

BIHAR STATE HIGHWAYS PROJECT
BID DOCUMENT
FOR
CIVIL WORKS

Improvement/Upgradation, Widening and Strengthening of Bettiah -Narkatiyaganj Road (SH-105) under Civil work Contract Package No. BSHP-III (Phase-2)/Pkg-5/SH-105

Invitation No. – BSHP-III(Phase-2) Pkg-5/SH-105/ 2021-22, Patna, Dated 17.02.2022



BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD.

(A Government of Bihar Undertaking)

RCD Central Mechanical Workshop Campus, (Near Patna Airport)

Sheikhpura, Patna-800 014, Bihar, India

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Fax: +91-612-2226723

ASIAN DEVELOPMENT BANK



Bihar State Road Development Corporation Ltd.

(A Government of Bihar Undertaking)

**Improvement/Upgradation, Widening and Strengthening of Bettiah -Narkatiyaganj Road
(SH-105) under Civil work Contract Package No. BSHP-III (Phase-2)/Pkg-5/SH-105**

Volume – IV : DRAWINGS

BIHAR STATE ROAD DEVELOPMENT CORPORATION LIMITED

**RCD Mech. Workshop Campus, Sheikhpura,
Patna - 800 014, BIHAR**

February, 2022

Not to be used as a Bid Document, Only for Reference

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LEGEND

No.	Descriptions	Symbol	No.	Discriptions	Symbol
1.	Proposed Centreline	---	34.	Bore well	
2.	Existing Centreline	---	35.	OFC pillar	
3.	Existing Carriageway	---	36.	Culverts	
4.	Drain/ Nalla	---	37.	Utility Ducts	
5.	Canal	---	38.	Minor Bridge	
6.	River	---	39.	Major Bridge	
7.	Water Flow Direction	---	40.	Sign Board	
8.	Kilometer stone		41.	Name Board	
9.	Hectometer Stone		42.	Guard Stone/Post	
10.	Right of way	--- ROW ---	43.	Electric Pole	
11.	Right of way Pillar		44.	Telephone Pole	
12.	TBM Pillar		45.	Street Light Pole	
13.	GPS Pillar		46.	HTP Tower	
14.	Residential Building		47.	Mobile Tower	
15.	Commercial Building		48.	Over Head Sign Pole	
16.	Hut		49.	Sewer Main Hole	
17.	Hand Pump		50.	Telephone Line	--- TP ---
18.	Water Supply		51.	Electric Line	--- EL ---
19.	Pond		52.	HT Line	--- HT ---
20.	Tap		53.	OFC cable	--- OFC ---
21.	Mosque		54.	Gas Pipe line	--- GAS ---
22.	Temple		55.	Sewer Line	
23.	Gurudwara		56.	Water Pipe Line	--- WP ---
24.	Church		57.	Petrol Pipe Line	--- PP ---
25.	Grave Yard		58.	GuardRail/Crash Barrier	--- □ ---
26.	Well		59.	Retaining Wall	--- RW ---
27.	Gate		60.	Fence Wire	--- X --- X ---
28.	Trees, Grith < 0.6 m		61.	Railway Track	+++++
29.	Trees, Grith > 0.6-1 m		62.	Proposed Right of way	---
30.	Trees, Grith > 1-1.5 m		63.	North	
31.	Trees, Grith > 1.5 m		64.	EMB	---
32.	Transformer				



Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp.

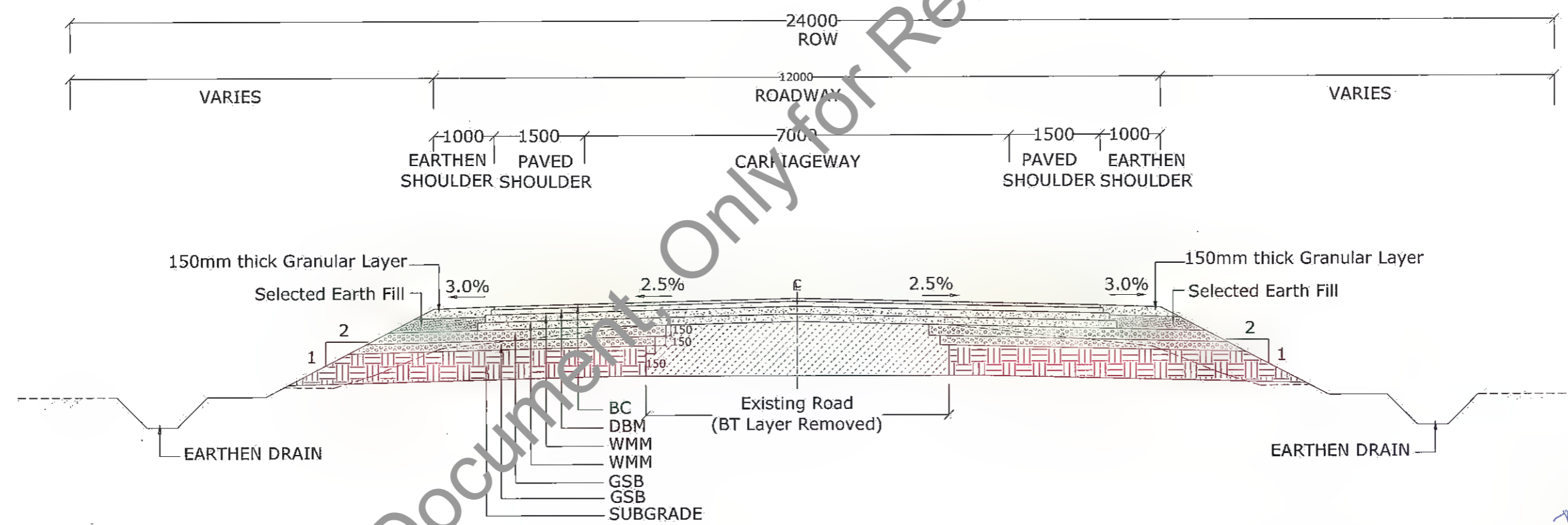
R. K. Ramani
 16-12-21
 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

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TYPICAL CROSS SECTION





TCS 1A 2-LANE CARRIAGEWAY WITH PAVED SHOULDER CONCENTRIC WIDENING
(RECONSTRUCTION WITH WMM)

(SCALE:- 1 : 50)

APPLICABLE CHAINAGES FOR TCS:-
(Lengths are in Meter)

From	To	Length	From	To	Length
520	2630	2110	17270	17470	200
3400	5090	1690	17560	17820	260
5530	7590	2060	25780	27680	1900
7960	8020	60	27780	28170	390
8110	11700	4590	28250	28450	200
13720	13840	320	28450	29710	1260
13960	14180	220	29770	30040	270
16100	17000	300	30200	30370	170
			30370	30900	530
			31650	31730	80
			31870	32280	410
			32470	32770	300
			32930	33450	520

Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd., Muzaffarpur

K. Ranjan
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Dy. General Manager (Tech)
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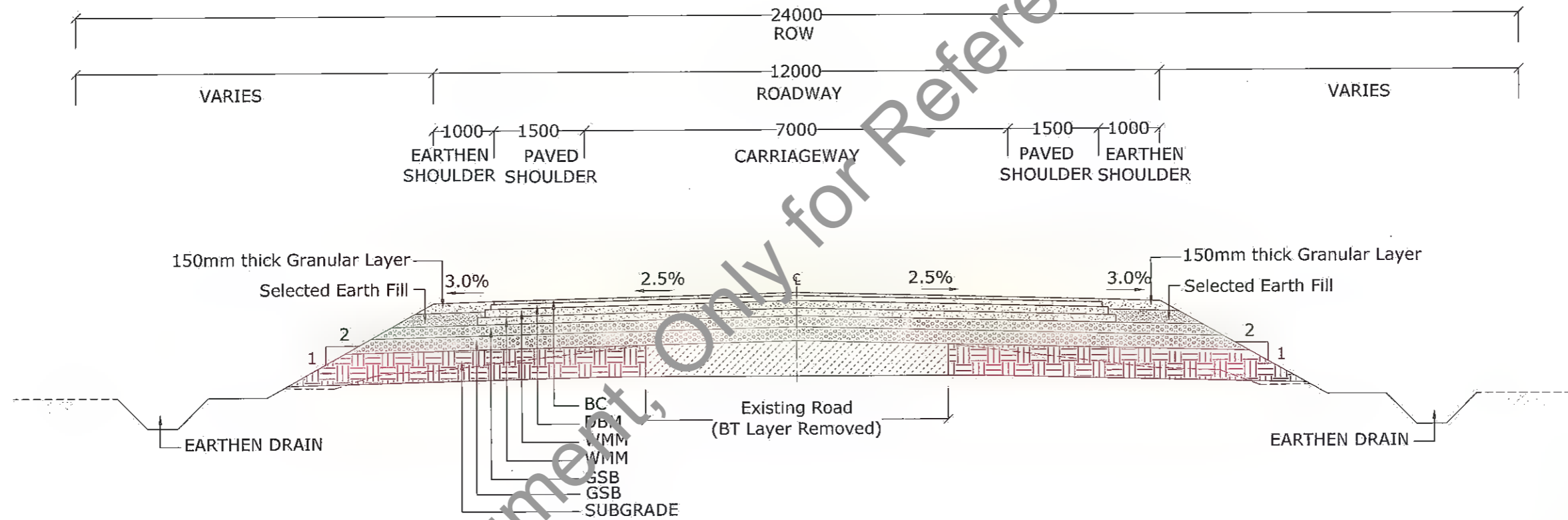
NOTES:-
1. ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE MENTIONED.

FOR WIDENING

S.No.	Pavement Layer.	Layer Thickness
1	BC	50
2	DBM	100
3	WMM	125
4	WMM	125
5	GSB	150
6	GSB	150
7	SUBGRADE	500



<table border="1"> <tr><td>REV.</td><td>DATE</td><td>DESCRIPTION OF REVISIONS</td></tr> <tr><td>R1</td><td>JULY 2021</td><td>MODIFIED DPR.</td></tr> <tr><td>R4</td><td>JULY 2019</td><td>DETAILED PROJECT REPORT</td></tr> <tr><td>R3</td><td>DEC 2018</td><td>CLIENT SUGGESTION INCORPORATED.</td></tr> <tr><td>R2</td><td>OCTOBER 2018</td><td>FINAL DPR</td></tr> </table>	REV.	DATE	DESCRIPTION OF REVISIONS	R1	JULY 2021	MODIFIED DPR.	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED.	R2	OCTOBER 2018	FINAL DPR	<p>CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DPR CONSULTANTS: 570 Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad-201014</p>	<table border="1"> <tr><td>DRAWN BY</td><td>ARJUN SINGH</td></tr> <tr><td>DESIGN BY</td><td>JITENDER KUMAR</td></tr> <tr><td>CHECKED BY</td><td>GEETA JINDAL</td></tr> <tr><td>SCALE</td><td>AS SHOWN</td></tr> </table>	DRAWN BY	ARJUN SINGH	DESIGN BY	JITENDER KUMAR	CHECKED BY	GEETA JINDAL	SCALE	AS SHOWN	<p>TITLE: TYPICAL CROSS SECTION TCS 1A 2-LANE CARRIAGEWAY WITH PAVED SHOULDER CONCENTRIC WIDENING (RECONSTRUCTION WITH WMM)</p> <p>DRAWING NO. STC/BR/BSRDC/BNB/TCS/01</p>	<p>A3</p>
REV.	DATE	DESCRIPTION OF REVISIONS																											
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R3	DEC 2018	CLIENT SUGGESTION INCORPORATED.																											
R2	OCTOBER 2018	FINAL DPR																											
DRAWN BY	ARJUN SINGH																												
DESIGN BY	JITENDER KUMAR																												
CHECKED BY	GEETA JINDAL																												
SCALE	AS SHOWN																												



TCS 1B 2-LANE CARRIAGEWAY WITH PAVED SHOULDER CONCENTRIC WIDENING
(RECONSTRUCTION WITH GSB)
(SCALE:- 1 : 50)

APPLICABLE CHAINAGES FOR TCS:-
(Lengths are in Meter)

From	To	Length	From	To	Length
2630	3400	770	17000	17110	110
5090	5530	440	17170	17270	100
7590	7710	120	17470	17560	90
7780	7960	180	17820	17880	60
8020	8110	90	20890	21130	240
12700	13260	560	21660	21810	150
13440	13520	80	22150	22230	80
13840	13960	120	22810	22970	160
14180	14250	70	23110	23160	50
			24690	25780	1090
			27680	27780	100
			28170	28250	80
			29710	29770	60
			30040	30200	160
			30900	31050	150
			31730	31870	140
			32280	32470	190
			32770	32930	160

NOTES:-
1. ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE MENTIONED.

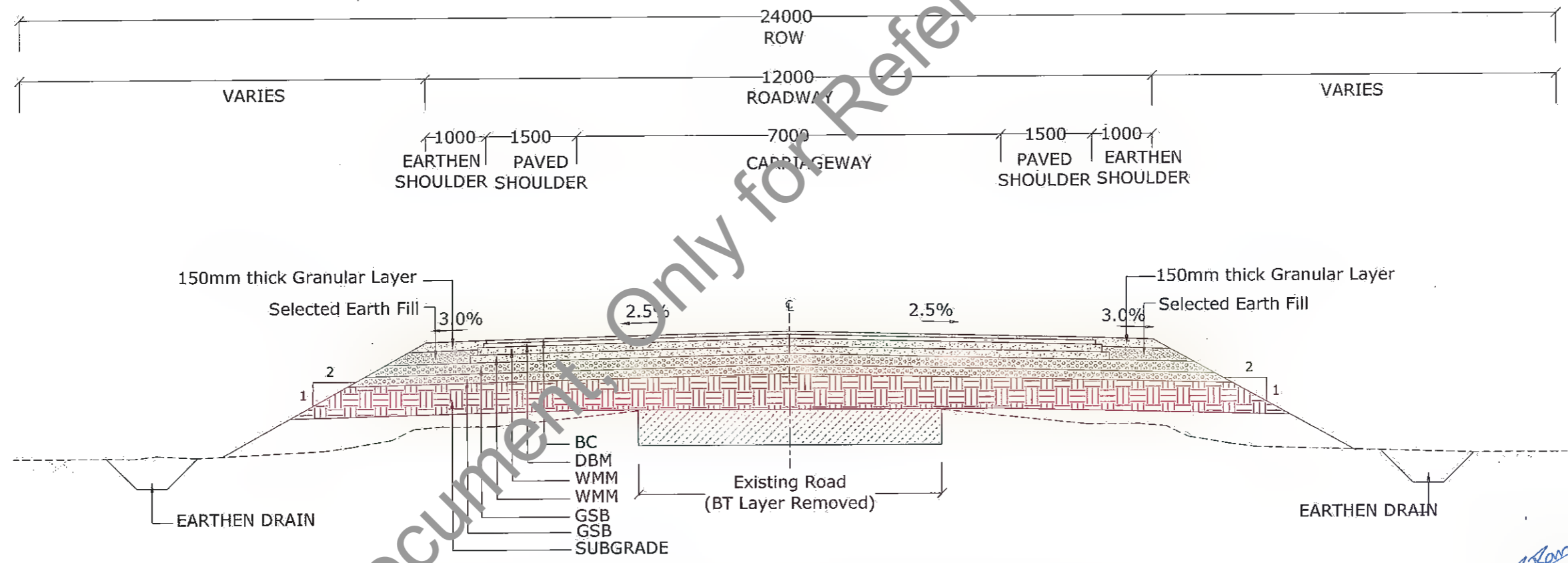
K. Rama
16/12/21
Dy. General Manager (Tech.)
Project Implementation Unit
Bihar State Road Dev. Corp. Ltd. Muzaffarpur

FOR WIDENING

S.No.	Pavement Layer.	Layer Thickness
1	BC	50
2	DBM	100
3	WMM	125
4	WMM	125
5	GSB	150
6	GSB	150
7	SUBGRADE	500



<table border="1"> <tr><td>REV.</td><td>DATE</td><td>DESCRIPTION OF REVISIONS</td></tr> <tr><td>R1</td><td>JULY 2021</td><td>MODIFIED DPR</td></tr> <tr><td>R4</td><td>JULY 2019</td><td>DETAILED PROJECT REPORT</td></tr> <tr><td>R3</td><td>DEC 2018</td><td>CLIENT SUGGESTION INCORPORATED</td></tr> <tr><td>R2</td><td>OCTOBER 2018</td><td>FINAL DPR</td></tr> </table>	REV.	DATE	DESCRIPTION OF REVISIONS	R1	JULY 2021	MODIFIED DPR	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED	R2	OCTOBER 2018	FINAL DPR	<p>CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DPR CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa (Khand-I), Indirapuram, Ghaziabad-201014</p>	<table border="1"> <tr><td>DRAWN BY</td><td>ARJUN SINGH</td></tr> <tr><td>DESIGN BY</td><td>JITENDER KUMAR</td></tr> <tr><td>CHECKED BY</td><td>GEETA JINDAL</td></tr> <tr><td>SCALE</td><td>AS SHOWN</td></tr> </table>	DRAWN BY	ARJUN SINGH	DESIGN BY	JITENDER KUMAR	CHECKED BY	GEETA JINDAL	SCALE	AS SHOWN	<p>TITLE: TYPICAL CROSS SECTION TCS 1B 2-LANE CARRIAGEWAY WITH PAVED SHOULDER CONCENTRIC WIDENING (RECONSTRUCTION WITH GSB)</p> <p>DRAWING NO. STC/BR/BSRDC/BNB/TCS/02</p>	<p>A3</p>
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DRAWN BY	ARJUN SINGH																												
DESIGN BY	JITENDER KUMAR																												
CHECKED BY	GEETA JINDAL																												
SCALE	AS SHOWN																												



TCS 1C 2-LANE CARRIAGEWAY WITH PAVED SHOULDER CONCENTRIC WIDENING RECONSTRUCTION WITH SUBGRADE (SCALE:- 1 : 50)

Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

Dy. General Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

1. ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE MENTIONED.

APPLICABLE CHAINAGES FOR TCS:-
(Lengths are in Meter)

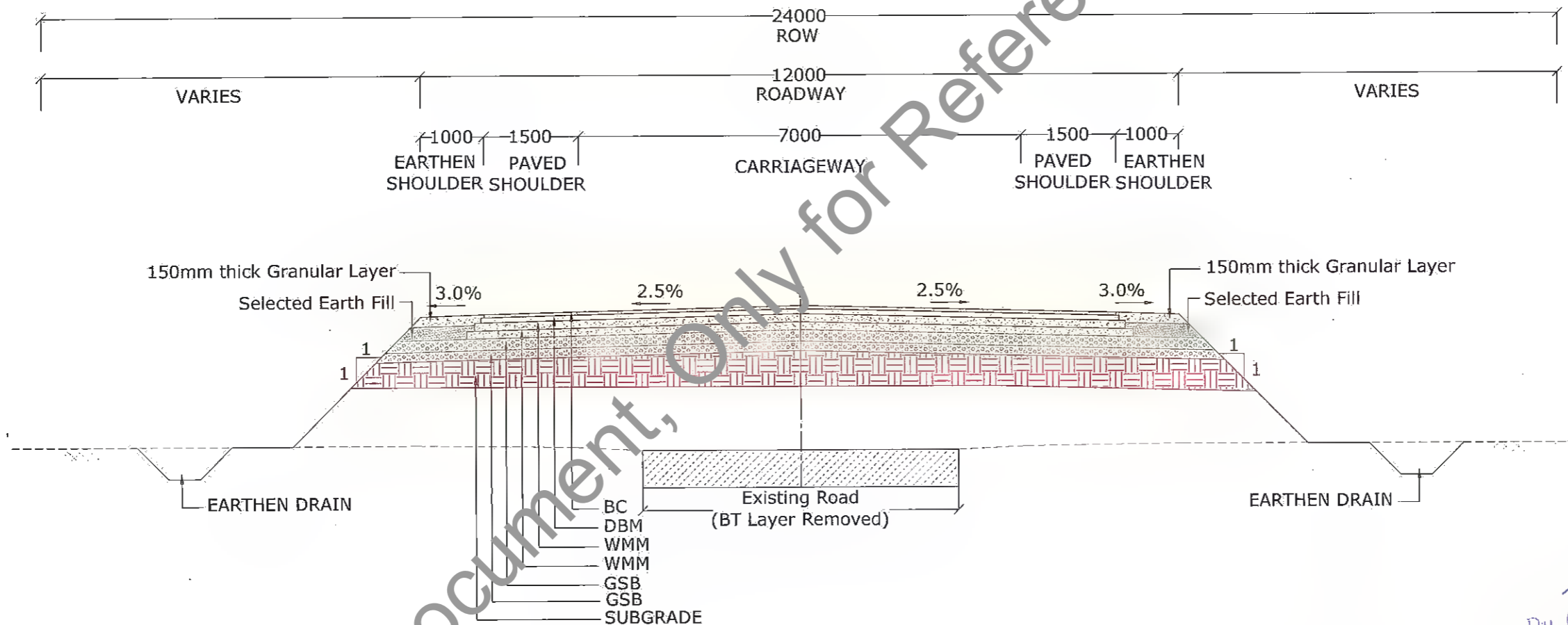
From	To	Length	From	To	Length
7110	7780	70 ✓	17110	17170	60 ✓
13160	13440	180 ✓	17880	18500	620 ✓
			20830	20890	60 ✓
			21130	21660	530 ✓
			21810	22150	340 ✓
			22230	22810	580 ✓
			22970	23110	140 ✓
			23160	24690	1530 ✓

FOR WIDENING

S.No.	Pavement Layer.	Layer Thickness
1	BC	50
2	DBM	100
3	WMM	125
4	WMM	125
5	GSB	150
6	GSB	150
7	SUBGRADE	500



<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION OF REVISIONS</th> </tr> <tr> <td>R2</td> <td>OCTOBER 2018</td> <td>FINAL DPR</td> </tr> <tr> <td>R3</td> <td>DEC 2018</td> <td>CLIENT SUGGESTION INCORPORATED</td> </tr> <tr> <td>R4</td> <td>JULY 2019</td> <td>DETAILED PROJECT REPORT</td> </tr> <tr> <td>R5</td> <td>JUNE 2021</td> <td>MODIFIED DPR</td> </tr> </table>	REV.	DATE	DESCRIPTION OF REVISIONS	R2	OCTOBER 2018	FINAL DPR	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED	R4	JULY 2019	DETAILED PROJECT REPORT	R5	JUNE 2021	MODIFIED DPR	<p>CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DPR CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad-201014</p>	<table border="1"> <tr> <td>DRAWN BY</td> <td>ARIJUN SINGH</td> </tr> <tr> <td>DESIGN BY</td> <td>JITENDER KUMAR</td> </tr> <tr> <td>CHECKED BY</td> <td>GEETA JINDAL</td> </tr> <tr> <td>SCALE</td> <td>AS SHOWN</td> </tr> </table>	DRAWN BY	ARIJUN SINGH	DESIGN BY	JITENDER KUMAR	CHECKED BY	GEETA JINDAL	SCALE	AS SHOWN	<p>TITLE: TYPICAL CROSS SECTION TCS 1C 2-LANE CARRIAGEWAY WITH PAVED SHOULDER CONCENTRIC WIDENING (RECONSTRUCTION WITH SUBGRADE)</p> <p>DRAWING NO. STC/BR/BSRDC/BNB/TCS/03</p>
REV.	DATE	DESCRIPTION OF REVISIONS																										
R2	OCTOBER 2018	FINAL DPR																										
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SCALE	AS SHOWN																											



TCS 1D 2-LANE CARRIAGEWAY WITH PAVED SHOULDER CONCENTRIC WIDENING
(RECONSTRUCTION WITH SUBGRADE)
(SCALE:- 1 : 50)

K. Kamesh
16-12-21
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

NOTES:-
1. ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE MENTIONED.

APPLICABLE CHAINAGES FOR TCS:-
(Lengths are in Meter)

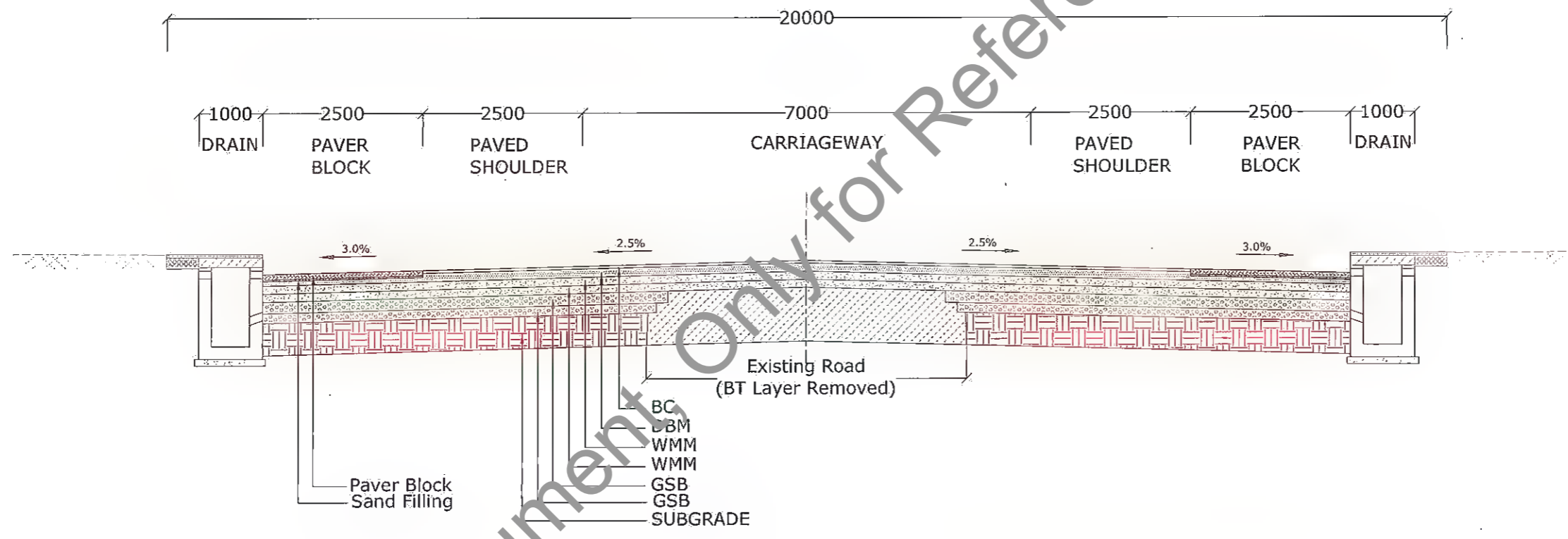
From	To	Length
19500	20830	2330

FOR WIDENING

S.No.	Pavement Layer.	Layer Thickness
1	BC	50
2	DBM	100
3	WMM	125
4	WMM	125
5	GSB	150
6	GSB	150
7	SUBGRADE	500



<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION OF REVISIONS</th> </tr> </thead> <tbody> <tr> <td>R1</td> <td>JULY 2021</td> <td>MODIFIED DPR</td> </tr> <tr> <td>R4</td> <td>JULY 2019</td> <td>DETAILED PROJECT REPORT</td> </tr> <tr> <td>R3</td> <td>DEC 2018</td> <td>CLIENT SUGGESTION INCORPORATED</td> </tr> <tr> <td>R2</td> <td>OCTOBER 2018</td> <td>FINAL DPR</td> </tr> </tbody> </table>	REV.	DATE	DESCRIPTION OF REVISIONS	R1	JULY 2021	MODIFIED DPR	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED	R2	OCTOBER 2018	FINAL DPR	<p>CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DPR CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad-201014</p>	<p>DRAWN BY: ARJUN SINGH DESIGN BY: JITENDER KUMAR CHECKED BY: GEETA JINDAL SCALE: AS SHOWN</p>	<p>TITLE: TYPICAL CROSS SECTION TCS 1D 2-LANE CARRIAGEWAY WITH PAVED SHOULDER CONCENTRIC WIDENING (RECONSTRUCTION WITH SUBGRADE)</p> <p>DRAWING NO. STC/BR/BSRDC/BNB/TCS/ 04</p>	<p>A3</p>
REV.	DATE	DESCRIPTION OF REVISIONS																			
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R2	OCTOBER 2018	FINAL DPR																			



TCS 4A 2-LANE CARRIAGEWAY WITH PAVER BLOCK CONCENTRIC WIDENING
 BUILT-UP AREA (RECONSTRUCTION WITH WMM)
 (SCALE:- 1 : 50)

NOTES:-
 1. ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE MENTIONED.

APPLICABLE CHAINAGES FOR TCS:-
 (Lengths are in Meter)

From	To	Length	From	To	Length
0	520	520	31120	31650	530
			33450	33700	250


FOR WIDENING

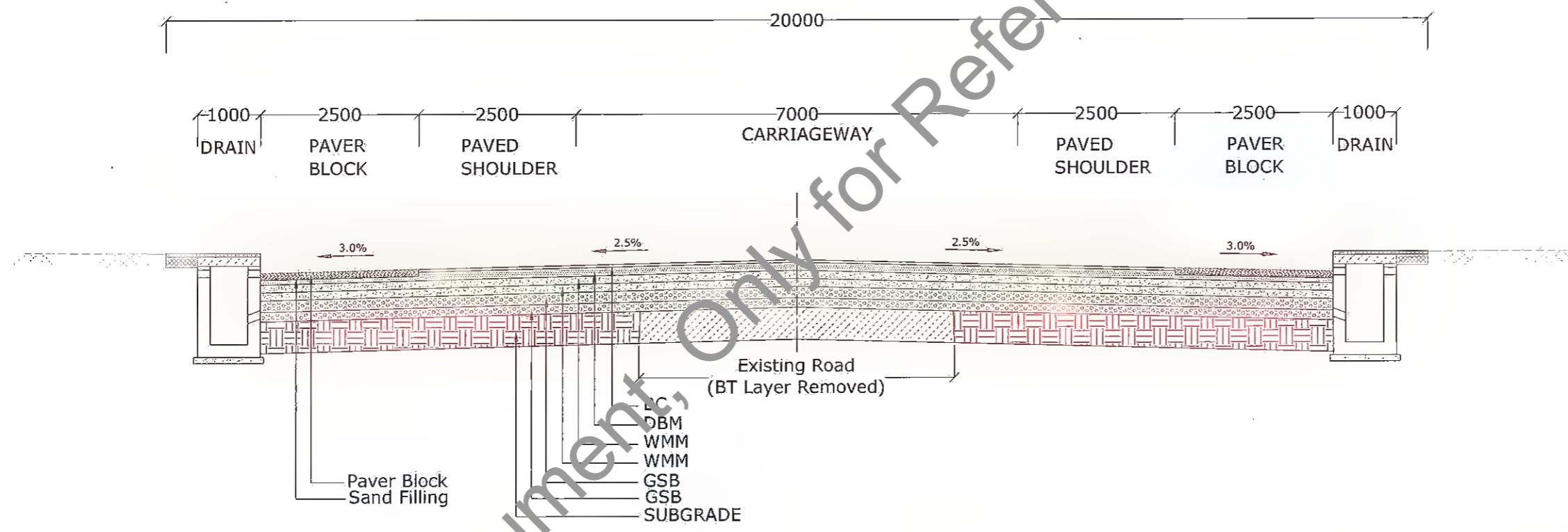
S.No.	Pavement Layer.	Layer Thickness
1	BC	50
2	DBM	100
3	WMM	125
4	WMM	125
5	GSB	150
6	GSB	150
7	SUBGRADE	500



K. Rama
 16-12-21
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

K. Rama
 16-12-21
 Dy. General Manager (Tech)
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 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

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REV.	DATE	DESCRIPTION OF REVISIONS																										
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DRAWN BY	ARIJUN SINGH																											
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CHECKED BY	GEETA JINDAL																											
SCALE	AS SHOWN																											



TCS 4B 2-LANE CARRIAGEWAY WITH PAVER BLOCK CONCENTRIC WIDENING
 BUILT-UP AREA (RECONSTRUCTION WITH GSB)
 (SCALE:- 1 : 50)

K. Ramas
 16-12-21
 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

A
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

NOTES:
 1. ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE MENTIONED.


APPLICABLE CHANGES FOR TCS:-
 (Lengths are in Meter)

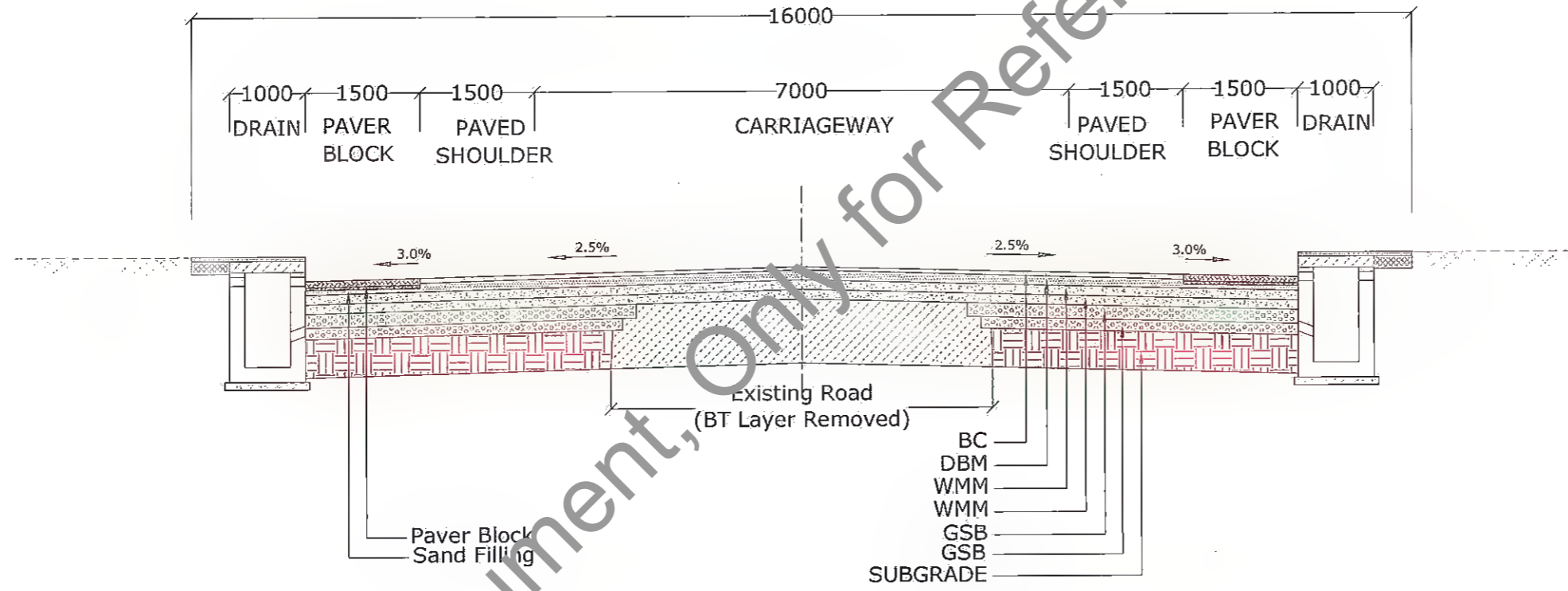
From	To	Length
31050	31120	70
33700	33760	60
34970	35700	730

FOR WIDENING

S.No.	Pavement Layer.	Layer Thickness
1	BC	50
2	DBM	100
3	WMM	125
4	WMM	125
5	GSB	150
6	GSB	150
7	SUBGRADE	500



<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION OF REVISIONS</th> </tr> <tr> <td>R5</td> <td>JULY 2021</td> <td>MODIFIED DPR</td> </tr> <tr> <td>R4</td> <td>JULY 2019</td> <td>DETAILED PROJECT REPORT</td> </tr> <tr> <td>R3</td> <td>DEC 2018</td> <td>CLIENT SUGGESTION INCORPORATED</td> </tr> <tr> <td>R2</td> <td>OCTOBER 2018</td> <td>FINAL DPR</td> </tr> </table>	REV.	DATE	DESCRIPTION OF REVISIONS	R5	JULY 2021	MODIFIED DPR	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED	R2	OCTOBER 2018	FINAL DPR	<p>CLIENT:  BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DPR CONSULTANTS: 570 Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghazilabad-201014</p>	<p>DRAWN BY: ARIJUN SINGH DESIGN BY: JITENDER KUMAR CHECKED BY: GEETA JINDAL SCALE: AS SHOWN.</p>	<p>TITLE: TYPICAL CROSS SECTION TCS 4B 2-LANE CARRIAGEWAY WITH PAVER BLOCK CONCENTRIC WIDENING BUILT-UP AREA (RECONSTRUCTION WITH GSB) DRAWING NO. STC/BR/BSRDC/BN/BTCS/06</p>	<p>A3</p>
REV.	DATE	DESCRIPTION OF REVISIONS																			
R5	JULY 2021	MODIFIED DPR																			
R4	JULY 2019	DETAILED PROJECT REPORT																			
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED																			
R2	OCTOBER 2018	FINAL DPR																			



TCS 5A 2-LANE CARRIAGEWAY WITH PAVER BLOCK CONCENTRIC WIDENING
 BUILT-UP AREA (RECONSTRUCTION WITH WMM)
 (SCALE:- 1 : 50)

K. Ranjan
 16-12-21
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

Ar
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

NOTES:-
 1. ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE MENTIONED.

APPLICABLE CHANGES FOR TCS:-
 (Lengths are in Meter)

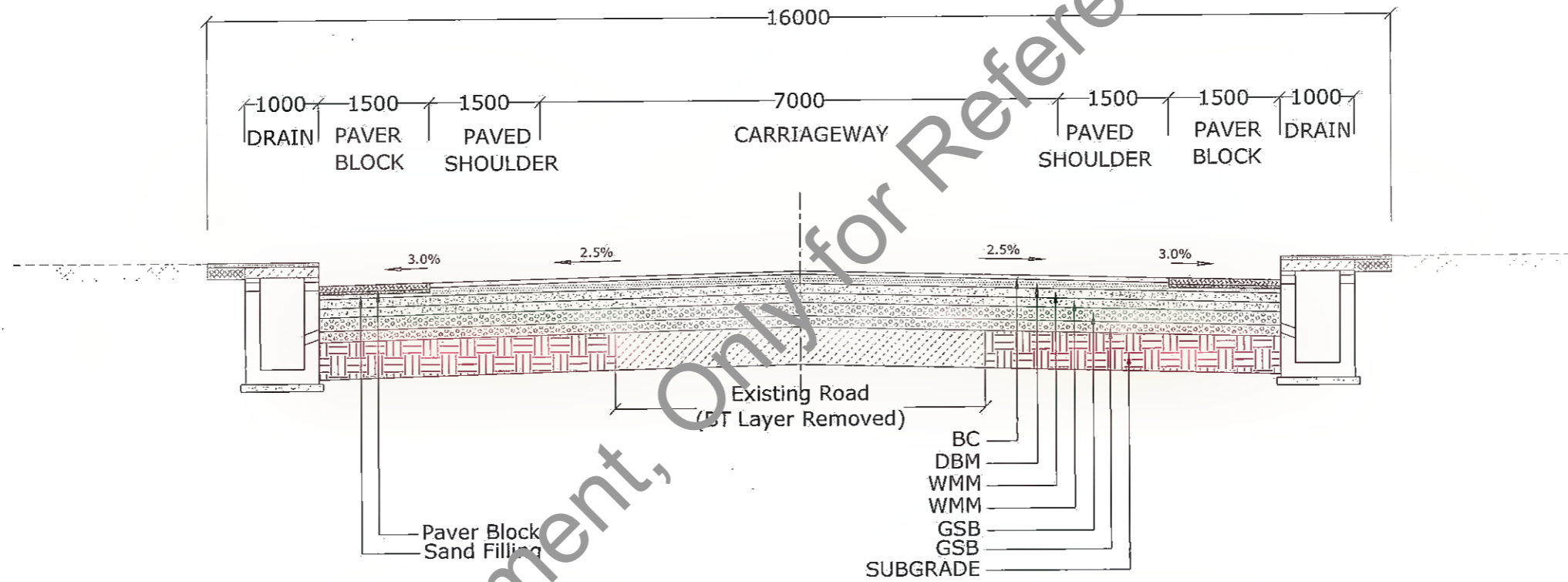
From	To	Length
14250	15040	790
15250	16500	1250

FOR WIDENING

S.No.	Pavement Layer.	Layer Thickness
1	BC	50
2	DBM	100
3	WMM	125
4	WMM	125
5	GSB	150
6	GSB	150
7	SUBGRADE	500



<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION OF REVISIONS</th> </tr> <tr> <td>R1</td> <td>JULY 2021</td> <td>MODIFIED DPR</td> </tr> <tr> <td>R4</td> <td>JULY 2019</td> <td>DETAILED PROJECT REPORT</td> </tr> <tr> <td>R3</td> <td>DEC 2018</td> <td>CLIENT SUGGESTION INCORPORATED</td> </tr> <tr> <td>R2</td> <td>OCTOBER 2018</td> <td>FINAL DPR</td> </tr> </table>	REV.	DATE	DESCRIPTION OF REVISIONS	R1	JULY 2021	MODIFIED DPR	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED	R2	OCTOBER 2018	FINAL DPR	<p>CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DPR CONSULTANTS: 570 Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad-201014</p>	<p>DRAWN BY: ARJUN SINGH DESIGN BY: JITENDER KUMAR CHECKED BY: GEETA JINDAL SCALE: AS SHOWN</p>	<p>TITLE: TYPICAL CROSS SECTION TCS 5A 2-LANE CARRIAGEWAY WITH PAVER BLOCK CONCENTRIC WIDENING BUILT-UP AREA (RECONSTRUCTION WITH WMM)</p> <p>DRAWING NO. STC/BR/BSRDC/BNB/TCS/07</p>	<p>A3</p>
REV.	DATE	DESCRIPTION OF REVISIONS																			
R1	JULY 2021	MODIFIED DPR																			
R4	JULY 2019	DETAILED PROJECT REPORT																			
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED																			
R2	OCTOBER 2018	FINAL DPR																			



TCS 5B 2-LANE CARRIAGEWAY WITH PAVER BLOCK CONCENTRIC WIDENING
 BUILT-UP AREA (RECONSTRUCTION WITH GSB)
 (SCALE:- 1 : 50)

R. Ramas
 16-12-21
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp Corp. Ltd. Muzaffarpur

Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp Corp. Ltd. Muzaffarpur

- NOTES:-
 1. ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE MENTIONED.

APPLICABLE CHANGES FOR TCS:-
 (Lengths are in Meter)

From	To	Length
11040	15250	210
16500	16700	200

FOR WIDENING

S.No.	Pavement Layer.	Layer Thickness
1	BC	50
2	DBM	100
3	WMM	125
4	WMM	125
5	GSB	150
6	GSB	150
7	SUBGRADE	500

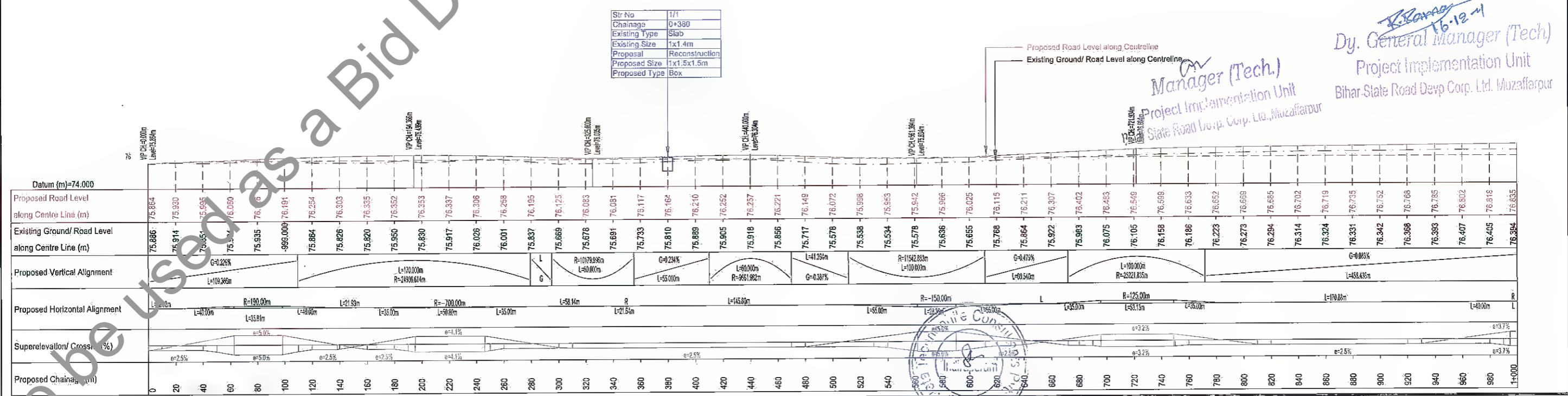
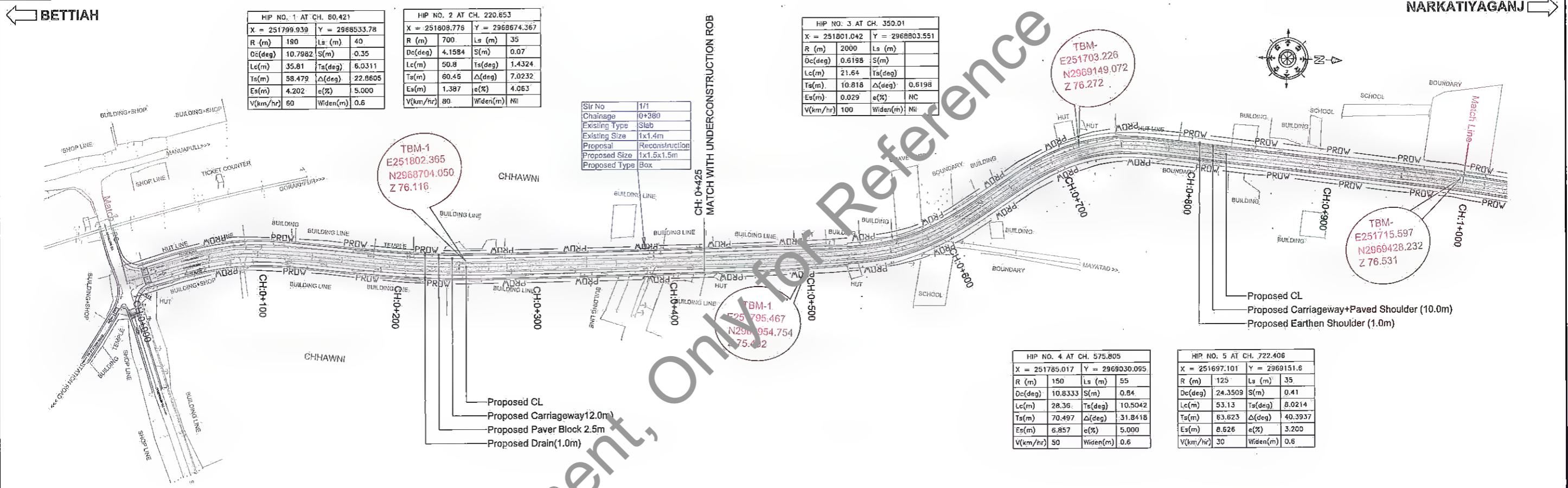


<table border="1"> <tr> <td>R1</td> <td>JULY 2021</td> <td>MODIFIED DPR</td> </tr> <tr> <td>R4</td> <td>JULY 2019</td> <td>DETAILED PROJECT REPORT</td> </tr> <tr> <td>R3</td> <td>DEC 2018</td> <td>CLIENT SUGGESTION INCORPORATED</td> </tr> <tr> <td>R2</td> <td>OCTOBER 2018</td> <td>FINAL DPR</td> </tr> <tr> <td>REV</td> <td>DATE</td> <td>DESCRIPTION OF REVISIONS</td> </tr> </table>	R1	JULY 2021	MODIFIED DPR	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED	R2	OCTOBER 2018	FINAL DPR	REV	DATE	DESCRIPTION OF REVISIONS	<p>CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DPR CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad-201014</p>	<table border="1"> <tr> <td>DRAWN BY</td> <td>ARIJUN SINGH</td> </tr> <tr> <td>DESIGN BY</td> <td>JITENDER KUMAR</td> </tr> <tr> <td>CHECKED BY</td> <td>GEETA JINDAL</td> </tr> <tr> <td>SCALE</td> <td>AS SHOWN</td> </tr> </table>	DRAWN BY	ARIJUN SINGH	DESIGN BY	JITENDER KUMAR	CHECKED BY	GEETA JINDAL	SCALE	AS SHOWN	<p>TITLE: TCS 5B 2-LANE CARRIAGEWAY WITH PAVER BLOCK CONCENTRIC WIDENING BUILT-UP AREA (RECONSTRUCTION WITH GSB)</p> <p>DRAWING NO. STC/BR/BSRDC/BNB/TCS/ 08</p>
R1	JULY 2021	MODIFIED DPR																										
R4	JULY 2019	DETAILED PROJECT REPORT																										
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED																										
R2	OCTOBER 2018	FINAL DPR																										
REV	DATE	DESCRIPTION OF REVISIONS																										
DRAWN BY	ARIJUN SINGH																											
DESIGN BY	JITENDER KUMAR																											
CHECKED BY	GEETA JINDAL																											
SCALE	AS SHOWN																											

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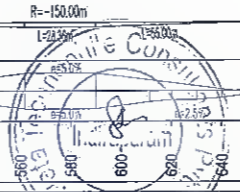
PLAN & PROFILE





<table border="1"> <tr><td>R5</td><td>JULY 2021</td><td>MODIFIED DPR</td></tr> <tr><td>R4</td><td>JULY 2019</td><td>DETAILED PROJECT REPORT</td></tr> <tr><td>R3</td><td>DEC 2018</td><td>CLIENT SUGGESTION INCORPORATED</td></tr> <tr><td>R2</td><td>OCTOBER 2018</td><td>FINAL DPR</td></tr> <tr><td>REV.</td><td>DATE</td><td>DESCRIPTION OF REVISIONS</td></tr> </table>	R5	JULY 2021	MODIFIED DPR	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED	R2	OCTOBER 2018	FINAL DPR	REV.	DATE	DESCRIPTION OF REVISIONS	<p>CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DPR CONSULTANTS: S7C Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014</p>	<table border="1"> <tr><td>DRAWN BY</td><td>ASHISH RAWAT</td></tr> <tr><td>DESIGN BY</td><td>JITENDER KUMAR</td></tr> <tr><td>CHECKED BY</td><td>GEETA JINDAL</td></tr> <tr><td>HORIZONTAL SCALE</td><td>1:2000</td></tr> <tr><td>VERTICAL SCALE</td><td>1:200</td></tr> </table>	DRAWN BY	ASHISH RAWAT	DESIGN BY	JITENDER KUMAR	CHECKED BY	GEETA JINDAL	HORIZONTAL SCALE	1:2000	VERTICAL SCALE	1:200	<p>TITLE: PLAN & PROFILE CH 0+000 TO 1+000</p> <p>DRAWING NO. STC/BR/BSRDC/BNB/PP/01</p>	<p>A3</p>
R5	JULY 2021	MODIFIED DPR																													
R4	JULY 2019	DETAILED PROJECT REPORT																													
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED																													
R2	OCTOBER 2018	FINAL DPR																													
REV.	DATE	DESCRIPTION OF REVISIONS																													
DRAWN BY	ASHISH RAWAT																														
DESIGN BY	JITENDER KUMAR																														
CHECKED BY	GEETA JINDAL																														
HORIZONTAL SCALE	1:2000																														
VERTICAL SCALE	1:200																														

R. K. Sharma
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur



HIP NO. 6 AT CH. 1005.397			
X = 251719.495	Y = 2969435.778		
R (m)	1200	Ls (m)	40
Dc(deg)	1.0074	S(m)	0.06
Lc(m)	21.1	Ts(deg)	0.9549
Ts(m)	50.558	Δ(deg)	2.9173
Es(m)	0.449	e(%)	3.704
V(km/hr)	100	Widen(m)	Nil

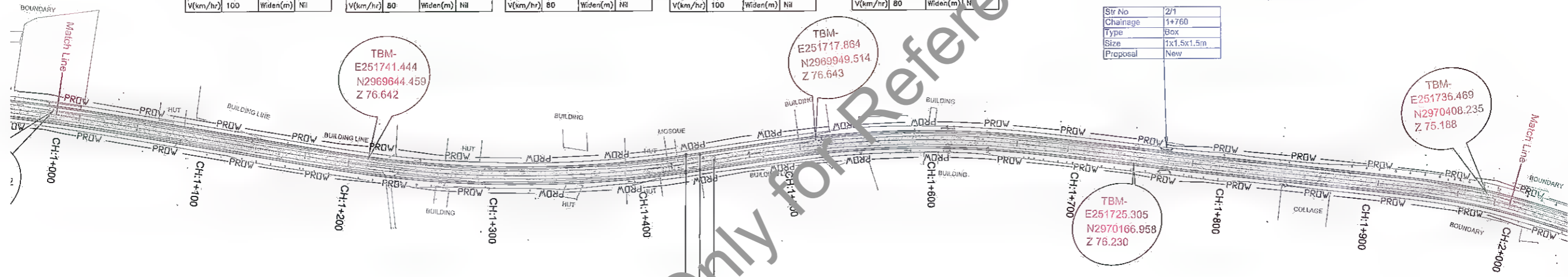
HIP NO. 7 AT CH. 1313.195			
X = 251759.397	Y = 2969742.049		
R (m)	800	Ls (m)	30
Dc(deg)	15.863	S(m)	0.05
Lc(m)	221.49	Ts(deg)	1.0743
Ts(m)	-141.798	Δ(deg)	18.0116
Es(m)	10.036	e(%)	3.556
V(km/hr)	80	Widen(m)	Nil

HIP NO. 8 AT CH. 1586.714			
X = 251708.844	Y = 2970012.476		
R (m)	700	Ls (m)	35
Dc(deg)	12.1691	S(m)	0.07
Lc(m)	148.67	Ts(deg)	1.4324
Ts(m)	109.876	Δ(deg)	15.0339
Es(m)	6.138	e(%)	4.083
V(km/hr)	80	Widen(m)	Nil

HIP NO. 9 AT CH. 1773.386			
X = 251723.353	Y = 2970199.105		
R (m)	2000	Ls (m)	
Dc(deg)	0.48	S(m)	
Lc(m)	16.76	Ts(deg)	
Ts(m)	8.378	Δ(deg)	0.48
Es(m)	0.018	e(%)	NG
V(km/hr)	100	Widen(m)	Nil

HIP NO. 10 AT CH. 1976.703			
X = 251737.426	Y = 2970402.12		
R (m)	400	Ls (m)	55
Dc(deg)	3.6956	S(m)	0.32
Lc(m)	25.8	Ts(deg)	3.9391
Ts(m)	68.086	Δ(deg)	11.5738
Es(m)	2.371	e(%)	5.000
V(km/hr)	80	Widen(m)	Nil

Str No	2/1
Chainage	1+760
Type	Box
Size	1x1.5x1.5m
Proposal	New

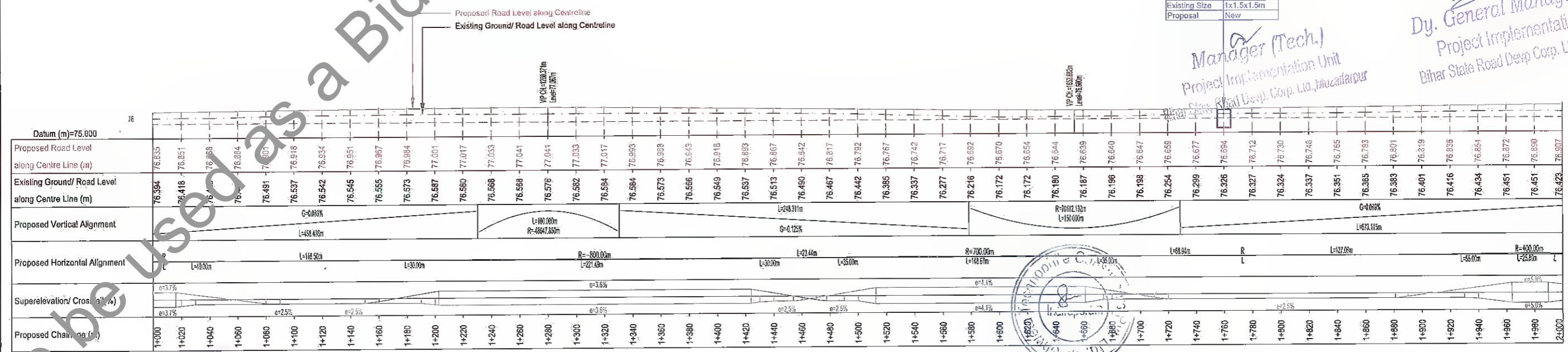


Proposed CL
 Proposed Carriageway+Paved Shoulder (10.0m)
 Proposed Earthen Shoulder (1.0m)

Str No	2/1
Chainage	1+760
Type	Box
Existing Size	1x1.5x1.5m
Proposal	New

Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur



REV.	DATE	DESCRIPTION OF REVISIONS
R1	JUN 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
S70 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad-201014

DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	1:2000
VERTICAL SCALE	1:200

TITLE:
PLAN & PROFILE
 CH: 1+000 to 2+000

DRAWING NO.
 STC/BR/BSRDC/BNB/PP/02

A3

HIP NO. 11 AT CH. 2201.145			
X	251797.622	Y	2970618.608
R (m)	700	La (m)	40
Dc(deg)	4.9507	S(m)	0.1
Lc(m)	60.48	Ts(deg)	1.537
Ta(m)	70.335	Δ(deg)	8.2247
Es(m)	1.907	e(%)	4.063
V(km/hr)	80	Widen(m)	Nil

HIP NO. 12 AT CH. 2459.497			
X	251830.525	Y	2970874.95
R (m)	2000	La (m)	
Dc(deg)	1.5408	S(m)	
Lc(m)	53.78	Ts(deg)	
Ta(m)	26.89	Δ(deg)	1.5406
Es(m)	0.181	e(%)	NC
V(km/hr)	100	Widen(m)	Nil

HIP NO. 13 AT CH. 2654.584			
X	251860.63	Y	2571068.191
R (m)	300	La (m)	75
Dc(deg)	3.4932	S(m)	0.78
Lc(m)	18.29	Ts(deg)	7.162
Ta(m)	84.628	Δ(deg)	17.8172
Es(m)	4.453	e(%)	5.000
V(km/hr)	80	Widen(m)	0.6

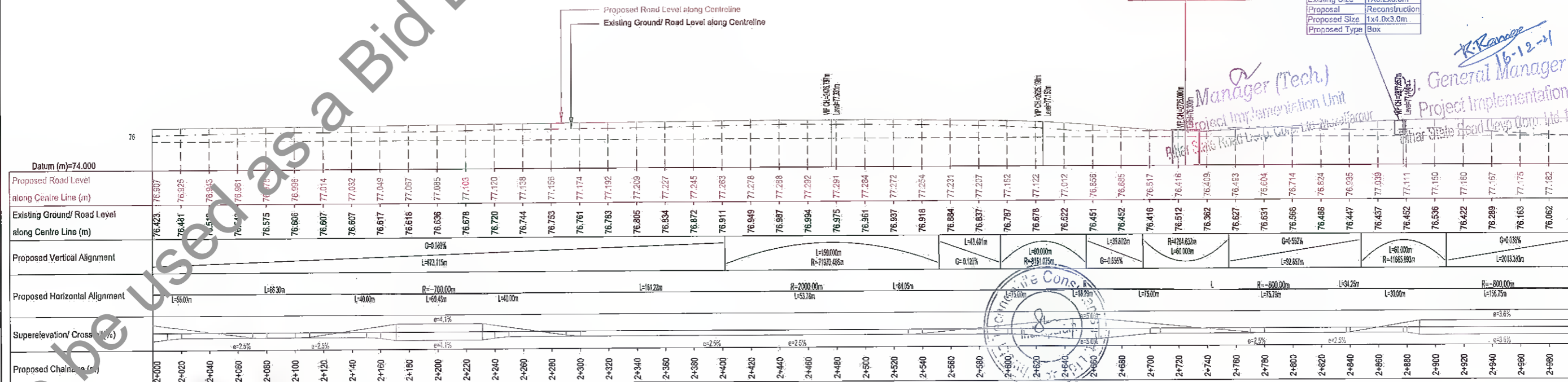
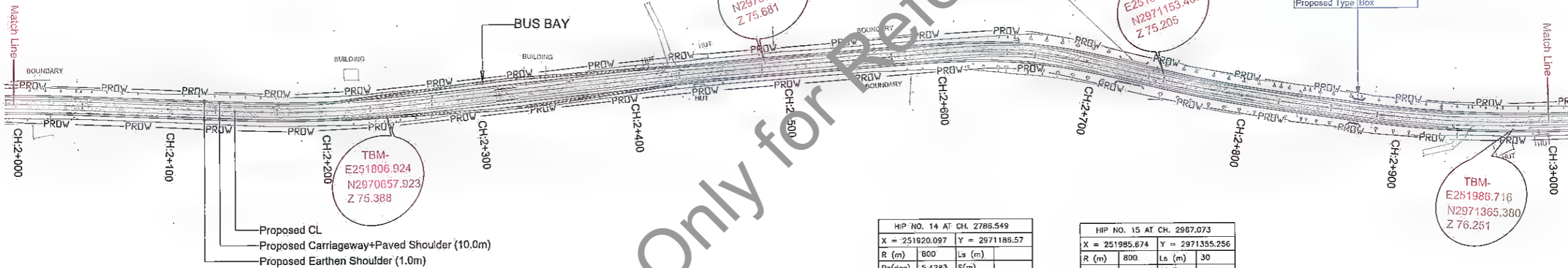
HIP NO. 14 AT CH. 2785.549			
X	251920.097	Y	2971186.57
R (m)	800	La (m)	
Dc(deg)	5.4283	S(m)	
Lc(m)	75.79	Ts(deg)	
Ta(m)	37.925	Δ(deg)	5.4283
Es(m)	0.898	e(%)	NC
V(km/hr)	65	Widen(m)	Nil

HIP NO. 15 AT CH. 2967.073			
X	251985.674	Y	2971355.256
R (m)	800	La (m)	30
Dc(deg)	11.2262	S(m)	0.05
Lc(m)	156.75	Ts(deg)	1.0743
Ta(m)	108.806	Δ(deg)	13.3748
Es(m)	5.531	e(%)	3.556
V(km/hr)	80	Widen(m)	Nil

Str No	3/2
Chainage	2+875
Existing Type	Slab
Existing Size	1X3.2x3.8m
Proposal	Reconstruction
Proposed Size	1x4.0x3.0m
Proposed Type	Box

Str No	3/1
Chainage	2+725
Proposal	Reconstruction
Proposed Type	Minor Bridge
Proposed Size	1x20m

Str No	3/2
Chainage	2+875
Existing Type	Slab
Existing Size	1X3.2x3.8m
Proposal	Reconstruction
Proposed Size	1x4.0x3.0m
Proposed Type	Box



REV.	DATE	DESCRIPTION OF REVISIONS
R1	JUN 2021	MODIFIED DPR
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R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
S7C Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghazilabad-201014

DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	1:2000
VERTICAL SCALE	1:200

TITLE:
 PLAN & PROFILE
 CH: 2+000 to 3+000

DRAWING NO.:
 STC/BR/BSRDC/BNB/PP/03

A3

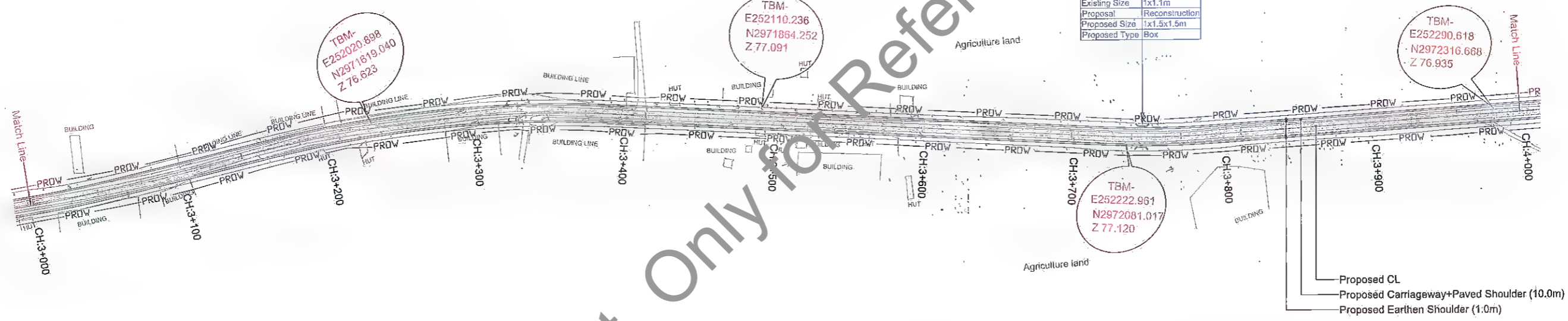
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K. Ranjan
 16-12-21
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Dev. Corp. Ltd. Muzaffarpur

HIP NO. 16 AT CH. 3280.124			
X =	252028.795	Y =	2971656.511
R (m)	800	La (m)	40
Dc(deg)	13.762	S(m)	0.08
Lc(m)	192.15	Ts(deg)	1:4324
Ts(m)	136.91	Δ(deg)	16.6268
Es(m)	8.577	e(%)	3.556
V(km/hr)	80	Widen(m)	Nil

HIP NO. 17 AT CH. 3757.009			
X =	252226.802	Y =	2972101.377
R (m)	600	La (m)	40
Dc(deg)	3.143	S(m)	0.11
Lc(m)	32.91	Ts(deg)	1:9099
Ts(m)	56.508	Δ(deg)	6.9627
Es(m)	1.219	e(%)	4.741
V(km/hr)	80	Widen(m)	Nil

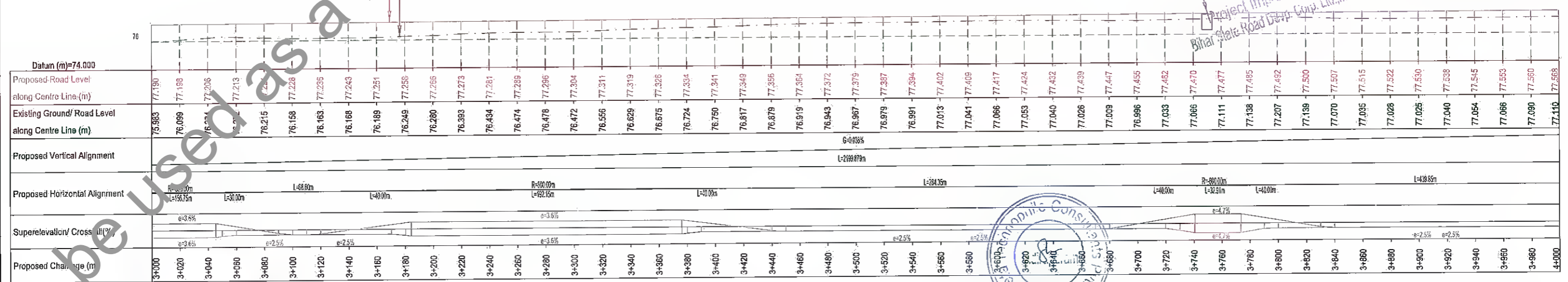
Str No	4/1
Chainage	3+750
Existing Type	Slab
Existing Size	1x1.1m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box



Proposed Road Level along Centreline
 Existing Ground/ Road Level along Centreline

Str No	4/1
Chainage	3+750
Existing Type	Slab
Existing Size	1x1.1m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box

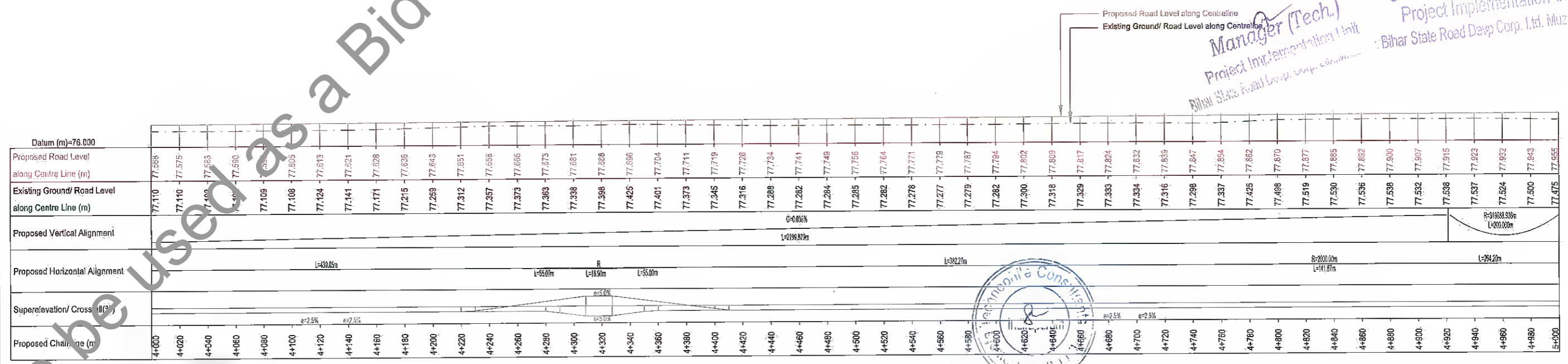
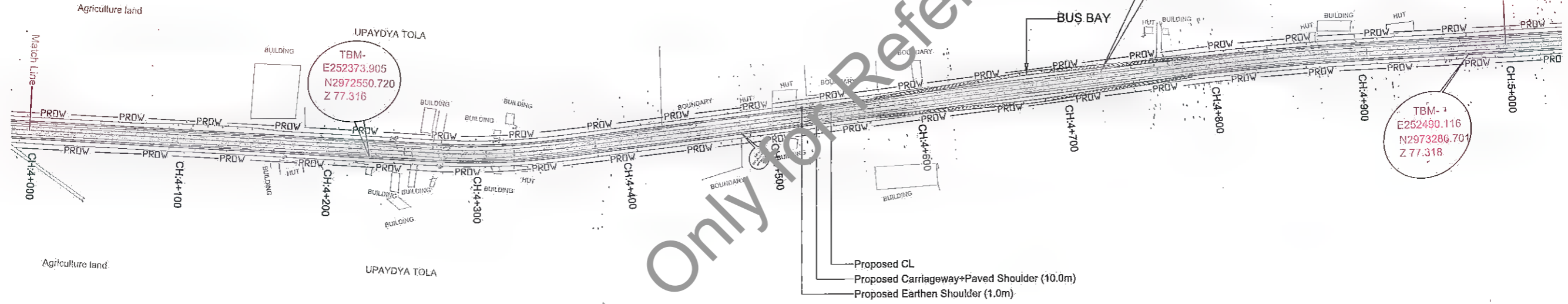
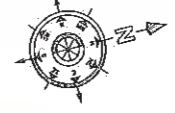
K. Kumar
 16-12-21
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Dev. Corp. Ltd. Muzaffarpur



R5	JULY 2021	MODIFIED DPR	CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)	PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)	DPR CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad-201014	DRAWN BY	ASHISH RAWAT	TITLE: PLAN & PROFILE CH:3+000 TO 4+000		
R4	JULY 2019	DETAILED PROJECT REPORT				DESIGN BY	JITENDER KUMAR			
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED				CHECKED BY	GEETA JINDAL			
R2	OCTOBER 2018	FINAL DPR				HORIZONTAL SCALE	1:2000		VERTICAL SCALE	1:200
REV.	DATE	DESCRIPTION OF REVISIONS.							DRAWING NO.	STC/BR/BSRDC/BNB/PP/04

HIP NO. 18 AT CH. 4317.765			
X =	252395.788	Y =	2972636.255
R (m)	400	La (m)	55
Dc(deg)	2.7075	S(m)	0.32
Lc(m)	18.9	To(deg)	3.9391
Ts(m)	64.582	Δ(deg)	10.5856
Es(m)	2.034	a(%)	5.000
V(km/hr)	80	Widen(m)	Nil


HIP NO. 19 AT CH. 4835.423			
X =	252458.423	Y =	2973150.772
R (m)	2000	La (m)	
Dc(deg)	4.0642	S(m)	
Lc(m)	141.87	To(deg)	4.0642
Ts(m)	70.964	Δ(deg)	NC
Es(m)	1.259	a(%)	NC
V(km/hr)	100	Widen(m)	Nil



K. Rao
16-12-21
Dy. General Manager (Tech.)
Project Implementation Unit
Bihar State Road Dev. Corp. Ltd. Muzaffarpur

Manager (Tech.)
Project Implementation Unit
Bihar State Road Dev. Corp. Ltd. Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R1	JULY 2019	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:

Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-1, Indirapuram,
 Ghaziabad-201014

DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	1:2000
VERTICAL SCALE	1:200

TITLE:
 PLAN & PROFILE
 CH: 4+000 to 5+000

DRAWING NO.
 STC/BR/BSRDC/BNB/PP/05

A3

Sir No	6/1
Chainage	5+200
Existing Type	Pipe
Existing Size	2x0.6m
Proposal	Reconstruction
Proposed Type	Box
Proposed Size	1x1.5x1.5m

TBM-
E252529.265
N2973590.510
Z 77.524

TBM-
E252643.037
N2973757.098
Z 77.702

TBM-
E252722.541
N2973994.320
Z 78.378

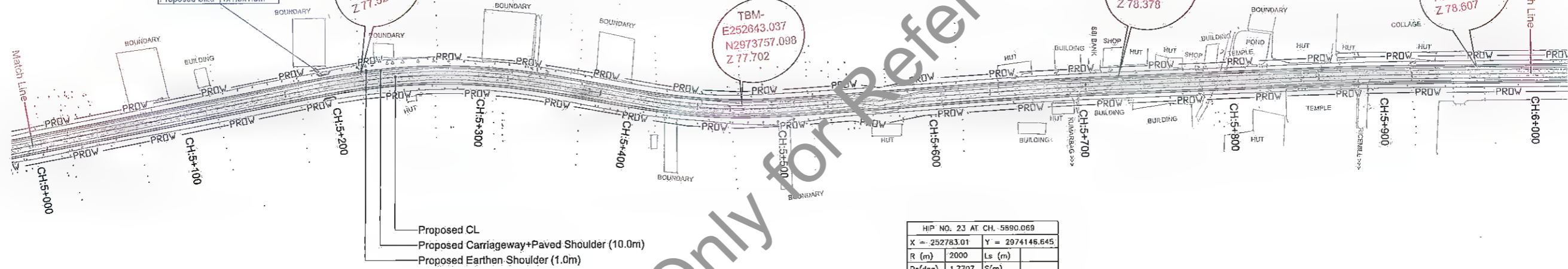
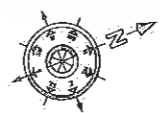
TBM-
E252805.669
N2974216.652
Z 78.607

HIP NO. 20 AT CH. 5272.444			
X	252642.08	Y	-2973580.183
R (m)	400	La (m)	55
Dc(deg)	13.4306	S(m)	0.32
Lc(m)	93.76	Ts(deg)	3.9391
Ts(m)	102.807	Δ(deg)	21.3087
Es(m)	7.342	e(%)	5.000
V(km/hr)	80	Widen(m)	Nil

HIP NO. 21 AT CH. 5457.579			
X	252641.705	Y	-2973737.649
R (m)	350	La (m)	65
Dc(deg)	3.5316	S(m)	0.5
Lc(m)	21.57	Ts(deg)	-5.3203
Ts(m)	76.062	Δ(deg)	14.1723
Es(m)	3.198	e(%)	5.000
V(km/hr)	80	Widen(m)	Nil

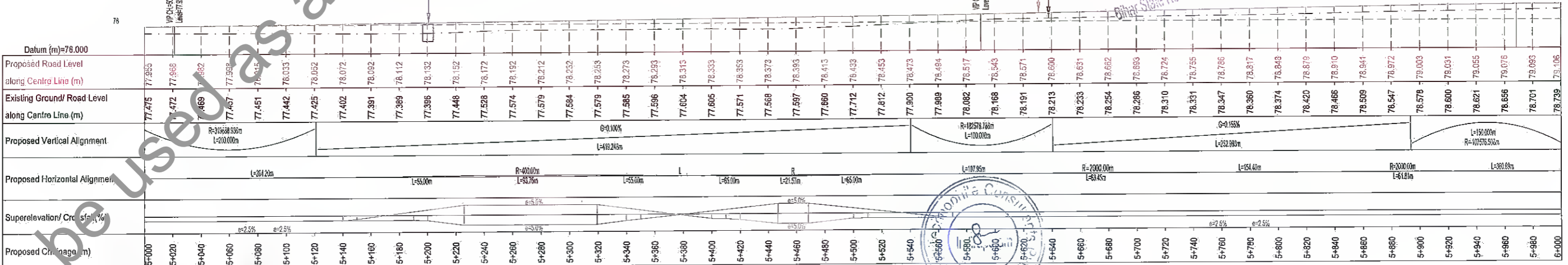
HIP NO. 22 AT CH. 5673.039			
X	252708.901	Y	-2973942.655
R (m)	2000	La (m)	
Dc(deg)	1.8177	S(m)	
Lc(m)	53.45	Ts(deg)	
Ts(m)	31.728	Δ(deg)	1.8177
Es(m)	0.252	e(%)	NC
V(km/hr)	100	Widen(m)	Nil

HIP NO. 23 AT CH. 5890.069			
X	-252783.01	Y	-2974146.645
R (m)	2000	La (m)	
Dc(deg)	1.7707	S(m)	
Lc(m)	61.81	Ts(deg)	
Ts(m)	30.908	Δ(deg)	1.7707
Es(m)	0.239	e(%)	NC
V(km/hr)	100	Widen(m)	Nil



Sir No	6/1
Chainage	5+200
Existing Type	Pipe
Existing Size	2x0.6m
Proposal	Reconstruction
Proposed Type	Box
Proposed Size	1x1.5x1.5m

K. Ran
16-12-21
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur



R3	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
(A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

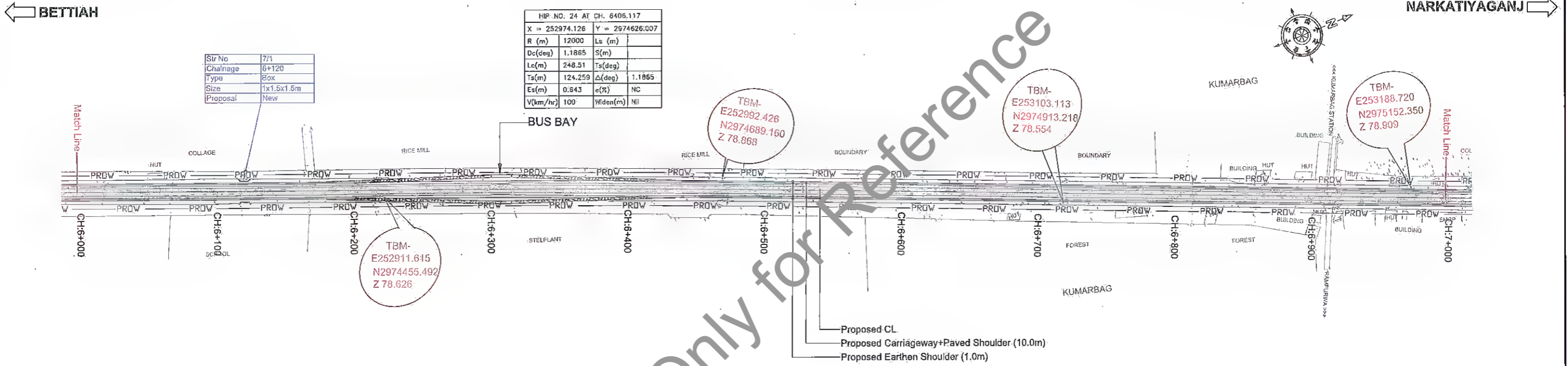
DPR CONSULTANTS:
Shweta Technophile Consultants Pvt. Ltd.
222-223,313, Rajhans Plaza,
Ahinsa Khand-I, Indrapuram,
Ghaziabad-201014

DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	1:2000
VERTICAL SCALE	1:200

TITLE:
PLAN & PROFILE
CH: 5+000 to 6+000

DRAWING NO.
STC/BR/BSRDC/BNB/PP/08

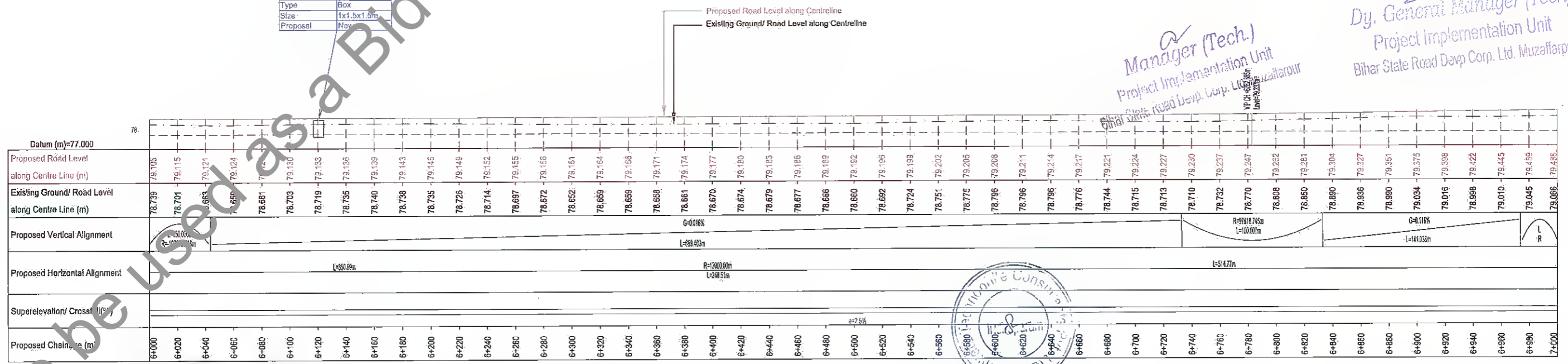
A3



Sir No	7/1
Chainage	6+120
Type	Box
Size	1x1.5x1.5m
Proposal	New

HIP NO. 24 AT CH. 6406.117			
X	= 252974.126	Y	= 2974626.007
R (m)	12000	LS (m)	
Dc(deg)	1.1865	S(m)	
Lc(m)	248.51	Ts(deg)	
Ts(m)	124.259	Δ(deg)	1.1865
Es(m)	0.843	e(%)	NC
V(km/hr)	100	Widen(m)	Nil

Sir No	7/1
Chainage	6+120
Type	Box
Size	1x1.5x1.5m
Proposal	New



Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R1	JULY 2021	MODIFIED DPR
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R2	OCTOBER 2018	FINAL DPR

CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
(A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
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DPR CONSULTANTS:
Shweta Technophile Consultants Pvt. Ltd.
222-223,313, Rajhans Plaza,
Ahinsa Khand-I, Indrapuram,
Ghazilabad-201014

DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	1:2000
VERTICAL SCALE	1:200

TITLE:
PLAN & PROFILE
CH: 6+000 TO 7+000

DRAWING NO.
STC/BR/BSRDC/BNB/PP/07

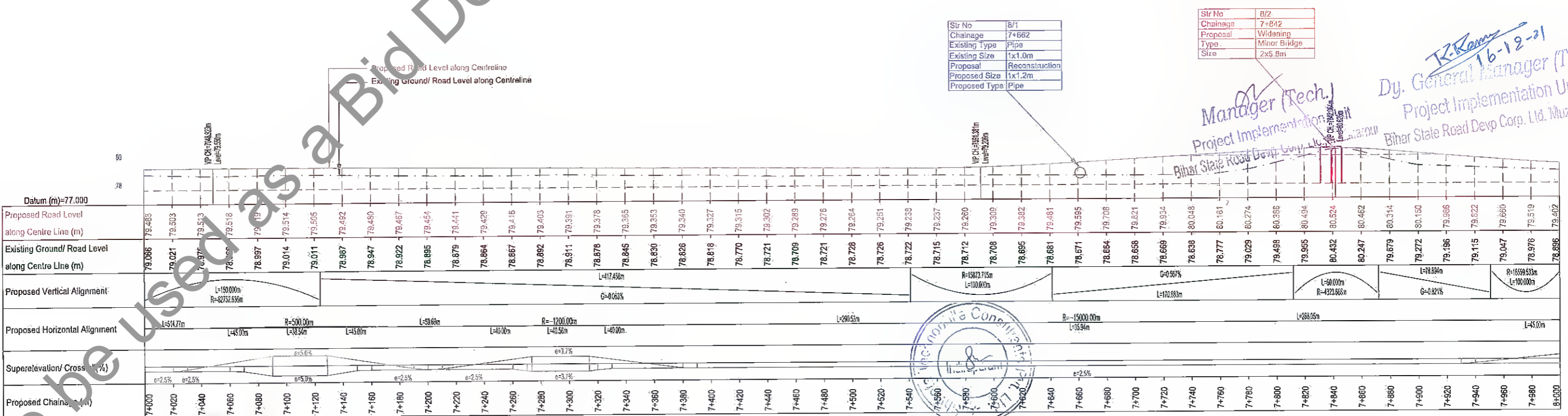
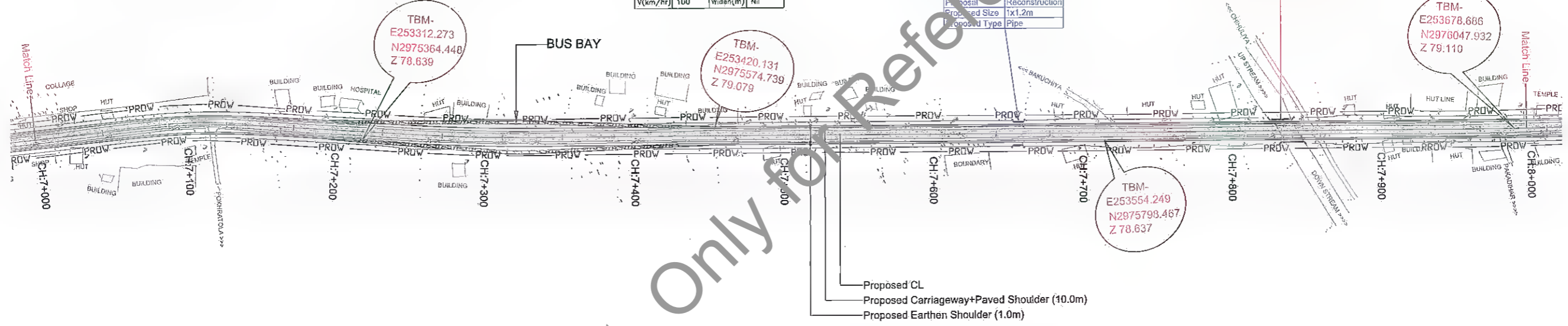
A3

HIP NO. 25 AT CH. 7109.415			
X = 253248.102	Y = 2975273.869		
R (m)	500	Ls (m)	45
Dc(deg)	4.416	S(m)	0.17
Lc(m)	38.54	Ts(deg)	2.5783
Ts(m)	64.379	Δ(deg)	9.5727
Es(m)	1.92	e(%)	5.000
V(km/hr)	80	Widen(m)	Nil

HIP NO. 26 AT CH. 7293.654			
X = 253347.151	Y = 2975429.369		
R (m)	1200	Ls (m)	40
Dc(deg)	1.9369	S(m)	0.06
Lc(m)	40.56	Ts(deg)	0.9549
Ts(m)	60.297	Δ(deg)	3.8454
Es(m)	0.736	e(%)	3.704
V(km/hr)	100	Widen(m)	Nil

HIP NO. 27 AT CH. 7662.438			
X = 253523.972	Y = 2975753.018		
R (m)	15000	Ls (m)	
Dc(deg)	0.1373	S(m)	
Lc(m)	35.94	Ts(deg)	0.1373
Ts(m)	17.97	Δ(deg)	0.1373
Es(m)	0.011	e(%)	NC
V(km/hr)	100	Widen(m)	Nil

Sir No	0/2
Chainage	7+842
Proposal	Widening
Type	Minor Bridge
Size	2x5.8m



Sir No	0/2
Chainage	7+662
Existing Type	Pipe
Existing Size	1x1.0m
Proposal	Reconstruction
Proposed Size	1x1.2m
Proposed Type	Pipe

Sir No	0/2
Chainage	7+842
Proposal	Widening
Type	Minor Bridge
Size	2x5.8m

T.R. Ram
16-12-21
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R1	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
(A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
S7C Shweta Technophile Consultants Pvt. Ltd.
222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014

DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	1:2000
VERTICAL SCALE	1:200

TITLE:
PLAN & PROFILE
CH: 7+000 TO 8+000

DRAWING NO.
STC/BR/BSRDC/BNB/PP/08

A3

BETTIAH ← → NARKATIYAGANJ

HIP NO. 29 AT CH. 8439.284

X = 253859.459	Y = 2976453.074
R (m) 255	La (m) 55
Dc(deg) 5.5907	S(m) 0.49
Lc(m) 24.88	Ts(deg) 6.179
Ts(m) 67.838	Δ(deg) 17.9486
Es(m) 3.656	e(%) 5.000
V(km/hr) 65	Widen(m) 0.6

HIP NO. 30 AT CH. 6585.241

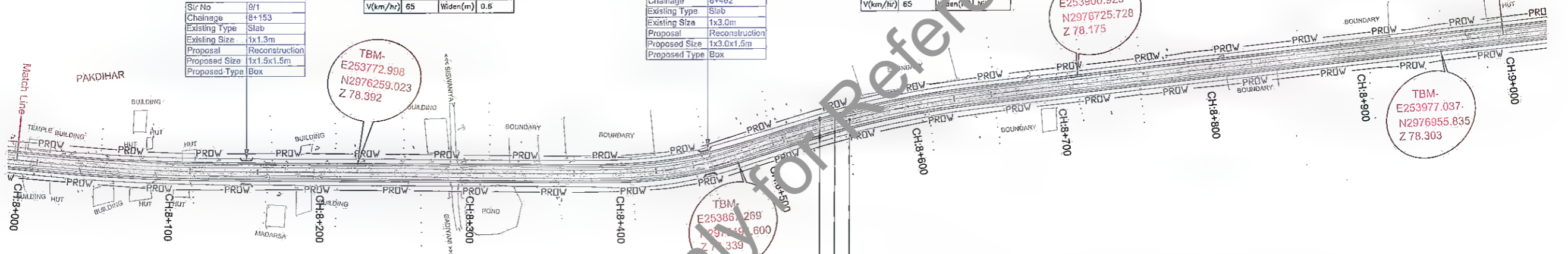
X = 253871.061	Y = 2976599.179
R (m) 600	La (m) 25
Dc(deg) -8.7991	S(m) 0.0
Lc(m) 92.14	Ts(deg) 1.337
Ts(m) 71.262	Δ(deg) 1.164
Es(m) 2.91	e(%) 0.100
V(km/hr) 65	Widen(m) 0.6

Sir No 9/1

Chainage	8+153
Existing Type	Slab
Existing Size	1x1.3m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box

Sir No 9/2

Chainage	8+462
Existing Type	Slab
Existing Size	1x3.0m
Proposal	Reconstruction
Proposed Size	1x3.0x1.5m
Proposed Type	Box



HIP NO. 28 AT CH. 6064.546

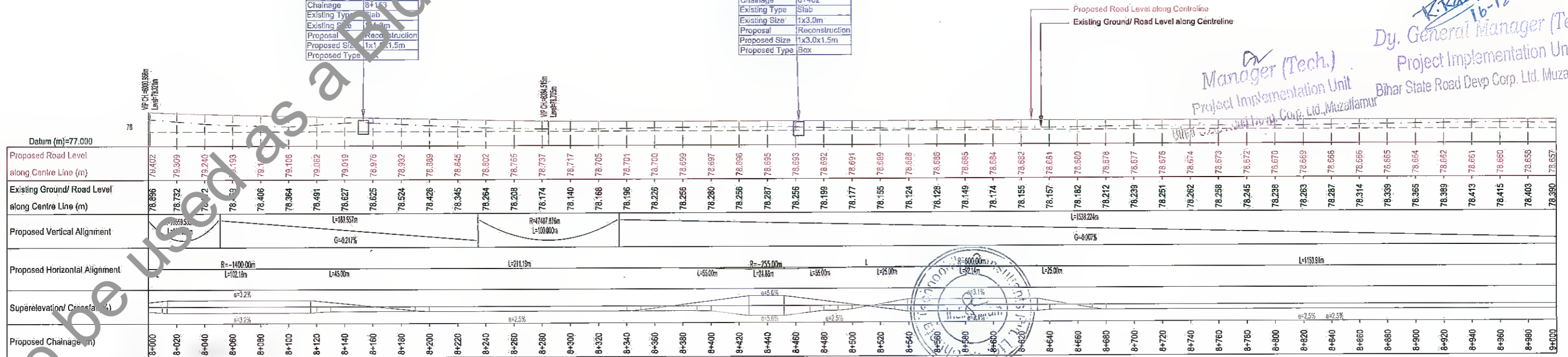
X = 253715.949	Y = 2976106.419
R (m) 1400	La (m) 45
Dc(deg) 4.1816	S(m) 0.06
Lc(m) 102.18	Ts(deg) 0.9208
Ts(m) 96.159	Δ(deg) 6.0233
Es(m) 1.996	e(%) 3.175
V(km/hr) 100	Widen(m) Nil

Sir No 9/4

Chainage	8+153
Existing Type	Slab
Existing Size	1x1.3m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box

Sir No 9/2

Chainage	8+462
Existing Type	Slab
Existing Size	1x3.0m
Proposal	Reconstruction
Proposed Size	1x3.0x1.5m
Proposed Type	Box



R. Ramakrishna
16-12-21
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muzaffarpur

R5	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
(A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
S70 Shweta Technophile Consultants Pvt. Ltd.
222-223,313, Rajhans Plaza,
Ahinsa Khand-I, Indirapuram,
Ghaziabad-201014

DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	1:2000
VERTICAL SCALE	1:200

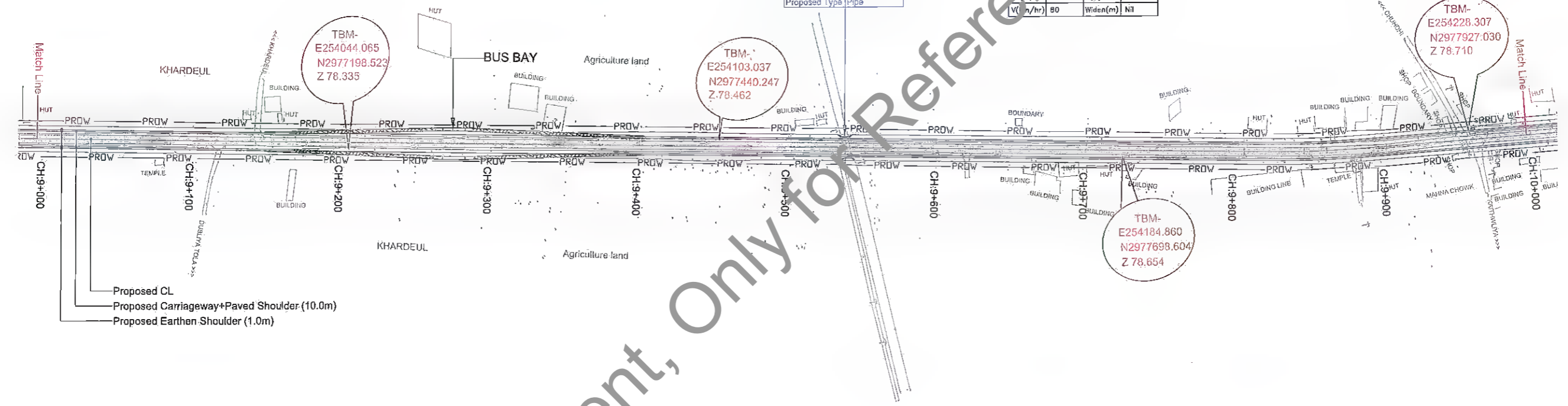
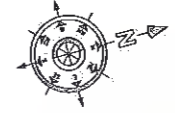
TITLE:
PLAN & PROFILE
CH: 8+000 to 9+000

DRAWING NO.
STC/BSRDC/BNB/PP/09

A3

Sir No	10/1
Chainage	9+543
Existing Type	Pipe
Existing Size	1x0.9m
Proposal	Reconstruction
Proposed Size	1x1.2m
Proposed Type	Pipe

HIP NO.	31	CF	9857.856
X	= 254216.05	Y	= 2977824.361
R (m)	600	Es (m)	40
De(deg)	4.581	S(m)	0.11
Lo(m)	15.27	Ts(deg)	1.9099
Ts (m)	7.658	Δ(deg)	5.2778
W (m)	0.747	a(%)	4.741
V(m/hr)	80	Widen(m)	Nil



Sir No	10/1
Chainage	9+543
Existing Type	Pipe
Existing Size	1x0.9m
Proposal	Reconstruction
Proposed Size	1x1.2m
Proposed Type	Pipe

R. Kumar
16-12-21
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Dev. Corp. Ltd. Muzaffarpur

Datum (m)=77.000	
Proposed Road Level along Centre Line (m)	78.657, 78.656, 78.654, 78.653, 78.650, 78.649, 78.647, 78.646, 78.645, 78.643, 78.642, 78.641, 78.639, 78.638, 78.637, 78.635, 78.634, 78.633, 78.631, 78.630, 78.629, 78.627, 78.626, 78.625, 78.623, 78.622, 78.621, 78.619, 78.618, 78.617, 78.615, 78.614, 78.613, 78.611, 78.610, 78.609, 78.607, 78.606, 78.604, 78.603, 78.602, 78.600, 78.599, 78.599, 78.610, 78.637, 78.678, 78.735, 78.805, 78.822
Existing Ground/ Road Level along Centre Line (m)	78.390, 78.361, 78.350, 78.350, 78.269, 78.251, 78.322, 78.383, 78.441, 78.474, 78.501, 78.465, 78.430, 78.383, 78.333, 78.294, 78.321, 78.342, 78.335, 78.329, 78.324, 78.322, 78.320, 78.301, 78.271, 78.244, 78.244, 78.242, 78.237, 78.231, 78.227, 78.228, 78.225, 78.229, 78.181, 78.158, 78.183, 78.206, 78.218, 78.225, 78.232, 78.210, 78.185, 78.167, 78.122, 78.095, 78.141, 78.185, 78.249, 78.333, 78.422
Proposed Vertical Alignment	L=158.22m, G=0.007%, R=2539.96m, L=100.00m, G=0.961%, L=87.9m
Proposed Horizontal Alignment	L=158.91m, L=40.0m, L=40.0m, L=201.28m
Superelevation/ Cross (%)	e=2.5%, e=2.5%, e=1.7%, e=2.5%, e=2.5%
Proposed Chainage (m)	9+000, 9+020, 9+040, 9+060, 9+080, 9+100, 9+120, 9+140, 9+160, 9+180, 9+200, 9+220, 9+240, 9+260, 9+280, 9+300, 9+320, 9+340, 9+360, 9+380, 9+400, 9+420, 9+440, 9+460, 9+480, 9+500, 9+520, 9+540, 9+560, 9+580, 9+600, 9+620, 9+640, 9+660, 9+680, 9+700, 9+720, 9+740, 9+760, 9+780, 9+800, 9+820, 9+840, 9+860, 9+880, 9+900, 9+920, 9+940, 9+960, 9+980, 10+000

RS	JULY 2019	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
(A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
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DPR CONSULTANTS:
S70 Shweta Technophile Consultants Pvt. Ltd.
222-223,313, Rajhans Plaza, Ahinsa Khand-1, Indrapuram, Ghazalabad-201014

DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR,
CHECKED BY	GEETA-JINDAL
HORIZONTAL SCALE	1:2000
VERTICAL SCALE	1:200

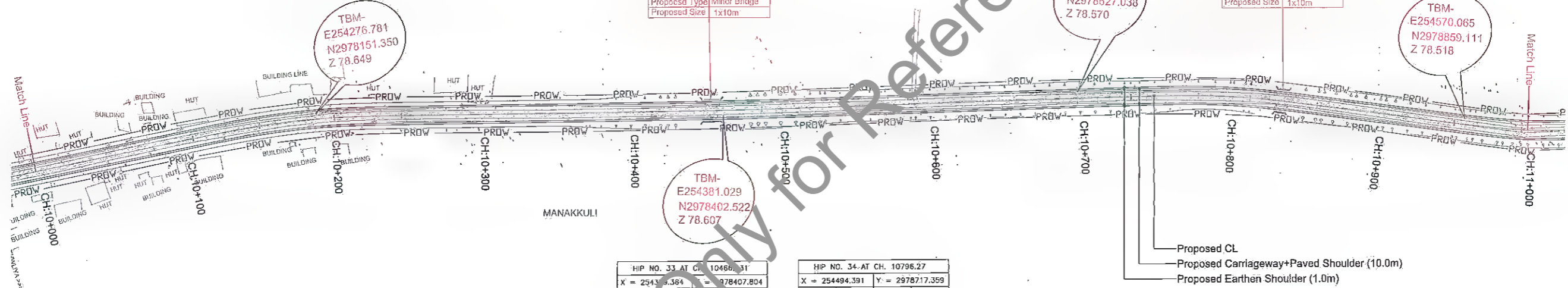
TITLE:
PLAN & PROFILE
CH: 9+000 to 10+000
DRAWING NO.
STC/BR/BSRDC/BNB/PP/10

BETTIAH ← NARKATIYAGANJ →

HIP NO. 32 AT CH. 10176.894			
X =	254273.95	Y =	2978136.209
R (m)	500	Ls (m)	45
Dc(deg)	5.7561	S(m)	-0.17
Lc(m)	50.23	Ts(deg)	2.5783
Ts(m)	70.275	Δ(deg)	10.9128
Ea(m)	2.447	e(%)	-5.000
V(km/hr)	80	Widen(m)	Nil

Sir No	11/1
Chainage	10+455
Proposal	Reconstruction
Proposed Type	Minor Bridge
Proposed Size	1x10m

Sir No	11/2
Chainage	10+835
Proposal	Reconstruction
Proposed Type	Minor Bridge
Proposed Size	1x10m



HIP NO. 33 AT CH. 10466.31			
X =	254333.364	Y =	2978407.804
R (m)	2500	Ls (m)	
Dc(deg)	1.77	S(m)	
Lc(m)	42.65	Ts(deg)	
Ts(m)	21.316	Δ(deg)	0.977
Ea(m)	0.091	e(%)	NC
V(km/hr)	80	Widen(m)	Nil

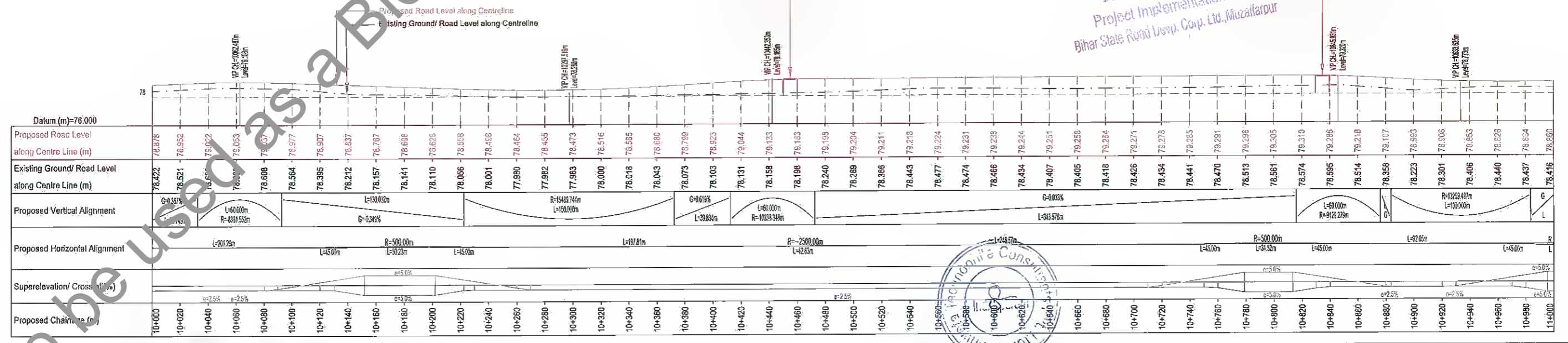
HIP NO. 34-AT CH. 10796.27			
X =	254494.391	Y =	2978717.359
R (m)	500	Ls (m)	45
Dc(deg)	3.9553	S(m)	0.17
Lc(m)	34.52	Ts(deg)	2.5783
Ts(m)	62.354	Δ(deg)	9.1119
Ea(m)	1.755	e(%)	5.000
V(km/hr)	80	Widen(m)	Nil

Sir No	11/1
Chainage	10+455
Proposal	Reconstruction
Proposed Type	Minor Bridge
Proposed Size	1x10m

Sir No	11/2
Chainage	10+835
Proposal	Reconstruction
Proposed Type	Minor Bridge
Proposed Size	1x10m

K. Kumar
16-12-21
Dy. General Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur



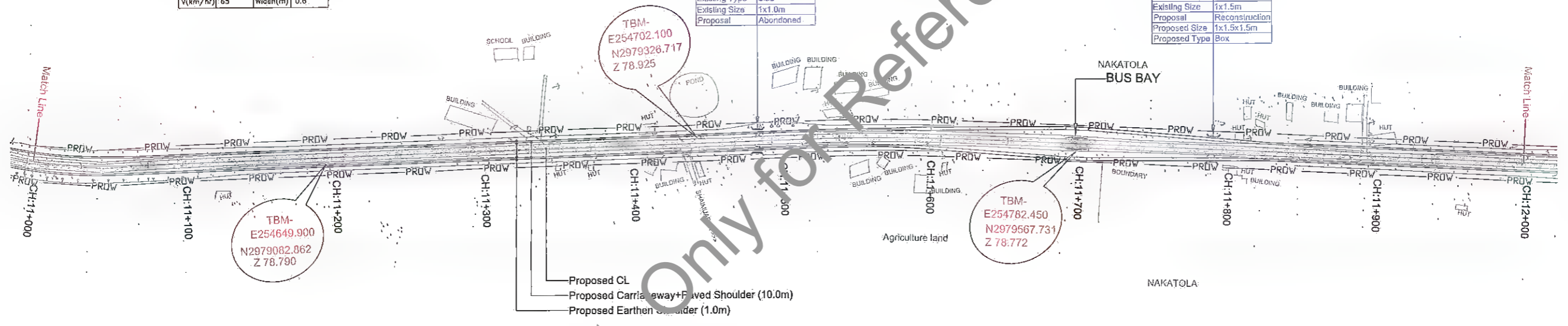
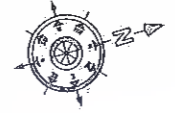
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REV.	DATE	DESCRIPTION OF REVISIONS																																	
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VERTICAL SCALE	1:200																																		
TITLE:	PLAN & PROFILE CH: 10+000 to 11+000																																		
DRAWING NO.	STC/BR/BSRDC/BNB/PP/11																																		

HIP NO. 35 AT CH. 11013.679			
X = 254601.623	Y = 2978906.919		
R (m)	300	Ls (m)	45
Dc(deg)	6.9132	S(m)	0.28
Lc(m)	36.2	Ts(deg)	4.2972
Ts(m)	63.382	Δ(deg)	15.5076
Es(m)	3.051	e(%)	5.000
V(km/hr)	65	Widen(m)	0.6

HIP NO. 36 AT CH. 11574.509			
X = 254737.271	Y = 2979451.424		
R (m)	1400	Ls (m)	45
Dc(deg)	2.783	S(m)	-0.06
Lc(m)	68	Ts(deg)	0.9208
Ts(m)	79.033	Δ(deg)	4.6240
Es(m)	1.201	e(%)	3.333
V(km/hr)	100	Widen(m)	0.6

Sir No	12/1
Chainage	11+486
Existing Type	Slab
Existing Size	1x1.0m
Proposal	Abandoned

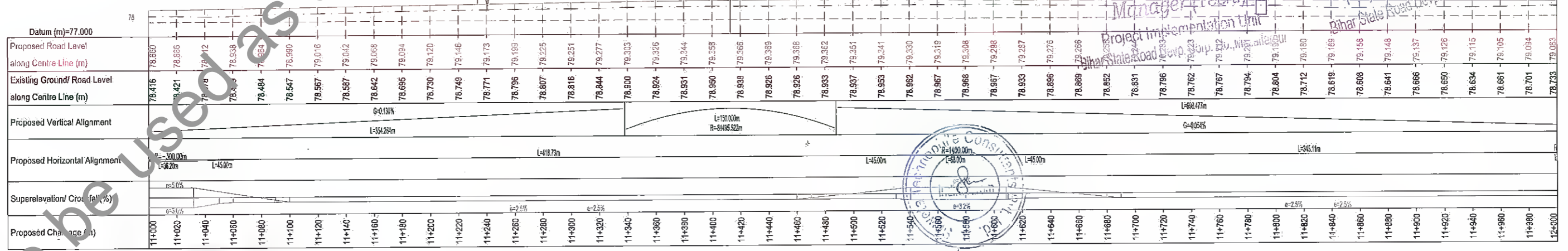
Sir No	12/2
Chainage	11+792
Existing Type	Slab
Existing Size	1x1.5m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box



Proposed Road Level along Centreline
Existing Ground/ Road Level along Centreline

Sir No	12/2
Chainage	11+792
Existing Type	Slab
Existing Size	1x1.5m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box

K. Kumar
16-12-21
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Dev. Corp. Ltd. Muzaffarpur



REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
(A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
STC Shweta Technophile Consultants Pvt. Ltd.
222-223,313, Rajhans Plaza,
Ahinsa Khand-I, Indrapuram,
Ghaziabad-201014

DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	1:2000
VERTICAL SCALE	1:200

TITLE:
PLAN & PROFILE
CH: 11+000 to 12+000

DRAWING NO. STC/BR/BSRDC/BNB/PP/12

A3

Sir No	13/1
Chainage	12+046
Existing Type	Slab
Existing Size	1x0.8m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box

HIP NO. 37 AT CH. 12020.17			
X = 254879.528	Y = 2979873.806		
R (m)	8000	La (m)	
De(deg)	0.3087	S(m)	
Lc(m)	43.1	Ta(deg)	
Ta(m)	21.549	Δ(deg)	0.3087
Es(m)	0.029	e(%)	NC
V(km/hr)	100	Widen(m)	Nil

Sir No	13/2
Chainage	12+376
Existing Type	Slab
Existing Size	1x3.5m
Proposal	Reconstruction
Proposed Size	1x3.0x2.0m
Proposed Type	Box

HIP NO. 39 AT CH. 2800.206			
X = 255214.248	Y = 2980513.164		
R (m)	255	La (m)	55
De(deg)	6.1745	S(m)	0.49
Lc(m)	27.4	Ta(deg)	6.179
Ta(m)	13.173	Δ(deg)	18.5327
Es(m)	3.600	e(%)	5.000
V(km/hr)	65	Widen(m)	0.6

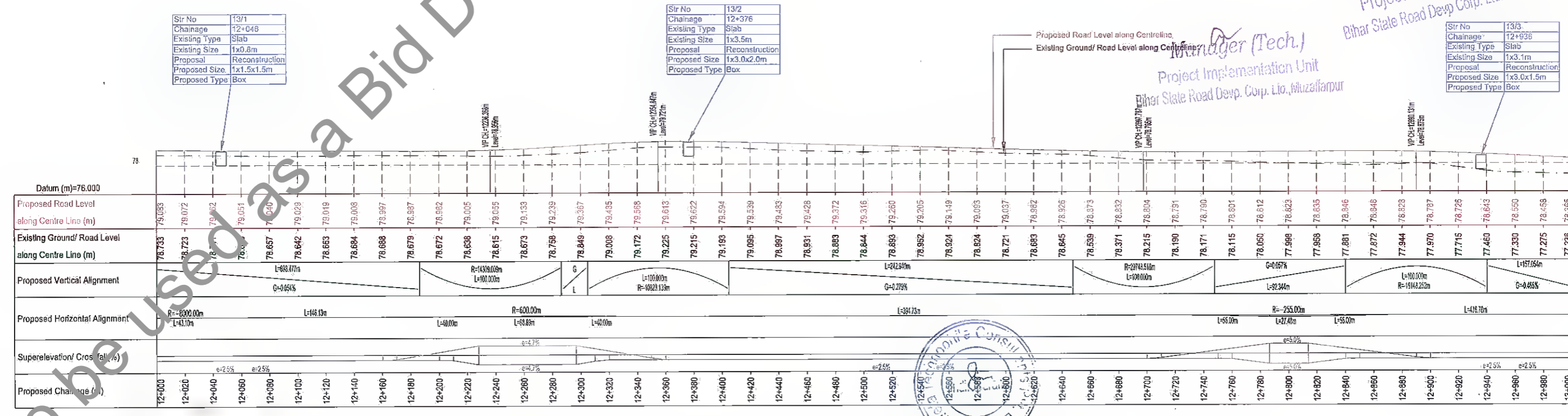
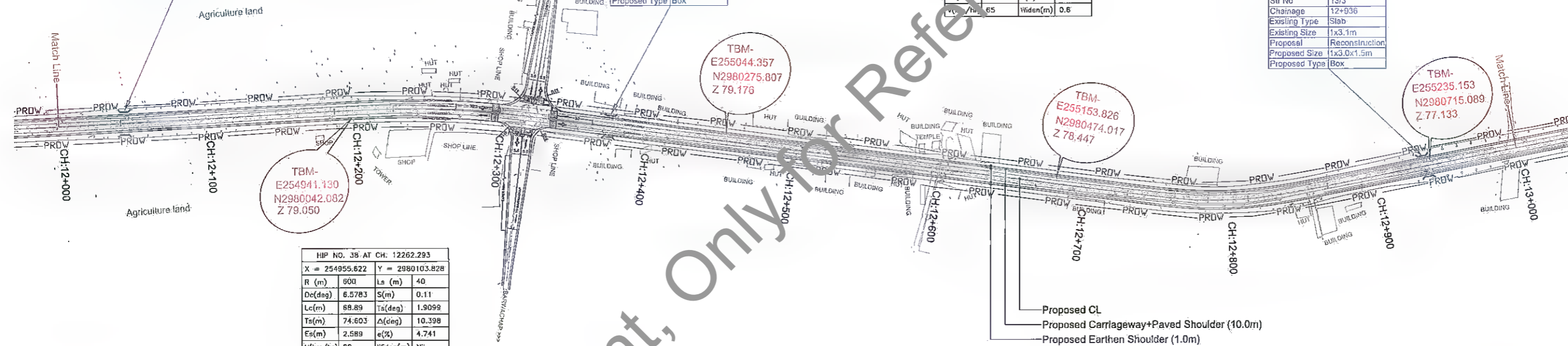
Sir No	13/3
Chainage	12+936
Existing Type	Slab
Existing Size	1x3.1m
Proposal	Reconstruction
Proposed Size	1x3.0x1.5m
Proposed Type	Box

HIP NO. 38 AT CH. 12262.293			
X = 254955.622	Y = 2980103.828		
R (m)	600	La (m)	40
De(deg)	6.5783	S(m)	0.11
Lc(m)	68.89	Ta(deg)	1.9099
Ta(m)	74.603	Δ(deg)	10.398
Es(m)	2.589	e(%)	4.741
V(km/hr)	80	Widen(m)	Nil

Sir No	13/1
Chainage	12+046
Existing Type	Slab
Existing Size	1x0.8m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box

Sir No	13/2
Chainage	12+376
Existing Type	Slab
Existing Size	1x3.5m
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Sir No	13/3
Chainage	12+936
Existing Type	Slab
Existing Size	1x3.1m
Proposal	Reconstruction
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Proposed Type	Box



K. Kumar
16-12-21
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muzaffarpur

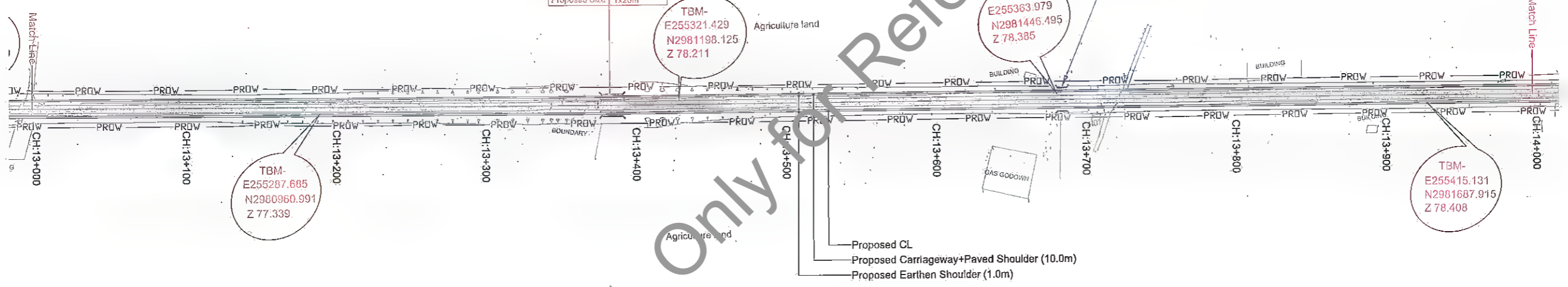
M. Jindal
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd., Muzaffarpur

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HORIZONTAL SCALE	1:2000																														
VERTICAL SCALE	1:200																														

HIP NO: 40 AT CH. 13361.379	
X = 255313.412	Y = 2981128.946
R (m) 5000	Ls (m)
Dc(deg) 0.3587	S(m)
Lc(m) 31.3	Ts(deg)
Ts(m) 15.852	Δ(deg) 0.3587
Es(m) 0.024	e(%) NC
V(km/hr) 100	Widen(m) Nil

Sir No	14/1
Chainage	13+306
Proposal	Reconstruction
Proposed Type	Minor Bridge
Proposed Size	1x20m

Sir No	14/2
Chainage	13+686
Existing Type	Pipe
Existing Size	1x0.6m
Proposal	Reconstruction
Proposed Type	Pipe
Proposed Size	1x1.2m

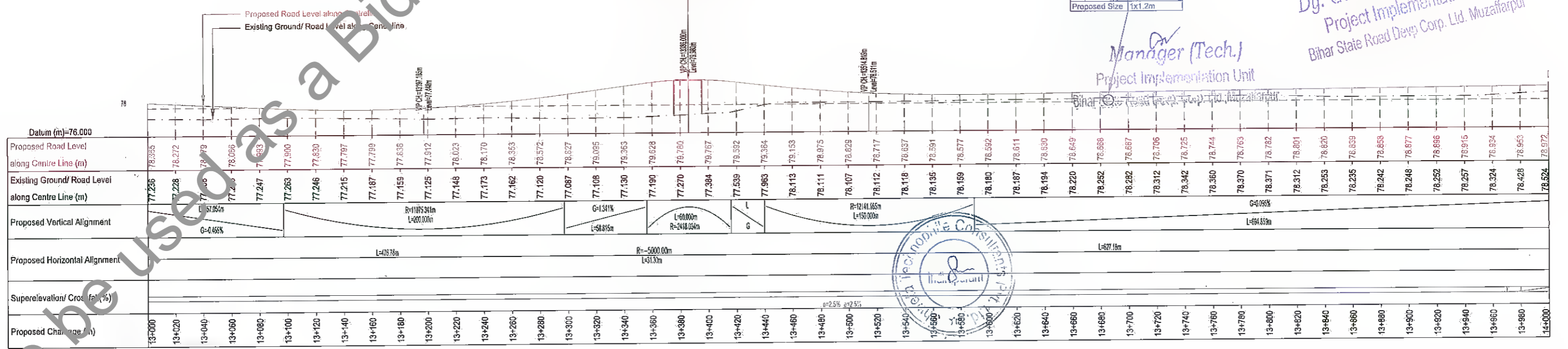


Sir No	14/1
Chainage	13+396
Proposal	Reconstruction
Proposed Type	Minor Bridge
Proposed Size	1x20m

Sir No	14/2
Chainage	13+686
Existing Type	Pipe
Existing Size	1x0.6m
Proposal	Reconstruction
Proposed Type	Pipe
Proposed Size	1x1.2m

K. Ramas
16-12-17
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muzaffarpur

Manager (Tech.)
Project Implementation Unit



R5	JULY 2021	MODIFIED DPR	CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)	PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)	DPR CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014	DRAWN BY	ASHISH RAWAT	TITLE: PLAN & PROFILE CH: 13+000 to 14+000
R4	JULY 2019	DETAILED PROJECT REPORT				DESIGN BY	JITENDER KUMAR	
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED				CHECKED BY	GEETA JINDAL	
R2	OCTOBER 2018	FINAL DPR				HORIZONTAL SCALE	VERTICAL SCALE	
REV.	DATE	DESCRIPTION OF REVISIONS				1:2000	1:200	

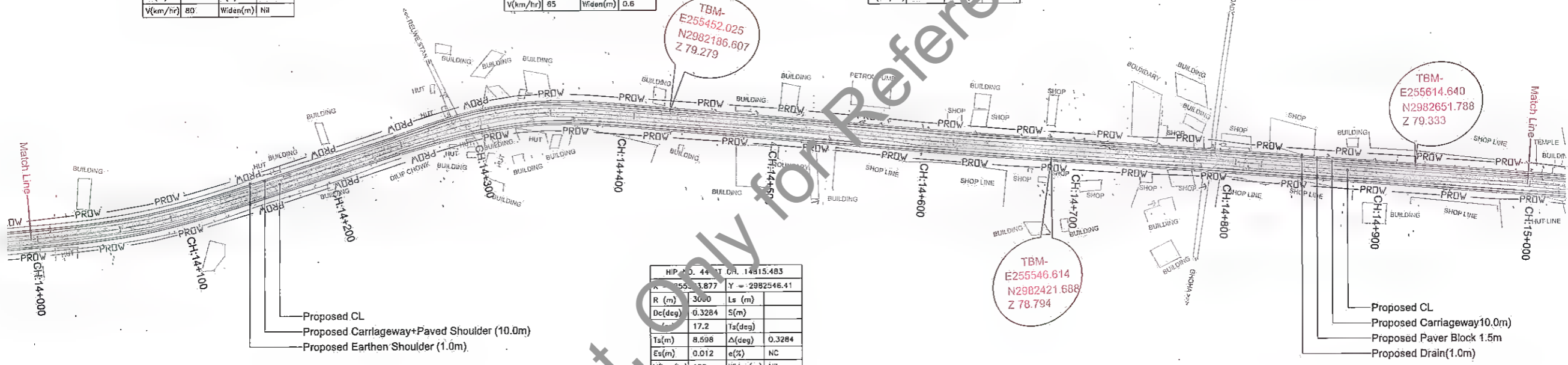
DRAWING NO. STC/BR/BSRDC/BNB/PP/14 A3

HIP NO. 41 AT CH. 14076.367		
X = 255435.286	Y = 2981833.691	
R (m)	400	La (m) 55
Dc(deg)	4.9137	S(m) 0.32
Lc(m)	34.3	Ta(deg) 3.9391
Ts(m)	72.37	Δ(deg) 12.7919
Es(m)	2.827	e(%) 5.000
V(km/hr)	80	Widen(m) Nil

HIP NO. 42 AT CH. 14330.889		
X = 255422	Y = 2982088.851	
R (m)	255	La (m) 55
Dc(deg)	10.416	S(m) 0.49
Lc(m)	46.36	Ta(deg) 6.179
Ts(m)	78.945	Δ(deg) 22.7739
Es(m)	5.62	e(%) 5.000
V(km/hr)	85	Widen(m) 0.6

HIP NO. 43 AT CH. 14643.55		
X = 255528.136	Y = 2982383.762	
R (m)	3000	La (m)
Dc(deg)	0.8763	S(m)
Lc(m)	45.88	Ta(deg)
Ts(m)	22.942	Δ(deg) 37.63
Es(m)	0.088	e(%) NC
V(km/hr)	100	Widen (m) Nil

HIP NO. 44 AT CH. 14815.483		
X = 255533.877	Y = 2982546.41	
R (m)	3000	La (m)
Dc(deg)	0.3284	S(m)
Lc(m)	17.2	Ta(deg)
Ts(m)	8.598	Δ(deg) 0.3284
Es(m)	0.012	e(%) NC
V(km/hr)	100	Widen(m) Nil



Proposed CL
 Proposed Carriageway+Paved Shoulder (10.0m)
 Proposed Earthen Shoulder (1.0m)

Proposed CL
 Proposed Carriageway 10.0m
 Proposed Paver Block 1.5m
 Proposed Drain (1.0m)

Proposed Road Level along Centreline
 Existing Ground/ Road Level along Centreline
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Patna

K. Ranjan
 16-12-11
 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

Datum (m)=77.000	
Proposed Road Level along Centre Line (m)	78.524 78.991 79.010 79.030 79.045 79.058 79.067 79.106 79.125 79.144 79.163 79.182 79.201 79.220 79.239 79.257 79.271 79.281 79.287 79.289 79.288 79.287 79.286 79.285 79.284 79.283 79.282 79.282 79.282 79.281 79.280 79.279 79.278 79.276 79.277 79.276 79.275 79.274 79.274 79.273 79.272 79.271 79.270 79.269 79.268 79.267 79.266 79.265 79.264 79.265 79.265 79.275 79.283
Existing Ground/ Road Level along Centre Line (m)	78.524 78.573 78.626 78.681 78.684 78.695 78.679 78.677 78.631 78.595 78.552 78.571 78.591 78.641 78.713 78.799 78.885 78.968 78.977 78.959 78.957 78.942 78.917 78.883 78.841 78.803 78.789 78.776 78.830 78.918 78.963 78.963 78.848 78.733 78.735 78.783 78.854 78.940 79.023 79.156 79.313 79.414 79.236 79.080 79.000 79.966 79.943 79.984 79.024 79.006 79.069 79.020
Proposed Vertical Alignment	G=0.66% L=69.83m L=100.00m R=10482.163m G=0.04%
Proposed Horizontal Alignment	L=56.00m R=400.00m L=31.90m L=55.00m L=104.19m L=53.00m R=255.00m L=48.30m L=53.00m L=211.50m R=3000.00m L=45.88m L=10.23m R L L=17.50m
Superelevation/ Crossfall (%)	e=5.0% e=5.0% e=2.5% e=2.5% e=5.0% e=5.0% e=2.5% e=2.5% e=5.0% e=5.0% e=2.5% e=2.5%
Proposed Chirriage (m)	14+000 14+020 14+040 14+060 14+080 14+100 14+120 14+140 14+160 14+180 14+200 14+220 14+240 14+260 14+280 14+300 14+320 14+340 14+360 14+380 14+400 14+420 14+440 14+460 14+480 14+500 14+520 14+540 14+560 14+580 14+600 14+620 14+640 14+660 14+680 14+700 14+720 14+740 14+760 14+780 14+800 14+820 14+840 14+860 14+880 14+900 14+920 14+940 14+960 14+980 15+000

REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2021	MODIFIED DPR
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CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza;
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	1:2000
VERTICAL SCALE	1:200

TITLE:
PLAN & PROFILE
 CH: 14+000 to 15+000

DRAWING NO.
 STC/BR/BSRDC/BNB/PP/15

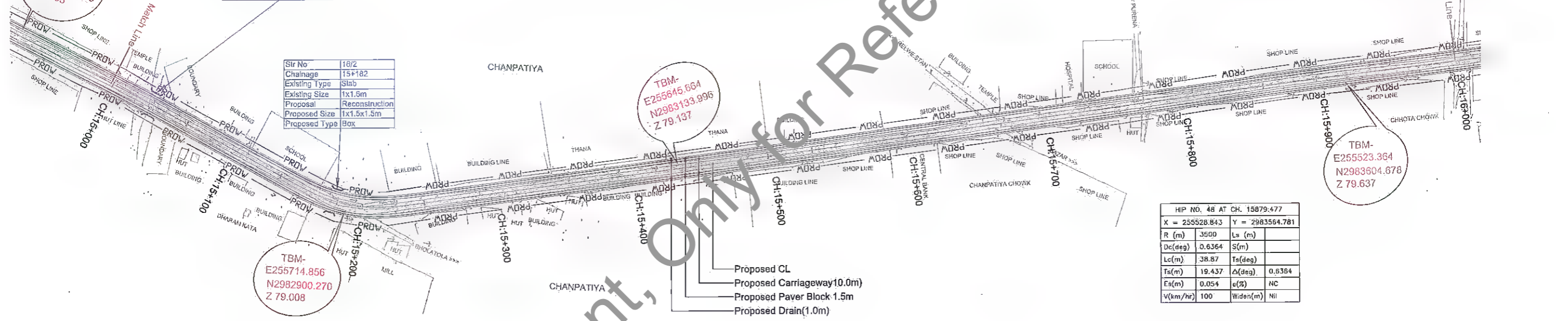
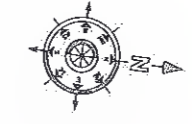
A3

Sir No	16/1
Chainage	15+032
Existing Type	Slab
Existing Size	1x0m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box

HIP NO. 45 AT CH. 15032.012			
X	= 255655.249	Y	= 2982750.84
R (m)	2000	La (m)	
Dc(deg)	1.7399	S(m)	
Lc(m)	60.73	Ta(deg)	
Ts(m)	30.359	Δ(deg)	1.7399
Es(m)	0.231	e(%)	NC
V(km/hr)	100	Widen(m)	Nil

HIP NO. 46 AT CH. 15194.199			
X	= 255713.819	Y	= 2982903.535
R (m)	100	La (m)	45
Dc(deg)	10.6352	S(m)	0.84
Lc(m)	18.56	Ta(deg)	12.8916
Ts(m)	55.834	Δ(deg)	36.4183
Es(m)	6.156	e(%)	5.000
V(km/hr)	50	Widen(m)	0.9

HIP NO. 47 AT CH. 15514.96			
X	= 255528.099	Y	= 2982904.4
R (m)	5000	La (m)	
Dc(deg)	0.3681	S(m)	
Lc(m)	32.12	Ta(deg)	
Ts(m)	16.06	Δ(deg)	0.3681
Es(m)	0.26	e(%)	NC
V(km/hr)	100	Widen(m)	Nil



TBM- E255714.856	
N2982900.270	
Z 79.008	

TBM- E255645.664	
N2983133.996	
Z 79.137	

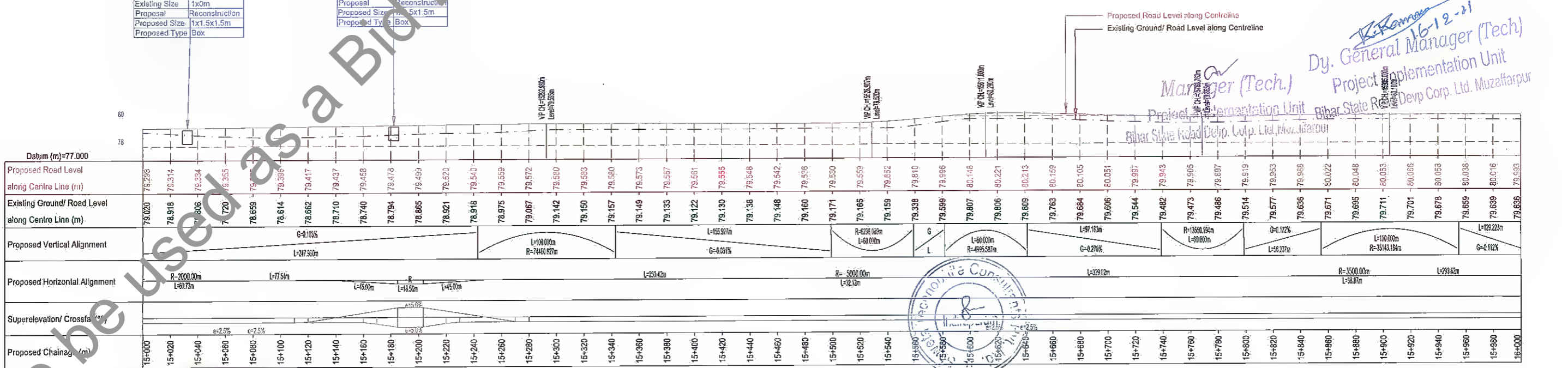
TBM- E255523.364	
N2983604.678	
Z 79.637	

HIP NO. 48 AT CH. 15879.477			
X	= 255528.843	Y	= 2983564.781
R (m)	3500	La (m)	
Dc(deg)	0.6364	S(m)	
Lc(m)	38.87	Ta(deg)	
Ts(m)	19.437	Δ(deg)	0.6364
Es(m)	0.054	e(%)	NC
V(km/hr)	100	Widen(m)	Nil

- Proposed CL
- Proposed Carriageway 10.0m
- Proposed Paver Block 1.5m
- Proposed Drain (1.0m)

Sir No	16/1
Chainage	15+032
Existing Type	Slab
Existing Size	1x0m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box

Sir No	16/2
Chainage	15+182
Existing Type	Slab
Existing Size	1x1.6m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box



K. Ramdas
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Dev. Corp. Ltd. Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
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DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014

DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL

TITLE:
 PLAN & PROFILE
 CH: 15+000 to 16+000

DRAWING NO.
 STC/BR/BSRDC/BNB/PPP/16

SCALE:
 HORIZONTAL SCALE: 1:2000
 VERTICAL SCALE: 1:200

Sheet: A3

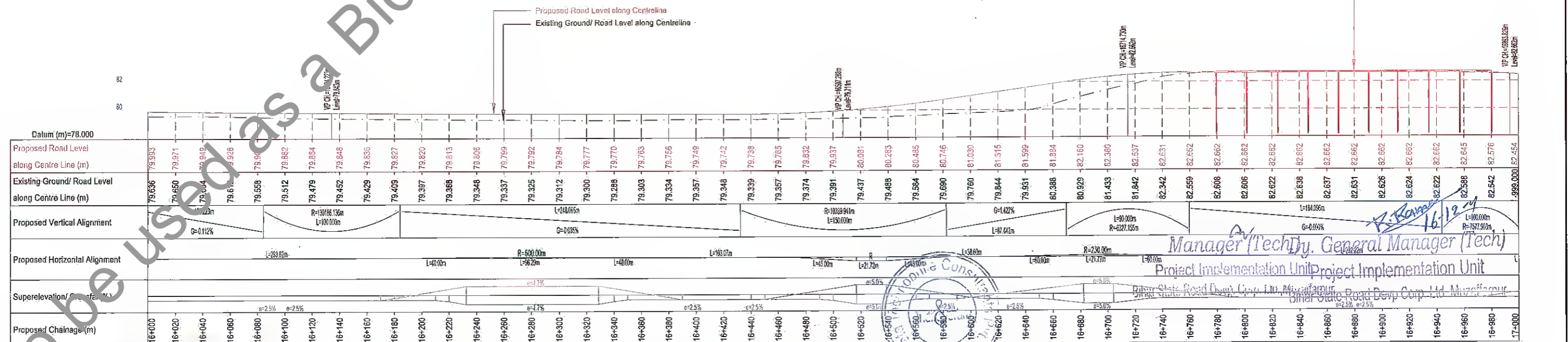
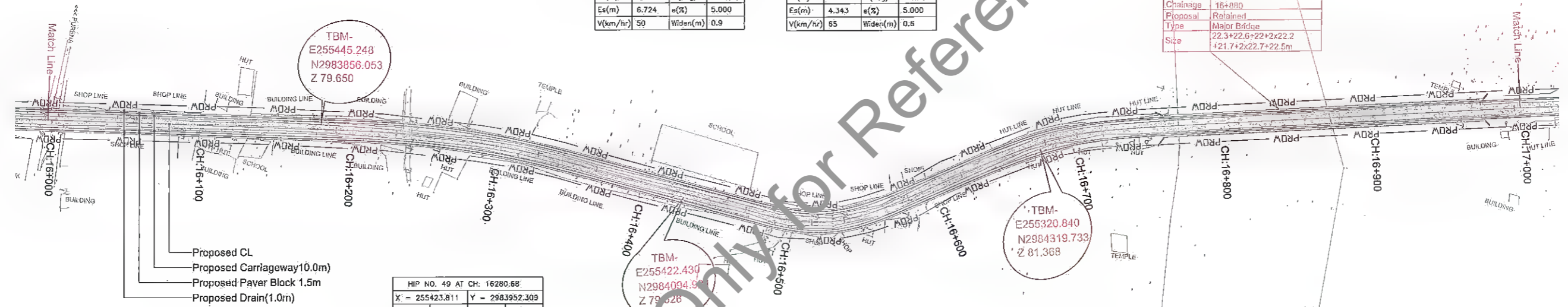
HIP NO. 50 AT CH. 16527.754			
X	=	255414.474	Y = 2984201.064
R (m)	100	Ls (m)	45
Dc(deg)	12.4461	S(m)	0.84
Lc(m)	21.72	Ts(deg)	12.8916
Ts(m)	57.41	Δ(deg)	38.2292
Es(m)	6.724	e(%)	5.000
V(km/hr)	50	Widen(m)	0.9

HIP NO. 51 AT CH. 16693.101			
X	=	255306.005	Y = 2984328.611
R (m)	230	Ls (m)	60
Dc(deg)	5.4226	S(m)	0.65
Lc(m)	21.77	Ts(deg)	7.4734
Ts(m)	71.42	Δ(deg)	20.3693
Es(m)	4.343	e(%)	5.000
V(km/hr)	65	Widen(m)	0.6

HIP NO. 49 AT CH. 16280.68			
X	=	255423.811	Y = 2983952.309
R (m)	600	Ls (m)	40
Dc(deg)	9.1954	S(m)	0.11
Lc(m)	96.29	Ts(deg)	1.9099
Ts(m)	88.453	Δ(deg)	13.0151
Es(m)	4.002	e(%)	4.741
V(km/hr)	80	Widen(m)	Nil

Sir No	17/1
Chainage	16+880
Proposal	Retained
Type	Major Bridge
Size	22.3+22.6+22+2x22.2 +21.7+2x22.7+22.5m

Sir No	17/1
Chainage	16+880
Proposal	Retained
Type	Major Bridge
Size	22.3+22.6+22+2x22.2 +21.7+2x22.7+22.5m



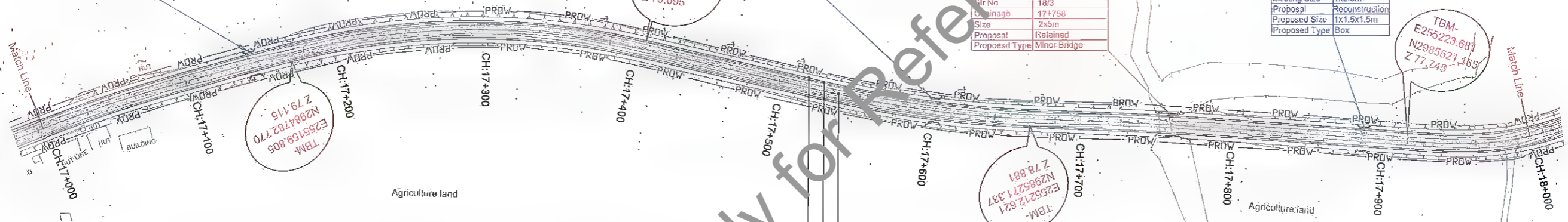
RS	JULY 2021	MODIFIED DPR	CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)	PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)	DPR CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014	DRAWN BY	ASHISH RAWAT	TITLE: PLAN & PROFILE CH: 16+000 to 17+000		
R4	JULY 2019	DETAILED PROJECT REPORT				DESIGN BY	JITENDER KUMAR			
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED				CHECKED BY	GEETA JINDAL			
R2	OCTOBER 2018	FINAL DPR				HORIZONTAL SCALE	1:2000		VERTICAL SCALE	1:200
REV.	DATE	DESCRIPTION OF REVISIONS				DRAWING NO. STC/BR/BSRDC/BNB/PP/17			A3	

Str No	18/1
Chainage	17+140
Type	Box
Size	1x1.5x1.5m
Proposal	New

Str No	18/2
Chainage	17+600
Type	Box
Size	1x2.0x2.0m
Proposal	New

HIP NO. 55 AT CH. 17758.201	
X = 255213.515	Y = 2985361.101
R (m)	2000
La (m)	1.6969
Da(deg)	59.23
S(m)	29.618
Lc(m)	59.23
Ts(deg)	1.6969
Ea(m)	0.219
e(%)	Nil
V(km/hr)	100

Str No	18/4
Chainage	17+890
Existing Type	Slab
Existing Size	1x2.6m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box



HIP NO. 52 AT CH. 17047.72	
X = 255184.469	Y = 2984662.357
R (m)	700
La (m)	35
Da(deg)	2.7041
S(m)	0.07
Lc(m)	33.04
Ts(deg)	1.4324
Ea(m)	51.548
Δ(deg)	5.5689
e(%)	0.898
Widen(m)	4.063
V(km/hr)	80

HIP NO. 53 AT CH. 17282.495	
X = 255125.238	Y = 2984892.37
R (m)	500
La (m)	45
Da(deg)	23.4856
S(m)	0.17
Lc(m)	204.95
Ts(deg)	2.5783
Ea(m)	150.187
Δ(deg)	28.6423
e(%)	16.211
Widen(m)	5.000
V(km/hr)	80

HIP NO. 54 AT CH. 17599.744	
X = 255203.785	Y = 2985202.742
R (m)	700
La (m)	34
Da(deg)	7.4117
S(m)	0
Lc(m)	90.55
Ts(deg)	1.117
Ea(m)	85.474
Δ(deg)	10.86
e(%)	3.155
Widen(m)	4.063
V(km/hr)	80

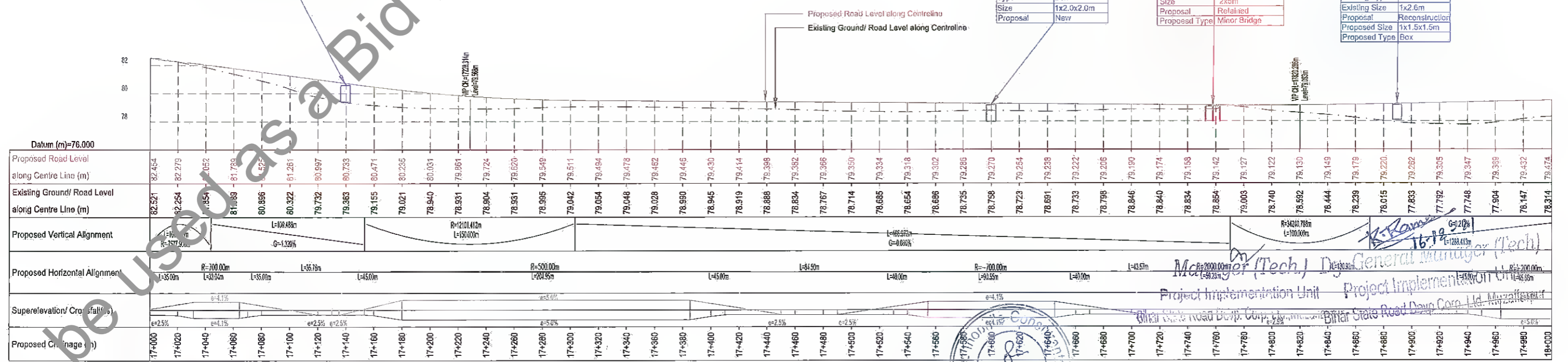
HIP NO. 56 AT CH. 17986.571	
X = 255234.344	Y = 2985589.405
R (m)	200
La (m)	45
Da(deg)	13.0812
S(m)	0.42
Lc(m)	43.66
Ts(deg)	6.4458
Ea(m)	68.711
Δ(deg)	25.9728
e(%)	5.681
Widen(m)	0.6
V(km/hr)	60

Str No	18/1
Chainage	17+140
Type	Box
Size	1x1.5x1.5m
Proposal	New


Str No	18/2
Chainage	17+600
Type	Box
Size	1x2.0x2.0m
Proposal	New

Str No	18/3
Chainage	17+758
Type	Box
Size	2x5m
Proposal	Retained
Proposed Type	Minor Bridge

Str No	18/4
Chainage	17+890
Existing Type	Slab
Existing Size	1x2.6m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box



REV.	DATE	DESCRIPTION OF REVISIONS
R6	JUL 2019	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:

Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

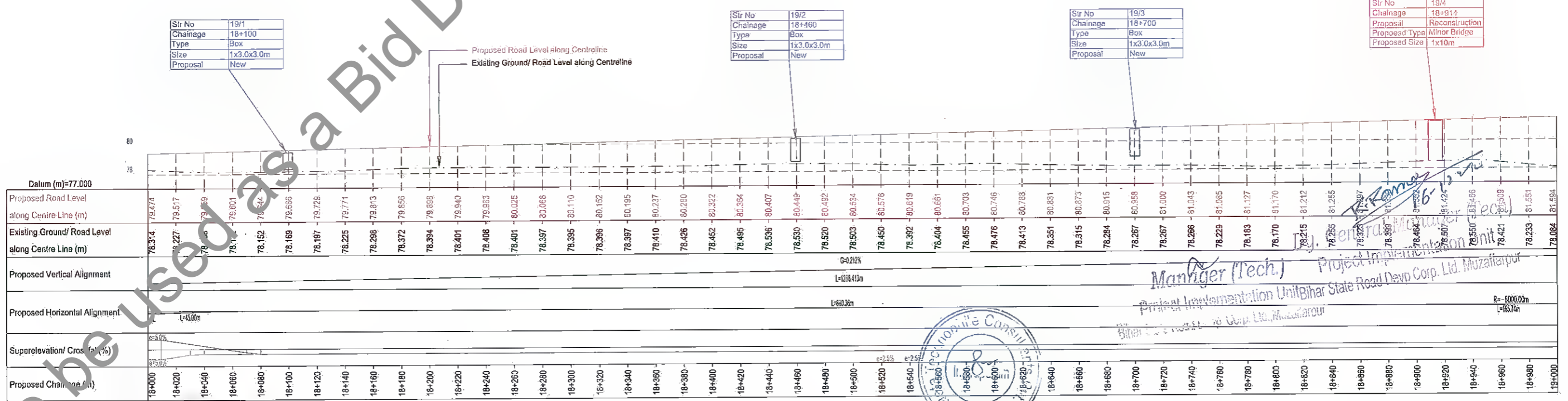
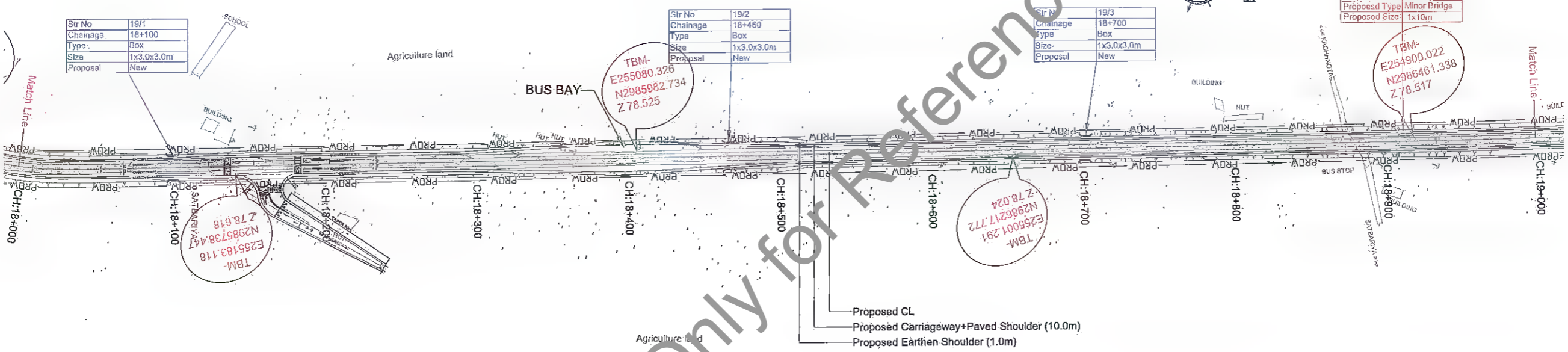
DRAWN BY:	ASHISH RAWAT
DESIGN BY:	JITENDER KUMAR
CHECKED BY:	GEETA JINDAL
HORIZONTAL SCALE:	1:2000
VERTICAL SCALE:	1:200

TITLE:
 PLAN & PROFILE
 CH:17+000 TO 18+000

DRAWING NO:
 STC/BR/BSRDC/BNB/PP/18

A3

BETTIAH ← NARKATIYAGANJ →



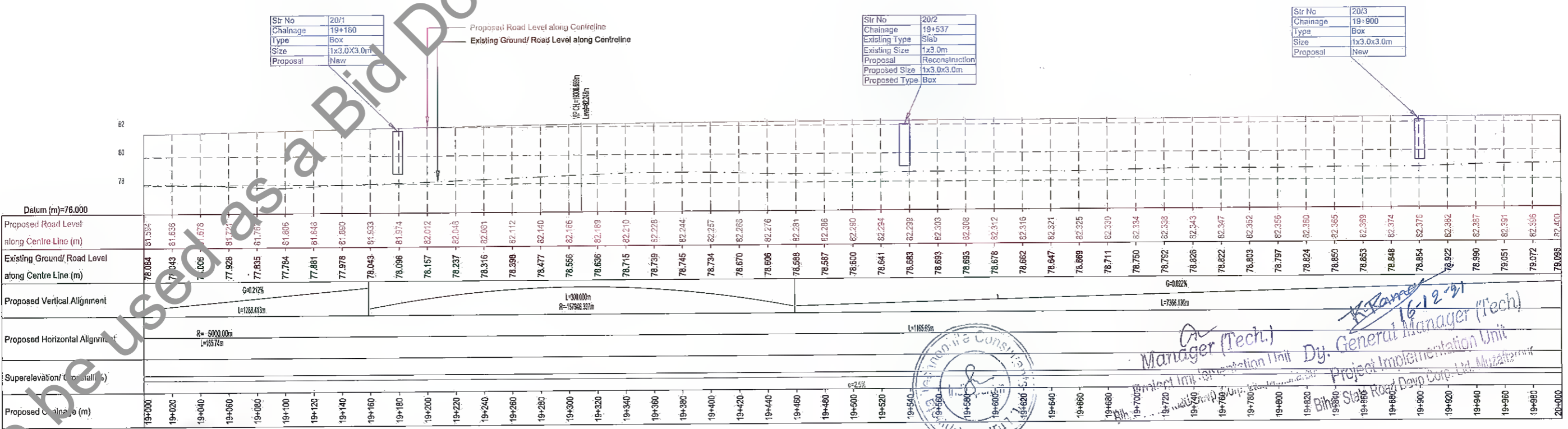
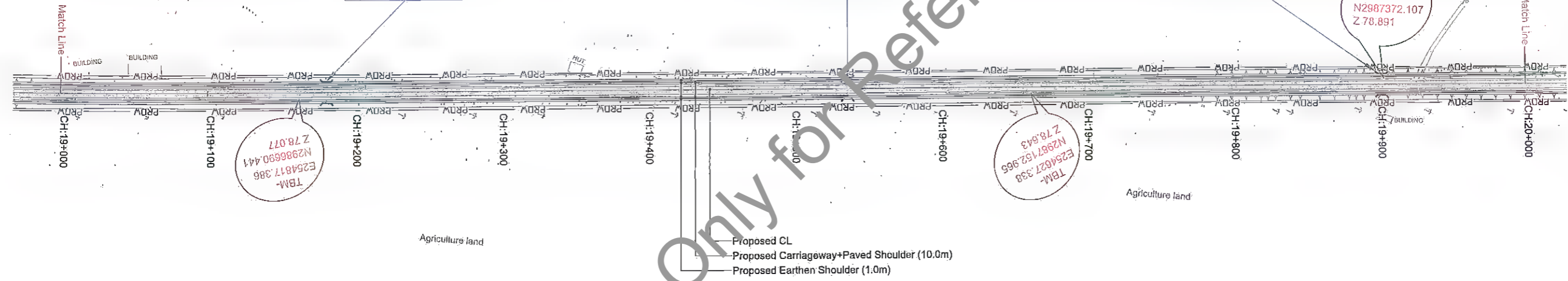
<table border="1"> <tr><th>REV.</th><th>DATE</th><th>DESCRIPTION OF REVISIONS</th></tr> <tr><td>R1</td><td>JULY 2019</td><td>MODIFIED DPR</td></tr> <tr><td>R4</td><td>JULY 2019</td><td>DETAILED PROJECT REPORT</td></tr> <tr><td>R3</td><td>DEC 2018</td><td>CLIENT SUGGESTION INCORPORATED</td></tr> <tr><td>R2</td><td>OCTOBER 2018</td><td>FINAL DPR</td></tr> </table>	REV.	DATE	DESCRIPTION OF REVISIONS	R1	JULY 2019	MODIFIED DPR	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED	R2	OCTOBER 2018	FINAL DPR	<p>CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DPR CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad-201014</p>	<table border="1"> <tr><td>DRAWN BY</td><td>ASHISH RAWAT</td></tr> <tr><td>DESIGN BY</td><td>JITENDER KUMAR</td></tr> <tr><td>CHECKED BY</td><td>GEETA JINDAL</td></tr> <tr><td>HORIZONTAL SCALE</td><td>1:2000</td></tr> <tr><td>VERTICAL SCALE</td><td>1:200</td></tr> </table>	DRAWN BY	ASHISH RAWAT	DESIGN BY	JITENDER KUMAR	CHECKED BY	GEETA JINDAL	HORIZONTAL SCALE	1:2000	VERTICAL SCALE	1:200	<p>TITLE: PLAN & PROFILE CH: 18+000 TO 19+000</p> <p>DRAWING NO. STC/BR/BSRDC/BNB/PP/19</p>	<p>A3</p>
REV.	DATE	DESCRIPTION OF REVISIONS																													
R1	JULY 2019	MODIFIED DPR																													
R4	JULY 2019	DETAILED PROJECT REPORT																													
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED																													
R2	OCTOBER 2018	FINAL DPR																													
DRAWN BY	ASHISH RAWAT																														
DESIGN BY	JITENDER KUMAR																														
CHECKED BY	GEETA JINDAL																														
HORIZONTAL SCALE	1:2000																														
VERTICAL SCALE	1:200																														

HIP NO. 57 AT CH: 19017.636			
X = 254868.568	Y = 298654.356		
R (m)	6000	LS (m)	
Dc(deg)	1.5827	S(m)	
Lc(m)	165.74	Ts(deg)	
Ts(m)	82.876	Δ(deg)	1.5827
Es(m)	0.572	e(%)	NC
V(km/hr)	100	Widen(m)	N/A

Str No	20/1
Chainage	19+180
Type	Box
Size	1x3.0x3.0m
Proposal	New

Str No	20/2
Chainage	19+537
Existing Type	Slab
Existing Size	1x3.0m
Proposal	Reconstruction
Proposed Size	1x3.0x3.0m
Proposed Type	Box

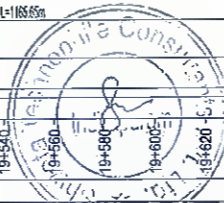
Str No	20/3
Chainage	19+900
Type	Box
Size	1x3.0x3.0m
Proposal	New



Str No	20/1
Chainage	19+180
Type	Box
Size	1x3.0x3.0m
Proposal	New

Str No	20/2
Chainage	19+537
Existing Type	Slab
Existing Size	1x3.0m
Proposal	Reconstruction
Proposed Size	1x3.0x3.0m
Proposed Type	Box

Str No	20/3
Chainage	19+900
Type	Box
Size	1x3.0x3.0m
Proposal	New



Manager (Tech.)
 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devt Corp. Ltd. Muzaffarpur

<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION OF REVISIONS</th> </tr> <tr> <td>R1</td> <td>JULY 2021</td> <td>MODIFIED DPR</td> </tr> <tr> <td>R4</td> <td>JULY 2019</td> <td>DETAILED PROJECT REPORT</td> </tr> <tr> <td>R3</td> <td>DEC 2018</td> <td>CLIENT SUGGESTION INCORPORATED</td> </tr> <tr> <td>R2</td> <td>OCTOBER 2018</td> <td>FINAL DPR</td> </tr> </table>	REV.	DATE	DESCRIPTION OF REVISIONS	R1	JULY 2021	MODIFIED DPR	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED	R2	OCTOBER 2018	FINAL DPR	<p>CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DPR CONSULTANTS: S70 Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa (Khand-I, Indirapuram, Ghaziabad-201014)</p>	<table border="1"> <tr> <td>DRAWN BY</td> <td>ASHISH RAWAT</td> </tr> <tr> <td>DESIGN BY</td> <td>JITENDER KUMAR</td> </tr> <tr> <td>CHECKED BY</td> <td>GEETA JINDAL</td> </tr> <tr> <td>HORIZONTAL SCALE</td> <td>1:2000</td> </tr> <tr> <td>VERTICAL SCALE</td> <td>1:200</td> </tr> </table>	DRAWN BY	ASHISH RAWAT	DESIGN BY	JITENDER KUMAR	CHECKED BY	GEETA JINDAL	HORIZONTAL SCALE	1:2000	VERTICAL SCALE	1:200	<p>TITLE: PLAN & PROFILE CH: 19+000 TO 20+000</p> <p>DRAWING NO. STC/BR/BSRDC/BNB/PP/20</p>
REV.	DATE	DESCRIPTION OF REVISIONS																												
R1	JULY 2021	MODIFIED DPR																												
R4	JULY 2019	DETAILED PROJECT REPORT																												
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED																												
R2	OCTOBER 2018	FINAL DPR																												
DRAWN BY	ASHISH RAWAT																													
DESIGN BY	JITENDER KUMAR																													
CHECKED BY	GEETA JINDAL																													
HORIZONTAL SCALE	1:2000																													
VERTICAL SCALE	1:200																													

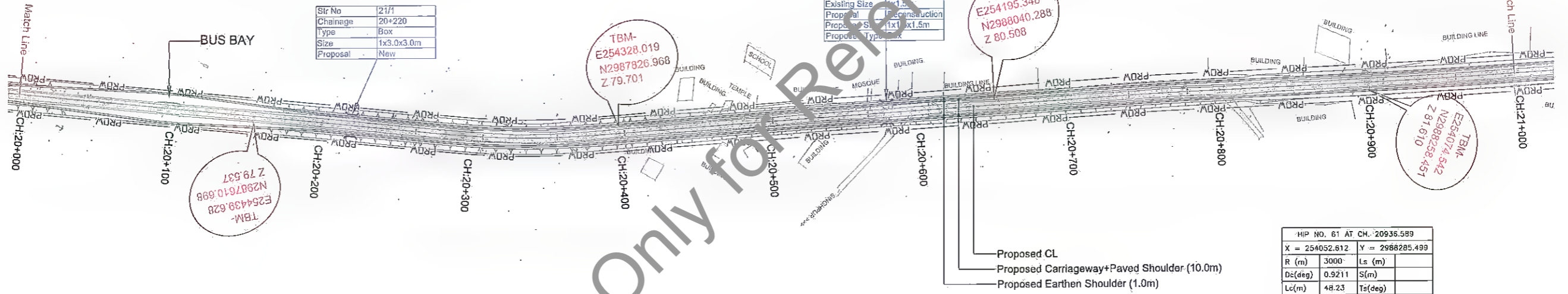
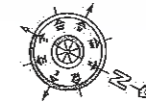
BETTIAH

NARKATIYAGANJ

32

HIP NO. 58 AT CH. 20335.929				HIP NO. 59 AT CH. 20536.426			
X = 254367.376	Y = 2987773.805	X = 254280.492	Y = 2987943.589	R (m)	9000	Ls (m)	
R (m)	550	Ls (m)	45	Dc(deg)	0.4047	S(m)	
Dc(deg)	5.1613	S(m)	0.15	Lc(m)	63.57	Ts(deg)	
Lc(m)	49.54	Ts(deg)	2.3439	Ts(m)	31.784	Δ (deg)	0.4047
Ts(m)	69.901	Δ (deg)	9.8491	Es(m)	0.056	e(%)	NC
Es(m)	2.188	e(%)	5.000	V(km/hr)	100	Widen(m)	Nil
V(km/hr)	80	Widen(m)	Nil				

HIP NO. 60 AT CH. 20762.228			
X = 254141.348	Y = 2988135.524	R (m)	3000
Ls (m)	1789	Dc(deg)	0.9211
S(m)	39.06	Lc(m)	48.23
Ts(deg)	1.1169	Ts(m)	19.529
Δ (deg)	1.1169	Es(m)	0.095
e(%)	NC	V(km/hr)	100
Widen(m)	Nil		



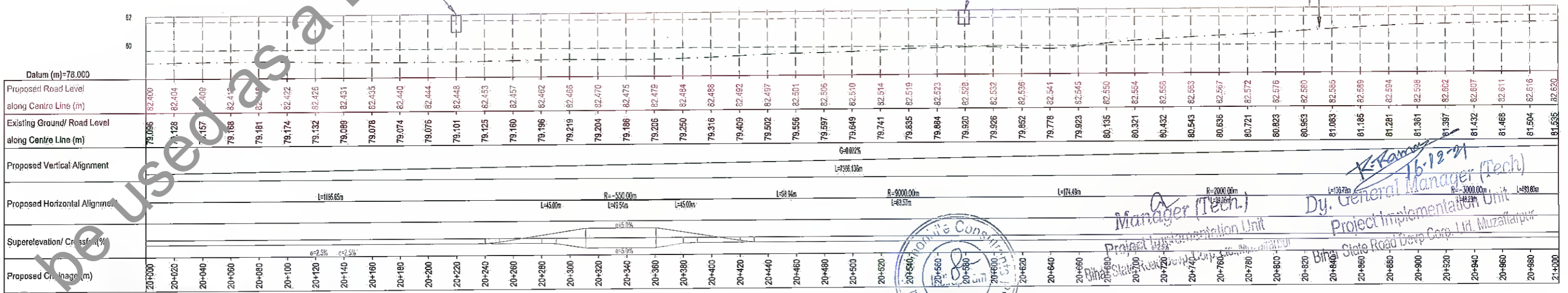
Str No	21/1
Chainage	20+220
Type	Box
Size	1x3.0x3.0m
Proposal	New

Str No	21/2
Chainage	20+79
Existing Type	Slab
Existing Size	1x1.5m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box

HIP NO. 61 AT CH. 20936.589			
X = 254052.612	Y = 2988285.499	R (m)	3000
Ls (m)	1789	Dc(deg)	0.9211
S(m)	39.06	Lc(m)	48.23
Ts(deg)	1.1169	Ts(m)	19.529
Δ (deg)	1.1169	Es(m)	0.097
e(%)	NC	V(km/hr)	100
Widen(m)	Nil		

Str No	21/1
Chainage	20+220
Type	Box
Size	1x3.0x3.0m
Proposal	New

Str No	21/2
Chainage	20+579
Existing Type	Slab
Existing Size	1x1.5m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box



REV.	DATE	DESCRIPTION OF REVISIONS
R1	JULY 2019	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:
 BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
 Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014

DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL

TITLE:
 PLAN & PROFILE
 CH:20+000 TO 21+000

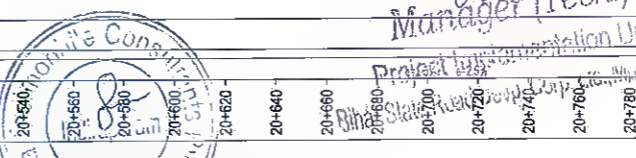
DRAWING NO.
 STC/BR/BSRDC/BNB/PP/21

HORIZONTAL SCALE
 1:2000

VERTICAL SCALE
 1:200

A3

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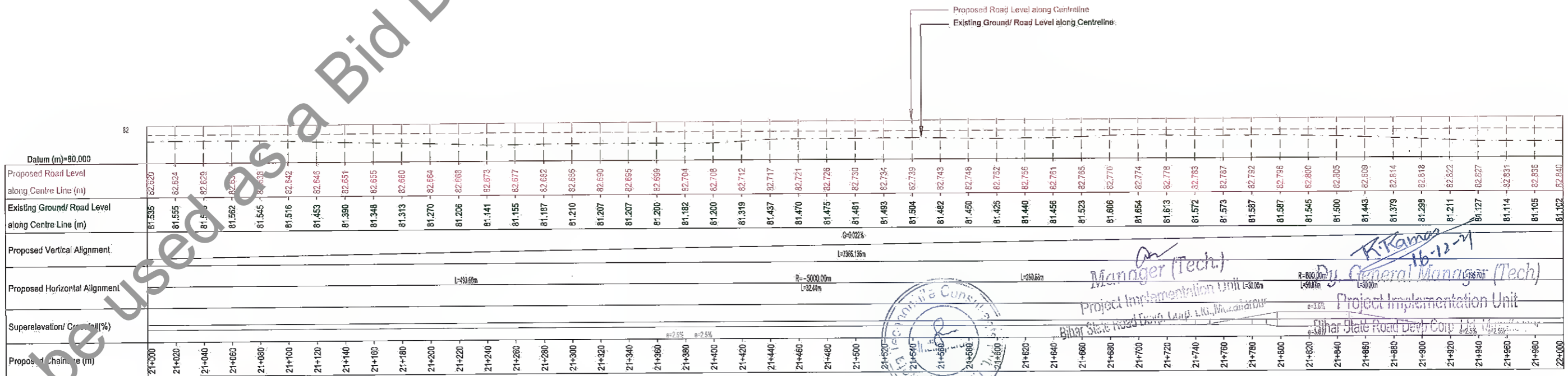
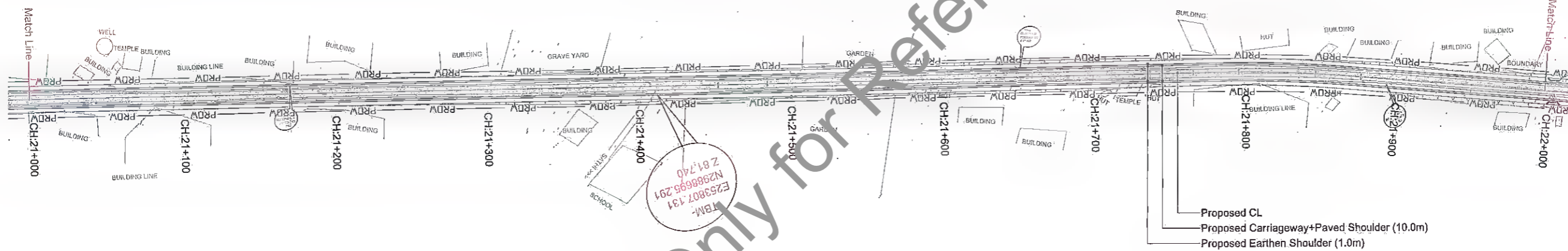
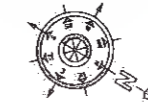
Manager (Tech.)
Dy. General Manager (Tech.)
Project Implementation Unit
State Road Dev. Corp. Ltd. Muzaffarpur

BETTIAH


NARKATIYAGANJ

HIP NO. 62 AT CH. 21470.525			
X = 253772.922	Y = 2988740.32		
R (m)	5000	La (m)	
Dc(deg)	0.3718	S(m)	
Lc(m)	32.44	Ts(deg)	
Ts(m)	16.222	Δ(deg)	0.3718
Es(m)	0.026	e(%)	NC
V(km/hr)	100	Widen(m)	Nil

HIP NO. 63 AT CH. 21823.067			
X = 253586.288	Y = 2989039.451		
R (m)	800	La (m)	30
Dc(deg)	3.6435	S(m)	0.05
Lc(m)	50.87	Ts(deg)	1.0743
Ts(m)	55.473	Δ(deg)	5.7921
Es(m)	1.073	e(%)	-3.55
V(km/hr)	80	Widen(m)	



REV.	DATE	DESCRIPTION OF REVISIONS
R2	OCTOBER 2018	FINAL DPR
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R4	JULY 2019	DETAILED PROJECT REPORT
R5	JULY 2021	MODIFIED DPR

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
S7C Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

DRAWN BY: ASHISH RAWAT
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL

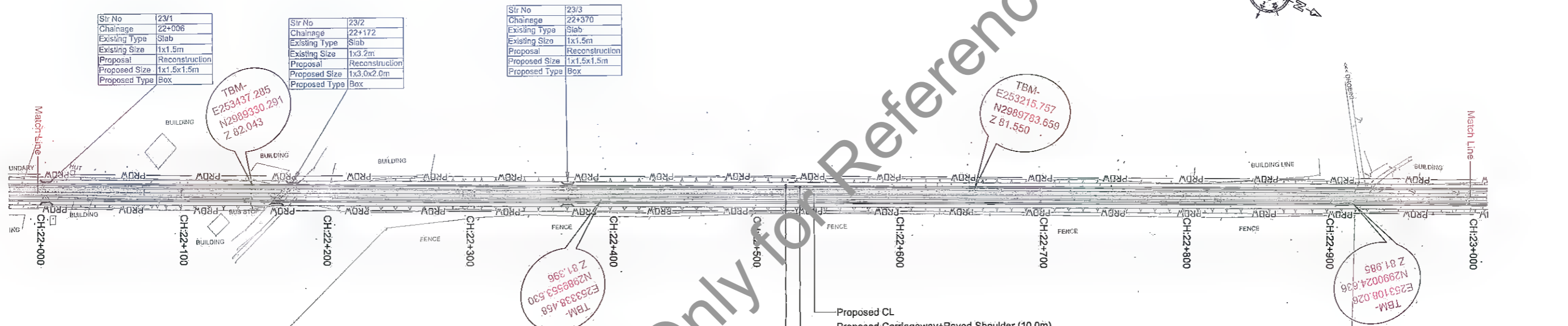
TITLE:
 PLAN & PROFILE
 CH:21+000 to 22+000

DRAWING NO.
 STC/BR/BSRDC/BNB/PP/22

HORIZONTAL SCALE: 1:2000
VERTICAL SCALE: 1:200

A3

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Str No	23/1
Chainage	22+006
Existing Type	Slab
Existing Size	1x1.5m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box

Str No	23/2
Chainage	22+172
Existing Type	Slab
Existing Size	1x3.2m
Proposal	Reconstruction
Proposed Size	1x3.0x2.0m
Proposed Type	Box

Str No	23/3
Chainage	22+370
Existing Type	Slab
Existing Size	1x1.5m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box

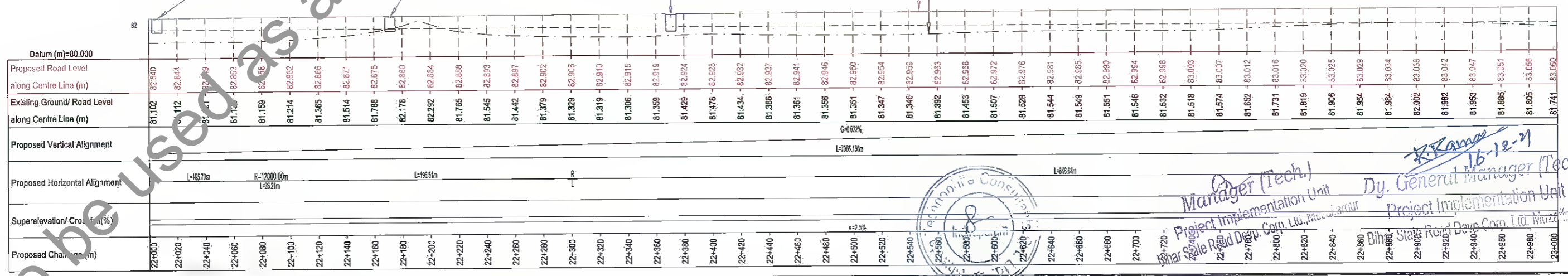
HIP NO. 64 AT CH. 22087.304	
X = 253469.738	Y = 2989276.635
R (m)	12000
Dc(deg)	0.1251
Lc(m)	26.21
Ta(m)	13.105
Es(m)	0.007
V(km/hr)	100

HIP NO. 65 AT CH. 22300.5	
X = 253375.937	Y = 2989466.885
R (m)	4000
Dc(deg)	0.1154
Lc(m)	9.86
Ta(m)	4.278
Es(m)	0.002
V(km/hr)	100

Str No	23/1
Chainage	22+006
Existing Type	Slab
Existing Size	1x1.5m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box

Str No	23/2
Chainage	22+172
Existing Type	Slab
Existing Size	1x3.2m
Proposal	Reconstruction
Proposed Size	1x3.0x2.0m
Proposed Type	Box

Str No	23/3
Chainage	22+370
Existing Type	Slab
Existing Size	1x1.5m
Proposal	Reconstruction
Proposed Size	1x1.5x1.5m
Proposed Type	Box



REV.	DATE	DESCRIPTION OF REVISIONS
R1	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
57C Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014

DRAWN BY: ASHISH RAWAT
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL

TITLE:
 PLAN & PROFILE
 CH:22+000 to 23+000

DRAWING NO.
 STC/BR/BSRDC/BNB/PP/23

A3

Not to be used as a Bid Document Only for Reference

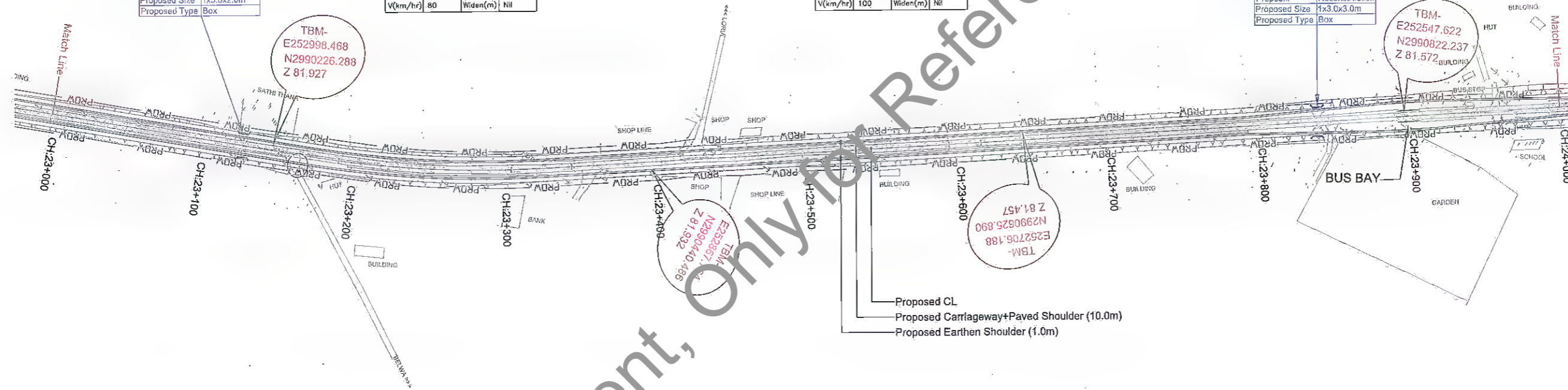
K. Ramas
 16-12-21
 Manager (Tech)
 Project Implementation Unit
 Bihar State Road Dev. Corp. Ltd., Patna
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Dev. Corp. Ltd., Patna

Sir No	24/1
Chainage	23+127
Existing Type	Slab
Existing Size	1x2.5m
Proposal	Reconstruction
Proposed Size	1x3.0x2.0m
Proposed Type	Box

HIP NO. 66 AT CH. 23248.919			
X =	252957.864	Y =	2990319.752
R (m)	700	Ls (m)	40
De(deg)	9.3801	S(m)	0.1
Lc(m)	114.6	Ts(deg)	1.637
Ta(m)	97.626	Δ(deg)	12.6542
Ea(m)	4.39	e(%)	4.063
V(km/hr)	80	Widen(m)	Nil

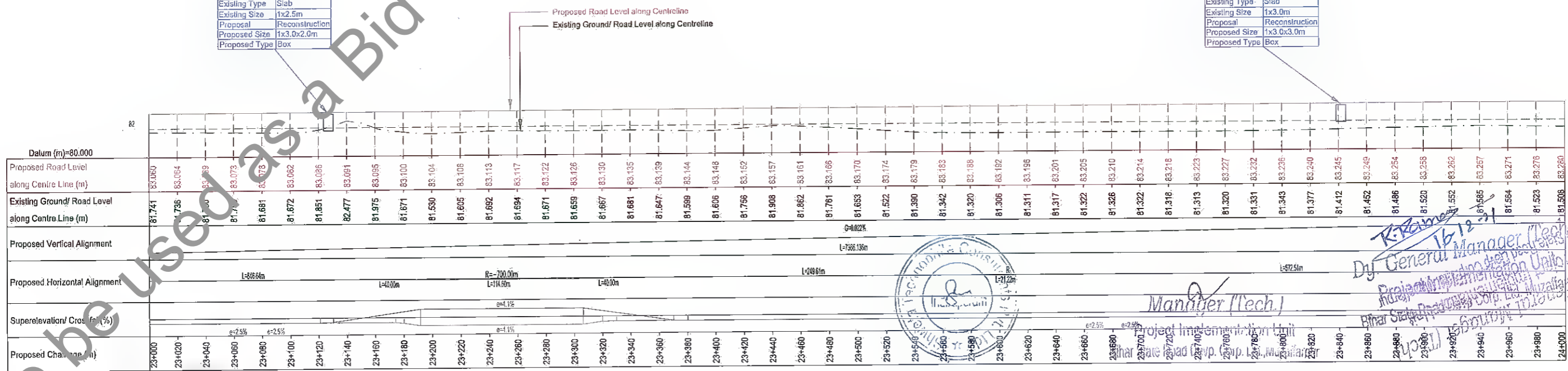
HIP NO. 67 AT CH. 23606.435			
X =	252733.574	Y =	2990598.579
R (m)	7000	Ls (m)	
De(deg)	0.1737	S(m)	
Lc(m)	21.22	Ts(deg)	
Ta(m)	10.61	Δ(deg)	0.1737
Ea(m)	0.008	e(%)	NC
V(km/hr)	100	Widen(m)	Nil

Sir No	24/2
Chainage	23+841
Existing Type	Slab
Existing Size	1x3.0m
Proposal	Reconstruction
Proposed Size	1x3.0x3.0m
Proposed Type	Box



Sir No	24/1
Chainage	23+127
Existing Type	Slab
Existing Size	1x2.5m
Proposal	Reconstruction
Proposed Size	1x3.0x2.0m
Proposed Type	Box

Sir No	24/2
Chainage	23+841
Existing Type	Slab
Existing Size	1x3.0m
Proposal	Reconstruction
Proposed Size	1x3.0x3.0m
Proposed Type	Box



REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad-201014

DRAWN BY: ASHISH RAWAT
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL

TITLE:
 PLAN & PROFILE
 CH:23+000 TO 24+000

DRAWING NO.
 STC/BR/BSRDC/BNB/PP/24

HORIZONTAL SCALE: 1:2000
VERTICAL SCALE: 1:200

A3

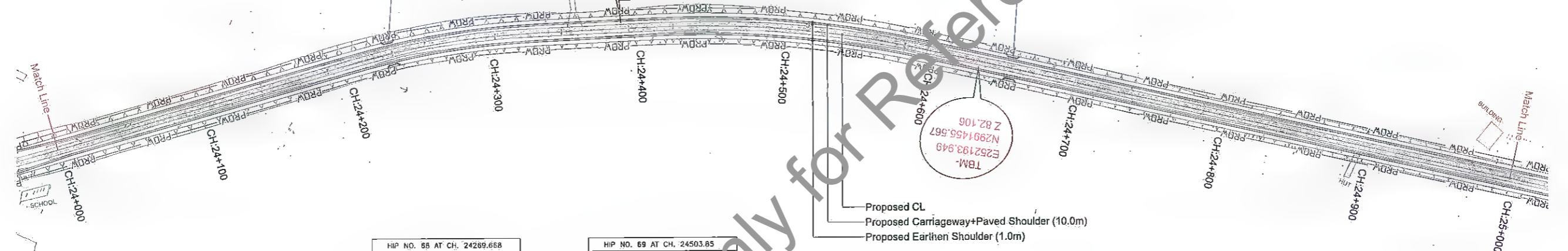
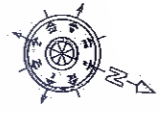
Not to be used as a Bid Document, Only for Reference

Sir No	25/1
Chainage	24+220
Type	Box
Size	1x1.5x1.5m
Proposal	New

TBM-
E252259.518
N2991221.018
Z 81.736

Sir No	25/2
Chainage	24+660
Type	Box
Size	1x1.5x1.5m
Proposal	New

TBM-
E252193.949
N2991455.567
Z 82.106



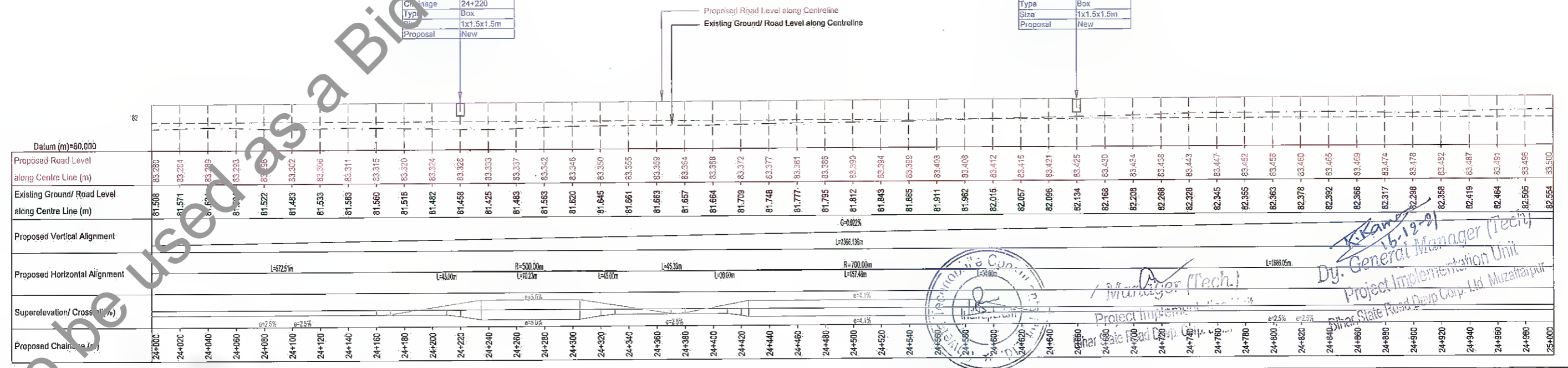
HIP NO. 65 AT CH. 24289.658			
X	= 252316.132	Y	= 2991114.316
R (m)	500	Ls (m)	45
Dc(deg)	8.0477	S(m)	0.17
Lc(m)	70.23	Ts(deg)	2.5783
Ts(m)	80.389	Δ(deg)	13.2043
Es(m)	-3.509	e(%)	5.000
V(km/hr)	80	Widen(m)	Nil

HIP NO. 69 AT CH. 24503.85			
X	= 252213.905	Y	= 2991325.17
R (m)	700	Ls (m)	30
Dc(deg)	12.8897	S(m)	0.05
Lc(m)	157.48	Ts(deg)	1.2778
Ts(m)	169.31	Δ(deg)	15.3452
Es(m)	-3.374	e(%)	4.063
V(km/hr)	80	Widen(m)	Nil

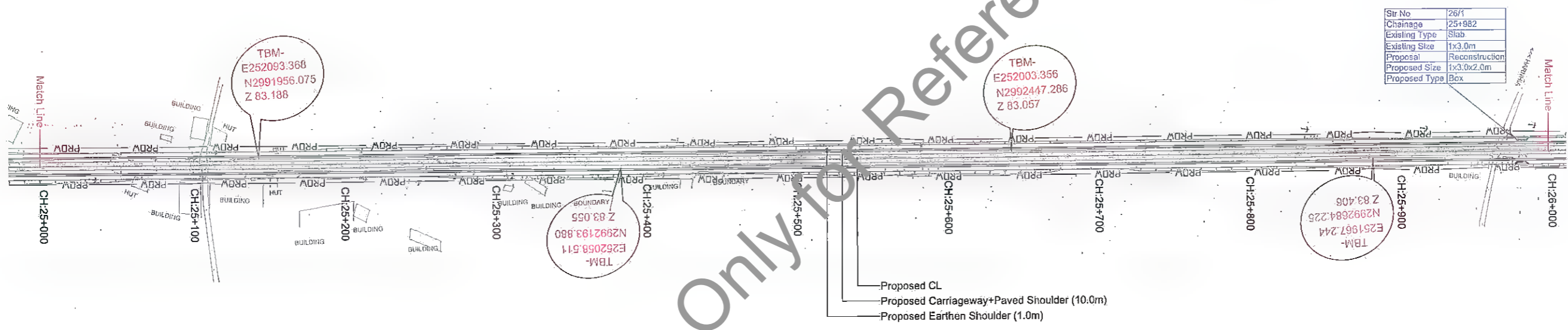
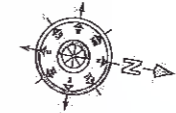
Proposed CL
Proposed Carriageway+Paved Shoulder (10.0m)
Proposed Earthen Shoulder (1.0m)

Sir No	25/1
Chainage	24+220
Type	Box
Size	1x1.5x1.5m
Proposal	New

Sir No	25/2
Chainage	24+660
Type	Box
Size	1x1.5x1.5m
Proposal	New



<table border="1"> <tr><td>REV.</td><td>DATE</td><td>DESCRIPTION OF REVISIONS</td></tr> <tr><td>R5</td><td>JULY 2021</td><td>MODIFIED DPR</td></tr> <tr><td>R4</td><td>JULY 2019</td><td>DETAILED PROJECT REPORT</td></tr> <tr><td>R3</td><td>DEC 2018</td><td>CLIENT SUGGESTION INCORPORATED</td></tr> <tr><td>R2</td><td>OCTOBER 2018</td><td>FINAL DPR</td></tr> </table>	REV.	DATE	DESCRIPTION OF REVISIONS	R5	JULY 2021	MODIFIED DPR	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED	R2	OCTOBER 2018	FINAL DPR	<p>CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DPR CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad-201014</p>	<table border="1"> <tr><td>DRAWN BY</td><td>ASHISH RAWAT</td></tr> <tr><td>DESIGN BY</td><td>JITENDER KUMAR</td></tr> <tr><td>CHECKED BY</td><td>GEETA JINDAL</td></tr> </table>	DRAWN BY	ASHISH RAWAT	DESIGN BY	JITENDER KUMAR	CHECKED BY	GEETA JINDAL	<p>TITLE: PLAN & PROFILE CH:24+000 to 25+000</p>
REV.	DATE	DESCRIPTION OF REVISIONS																								
R5	JULY 2021	MODIFIED DPR																								
R4	JULY 2019	DETAILED PROJECT REPORT																								
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED																								
R2	OCTOBER 2018	FINAL DPR																								
DRAWN BY	ASHISH RAWAT																									
DESIGN BY	JITENDER KUMAR																									
CHECKED BY	GEETA JINDAL																									
<p>HORIZONTAL SCALE: 1:2000 VERTICAL SCALE: 1:200</p>				<p>DRAWING NO. STC/BR/BSRDC/BNB/PP/25</p>	<p>A3</p>																					



Str No	26/2
Chainage	25+982
Existing Type	Slab
Existing Size	1x3.0m
Proposal	Reconstruction
Proposed Size	1x3.0x2.0m
Proposed Type	Box

Proposed Road Level along Centre Line (m)	Existing Ground/ Road Level along Centre Line (m)
83.300	82.554
83.504	82.623
83.608	82.682
83.513	82.727
83.518	82.749
83.522	82.770
83.526	82.794
83.531	82.818
83.535	82.816
83.540	82.809
83.544	82.798
83.545	82.759
83.553	82.721
83.557	82.680
83.562	82.656
83.566	82.651
83.570	82.679
83.575	82.706
83.579	82.767
83.594	82.837
83.598	82.903
83.592	82.950
83.597	82.980
83.601	83.001
83.605	83.003
83.610	82.990
83.614	82.945
83.619	82.889
83.623	82.866
83.628	82.904
83.632	82.913
83.636	82.929
83.641	82.946
83.645	82.955
83.650	82.985
83.654	83.004
83.658	83.023
83.663	83.042
83.667	83.062
83.672	83.082
83.676	83.099
83.680	83.132
83.685	83.163
83.689	83.189
83.694	83.212
83.698	83.249
83.702	83.315
83.707	83.373
83.711	83.443
83.716	83.517
83.720	83.551


Proposed Vertical Alignment: G=0.02%
L=736.13m

Proposed Horizontal Alignment: L=168.05m

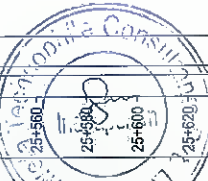
Superelevation/ Crossfall (%): e=2.5%

Proposed Chainage (m): 25+000 to 26+000

R5	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:

Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

DRAWN BY: ASHISH RAWAT
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL

TITLE:
 PLAN & PROFILE
 CH:25+000 to 26+000

DRAWING NO.:
 STC/BR/BSRDC/BNB/PP/26

Scale:
 HORIZONTAL SCALE: 1:2000
 VERTICAL SCALE: 1:200

Sheet: A3

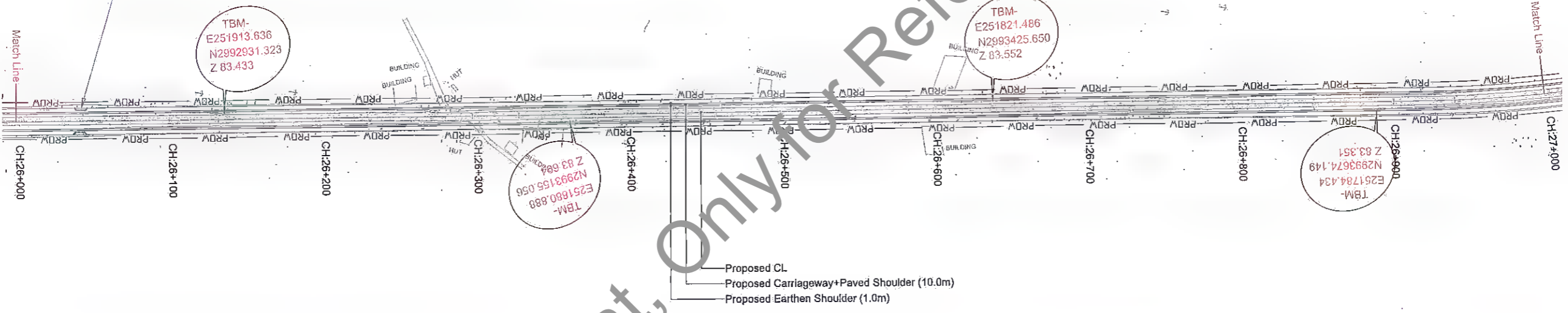
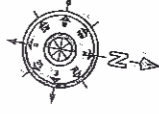
(Signature)
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Development Corporation Ltd. Patna

BETTIAH

NARKATIYAGANJ

Sir No	27/1
Chainage	26+040
Type	Box
Size	1x1.5x1.5m
Proposal	New

HIP NO. 70 AT CH. 26313.844	
X = 251885.898	Y = 2993108.553
R (m)	9000
Dc(deg)	0.1935
Lc(m)	30.4
Ts(m)	15.201
Ea(m)	0.013
V(km/hr)	100
Widen(m)	Nil



Sir No	27/1
Chainage	26+040
Type	Box
Size	1x1.5x1.5m
Proposal	New

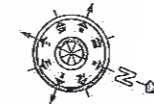
Proposed Road Level along Centreline
Existing Ground/ Road Level along Centreline

Datum (m)=82.000	
Proposed Road Level along Centre Line (m)	83.720, 83.724, 83.729, 83.733, 83.737, 83.742, 83.746, 83.751, 83.755, 83.760, 83.764, 83.768, 83.773, 83.777, 83.782, 83.786, 83.790, 83.795, 83.799, 83.804, 83.808, 83.812, 83.817, 83.821, 83.826, 83.830, 83.834, 83.839, 83.844, 83.848, 83.852, 83.857, 83.861, 83.865, 83.870, 83.874, 83.878, 83.883, 83.887, 83.892, 83.896, 83.900, 83.905, 83.911, 83.917, 83.925, 83.935, 83.942, 83.953, 83.964, 83.976
Existing Ground/ Road Level along Centre Line (m)	83.351, 83.392, 83.451, 83.418, 83.388, 83.367, 83.362, 83.358, 83.335, 83.306, 83.289, 83.289, 83.289, 83.286, 83.306, 83.314, 83.317, 83.323, 83.341, 83.359, 83.368, 83.353, 83.338, 83.309, 83.272, 83.248, 83.258, 83.288, 83.327, 83.399, 83.451, 83.469, 83.487, 83.461, 83.422, 83.392, 83.389, 83.385, 83.383, 83.382, 83.385, 83.384, 83.384, 83.387, 83.387, 83.387, 83.387, 83.387, 83.387, 83.387
Proposed Vertical Alignment	e=-0.02%, L=1686.65m, R=9000.00m, L=30.00m, e=3.2%
Proposed Horizontal Alignment	L=1686.65m, R=9000.00m, L=30.00m, e=3.2%
Superelevation/ Crossfall (%)	e=2.5%, e=7.5%, e=3.2%
Proposed Chainage (m)	26+000, 26+020, 26+040, 26+060, 26+080, 26+100, 26+120, 26+140, 26+160, 26+180, 26+200, 26+220, 26+240, 26+260, 26+280, 26+300, 26+320, 26+340, 26+360, 26+380, 26+400, 26+420, 26+440, 26+460, 26+480, 26+500, 26+520, 26+540, 26+560, 26+580, 26+600, 26+620, 26+640, 26+660, 26+680, 26+700, 26+720, 26+740, 26+760, 26+780, 26+800, 26+820, 26+840, 26+860, 26+880, 26+900, 26+920, 26+940, 26+960, 26+980, 27+000

<table border="1"> <tr><td>R5</td><td>JUN 2021</td><td>MODIFIED DPR</td></tr> <tr><td>R4</td><td>JULY 2019</td><td>DETAILED PROJECT REPORT</td></tr> <tr><td>R3</td><td>DEC 2018</td><td>CLIENT SUGGESTION INCORPORATED</td></tr> <tr><td>R2</td><td>OCTOBER 2018</td><td>FINAL DPR</td></tr> <tr><td>REV.</td><td>DATE</td><td>DESCRIPTION OF REVISIONS</td></tr> </table>	R5	JUN 2021	MODIFIED DPR	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED	R2	OCTOBER 2018	FINAL DPR	REV.	DATE	DESCRIPTION OF REVISIONS	<p>CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DPR CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indirapuram, Ghaziabad-201014</p>	<p>DRAWN BY: JITENDER KUMAR DESIGN BY: JITENDER KUMAR CHECKED BY: GEETA JINDAL HORIZONTAL SCALE: 1:2000 VERTICAL SCALE: 1:200</p>	<p>TITLE: PLAN & PROFILE CH:26+000 to 27+000</p> <p>DRAWING NO. STC/BR/BSROC/BNB/PP/27</p> <p>A3</p>
R5	JUN 2021	MODIFIED DPR																		
R4	JULY 2019	DETAILED PROJECT REPORT																		
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED																		
R2	OCTOBER 2018	FINAL DPR																		
REV.	DATE	DESCRIPTION OF REVISIONS																		

HIP NO. 71 AT CH. 27006.555			
X = 251758.056	Y = 2993767.631		
R (m)	900	Ls (m)	40
Dc(deg)	8.2956	S(m)	0.07
Lc(m)	130.31	Ts(deg)	1.2732
Ts(m)	105.415	Δ(deg)	10.8421
Es(m)	4.114	e(%)	3.160
V(km/hr)	80	Widen(m)	Nil

HIP NO. 72 AT CH. 27837.208			
X = 251452.019	Y = 2994565.821		
R (m)	450	Ls (m)	50
Dc(deg)	30.0812	S(m)	0.23
Lc(m)	236.26	Ts(deg)	3.1831
Ts(m)	173.232	Δ(deg)	35.4474
Es(m)	24.005	e(%)	5.000
V(km/hr)	80	Widen(m)	Nil



Sir No	28/1
Chainage	27+080
Type	Box
Size	1x1.5x1.5m
Proposal	New

TBM-
E251707.759
N2993903.017
Z 83.556

TBM-
E251526.539
N2994364.034
Z 84.188

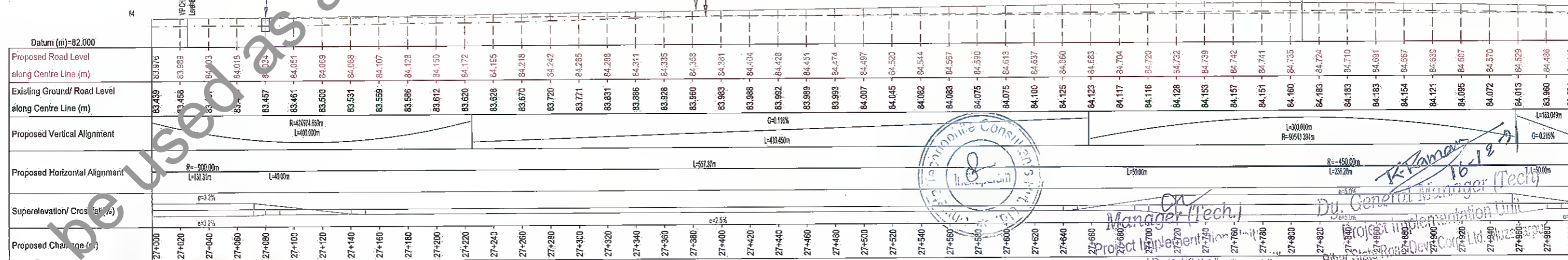
TBM-
E251407.203
N2994585.585
Z 84.305

TBM-
E251622.811
N2984144.292
Z 83.920

Proposed CL
Proposed Carriageway+Paved Shoulder (10.0m)
Proposed Earthen Shoulder (1.0m)

Sir No	28/1
Chainage	27+080
Type	Box
Size	1x1.5x1.5m
Proposal	New

Proposed Road Level along Centreline
Existing Ground/ Road Level along Centreline



REV.	DATE	DESCRIPTION OF REVISIONS
R1	JULY 2019	MODIFIED DPR
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CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014

DRAWN BY: ASHISH RAWAT
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL

TITLE:
 PLAN & PROFILE
 CH:27+000 to 28+000

DRAWING NO.
 STC/BR/BSRDC/BNB/PP/28

SCALE:
 HORIZONTAL SCALE: 1:2000
 VERTICAL SCALE: 1:200

Sheet No. A3

Not to be used as a Bid Document, Only for Reference

Sir No	29/1
Chainage	28+240
Existing Type	Slab
Existing Size	1x3.0m
Proposal	Reconstruction
Proposed Size	1x3.0x2.0m
Proposed Type	Box

HIP NO. 74 AT CH. 28350.639			
X	= 251029.257	Y	= 2994865.019
R (m)	1200	La (m)	
Dc(deg)	12.0923	S(m)	
Lc(m)	253.28	Ta(deg)	
Ts(m)	127.102	Δ(deg)	12.0923
Ea(m)	6.712	e(%)	NC
V(km/hr)	80	Widen(m)	Nil

HIP NO. 75 AT CH. 28658.899			
X	= 250936.796	Y	= 2995109.91
R (m)	650	La (m)	35
Dc(deg)	23.3595	S(m)	0.08
Lc(m)	264.99	Ta(deg)	1.5426
Ts(m)	170.236	Δ(deg)	26.4437
Ea(m)	17.782	e(%)	2.889
V(km/hr)	85	Widen(m)	Nil

Sir No	29/2
Chainage	28+747
Existing Type	Slab
Existing Size	1x3.1m
Proposal	Reconstruction
Proposed Size	1x3.0x2.0m
Proposed Type	Box

Sir No	29/3
Chainage	28+980
Existing Type	Slab
Existing Size	1x3.0m
Proposal	Reconstruction
Proposed Size	1x3.0x2.0m
Proposed Type	Box

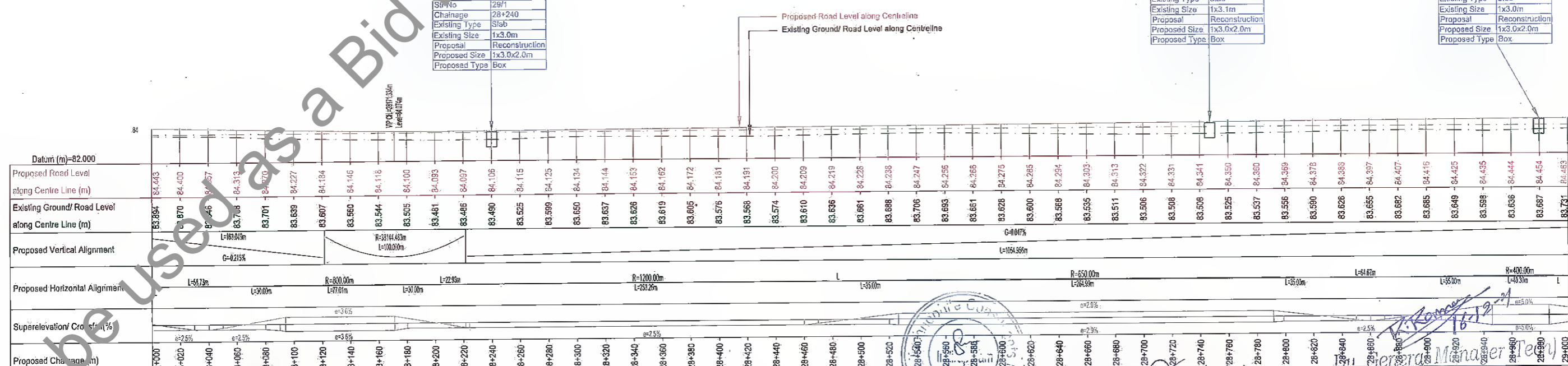
HIP NO. 73 AT CH. 28132.576			
X	= 251197.356	Y	= 2994725.244
R (m)	800	La (m)	30
Dc(deg)	5.5157	S(m)	0.05
Lc(m)	77.01	Ta(deg)	1.0743
Ts(m)	68.59	Δ(deg)	7.6643
Ea(m)	1.843	e(%)	3.556
V(km/hr)	80	Widen(m)	Nil

HIP NO. 76 AT CH. 28965.218			
X	= 250773.76	Y	= 2995413.759
R (m)	400	La (m)	55
Dc(deg)	5.7732	S(m)	0.32
Lc(m)	40.3	Ta(deg)	3.9391
Ts(m)	75.413	Δ(deg)	13.6514
Ea(m)	3.178	e(%)	5.000
V(km/hr)	80	Widen(m)	Nil

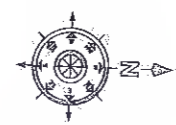
Sir No	29/1
Chainage	28+240
Existing Type	Slab
Existing Size	1x3.0m
Proposal	Reconstruction
Proposed Size	1x3.0x2.0m
Proposed Type	Box

Sir No	29/2
Chainage	28+747
Existing Type	Slab
Existing Size	1x3.1m
Proposal	Reconstruction
Proposed Size	1x3.0x2.0m
Proposed Type	Box

Sir No	29/3
Chainage	28+980
Existing Type	Slab
Existing Size	1x3.0m
Proposal	Reconstruction
Proposed Size	1x3.0x2.0m
Proposed Type	Box



<table border="1"> <tr><td>REV.</td><td>DATE</td><td>DESCRIPTION OF REVISIONS</td></tr> <tr><td>R1</td><td>JULY 2021</td><td>MODIFIED DPR</td></tr> <tr><td>R4</td><td>JULY 2019</td><td>DETAILED PROJECT REPORT</td></tr> <tr><td>R3</td><td>DEC 2018</td><td>CLIENT SUGGESTION INCORPORATED</td></tr> <tr><td>R2</td><td>OCTOBER 2018</td><td>FINAL DPR</td></tr> </table>	REV.	DATE	DESCRIPTION OF REVISIONS	R1	JULY 2021	MODIFIED DPR	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED	R2	OCTOBER 2018	FINAL DPR	<p>CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DPR CONSULTANTS: SAC-Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Road, Ahinsa Khand-I, Indirapuram, Ghaziabad-201014</p>	<p>DRAWN BY: ASHISH RAWAT DESIGN BY: JITENDER KUMAR CHECKED BY: GEETA JINDAL</p>	<p>TITLE: Consultation Unit PROJECT: Bihar State Road Devp Corp PLAN & PROFILE CH:28+000 to 29+000</p>	<p>DRAWING NO. STC/BR/BSRDC/BN/PP/29</p>	<p>HORIZONTAL SCALE: 1:2000 VERTICAL SCALE: 1:200</p>	<p>A3</p>
REV.	DATE	DESCRIPTION OF REVISIONS																					
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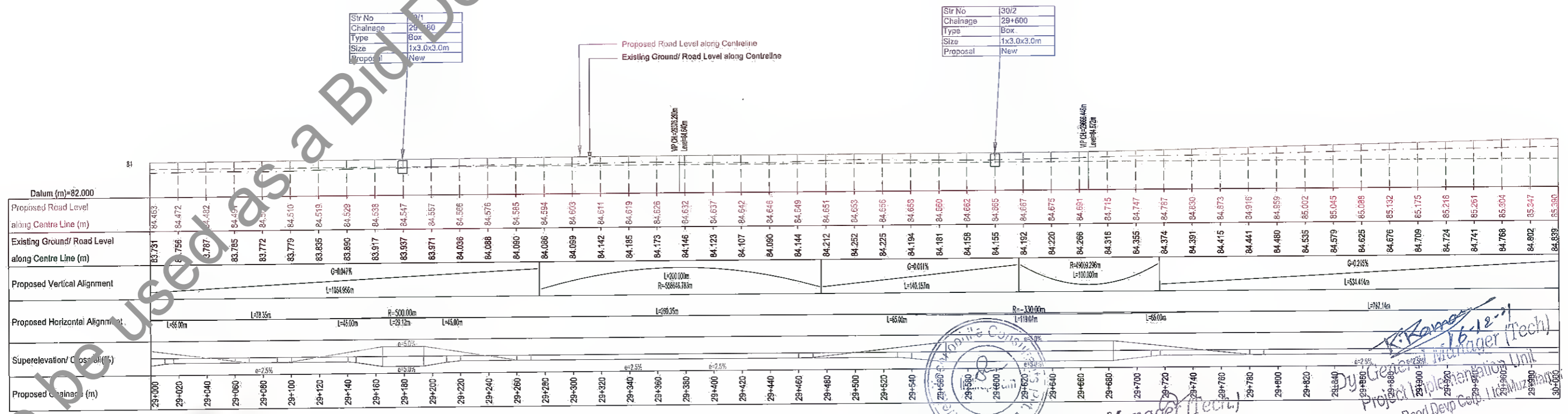
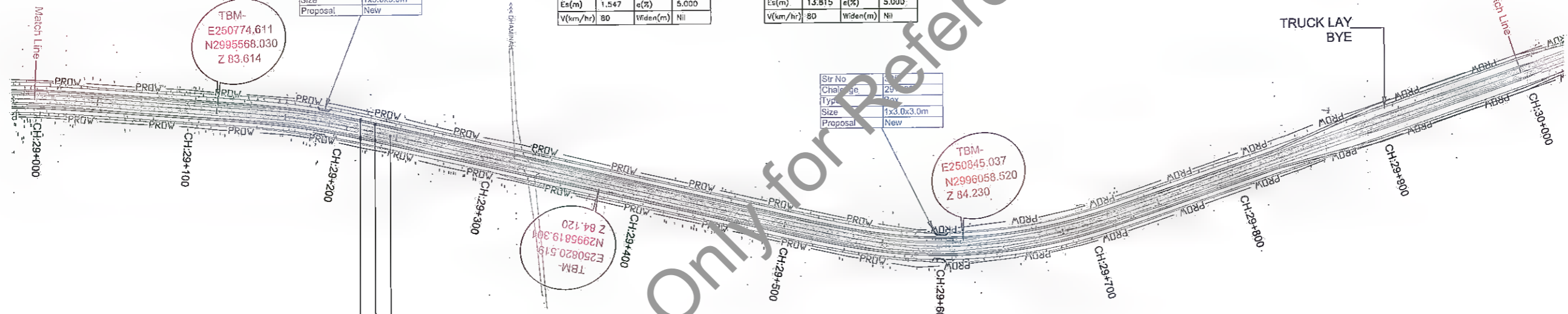


HIP NO. 77 AT CH. 29179.279			
X =	250780.851	Y =	2995627.038
R (m)	500	Ls (m)	45
Dc(deg)	3.3384	S(m)	0.17
Lc(m)	29.12	Ts(deg)	2.5783
Ts(m)	59.637	Δ(deg)	8.4931
Es(m)	1.547	e(%)	5.000
V(km/hr)	80	Wden(m)	Nil

HIP NO. 78 AT CH. 29623.721			
X =	250861.85	Y =	2996066.784
R (m)	330	Ls (m)	65
Dc(deg)	20.6731	S(m)	0.53
Lc(m)	119.07	Ts(deg)	5.6428
Ts(m)	127.138	Δ(deg)	31.9587
Es(m)	13.815	e(%)	5.000
V(km/hr)	80	Wden(m)	Nil

Str No	30/1
Chainage	29+180
Type	Box
Size	1x3.0x3.0m
Proposal	New

Str No	30/2
Chainage	29+600
Type	Box
Size	1x3.0x3.0m
Proposal	New



REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

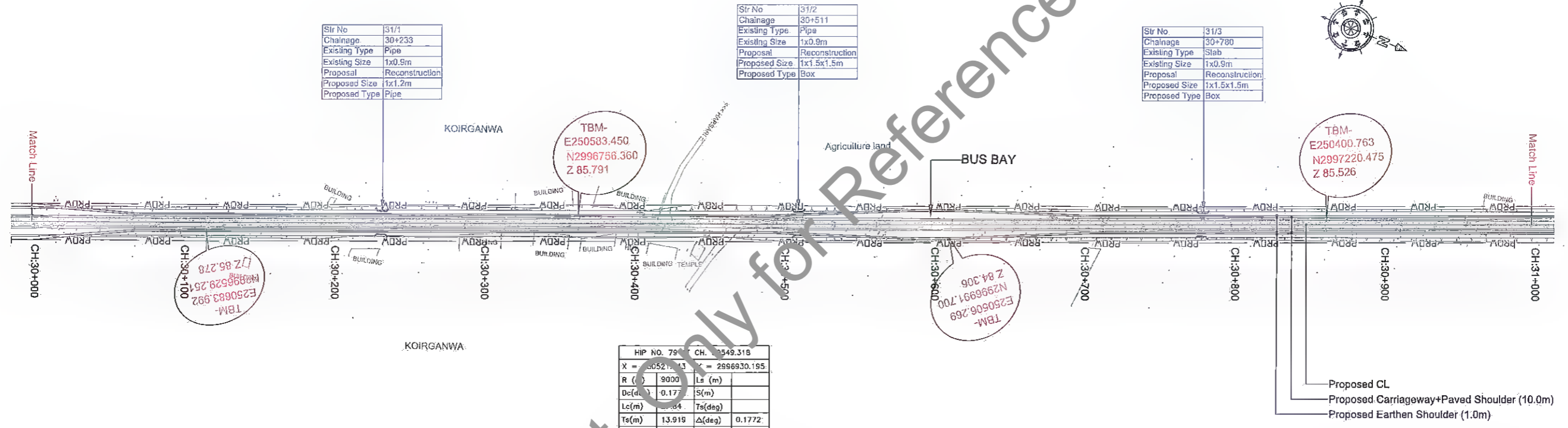
CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

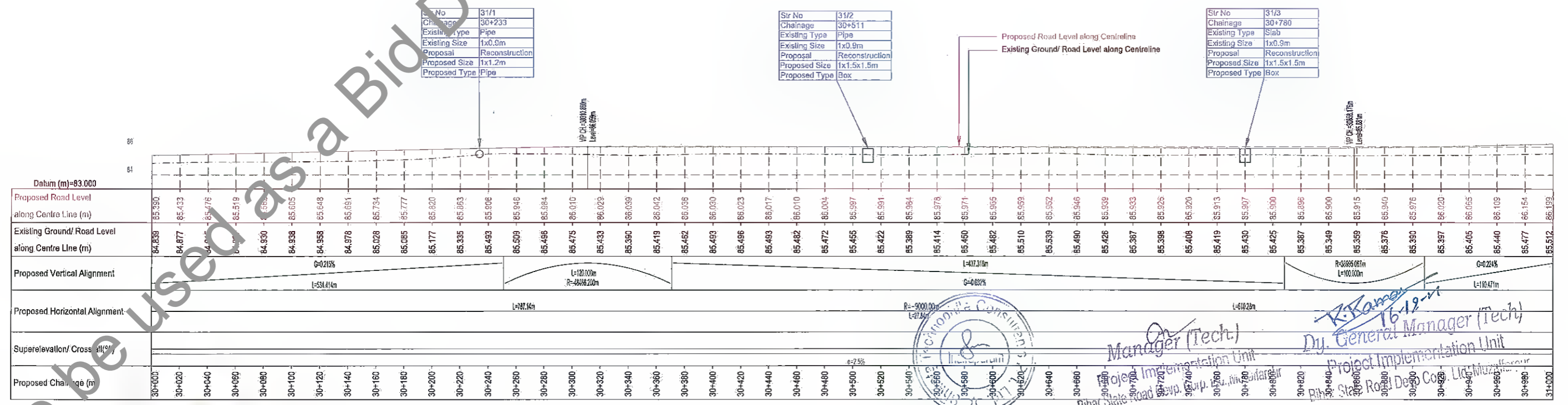
DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
 222-223, 313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014

DRIVEN BY: ASHISH RAWAT
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL

TITLE:
PLAN & PROFILE CH:29+000 TO 30+000
DRAWING NO. STC/BR/BSRDC/BNB/PP/30
SCALE: HORIZONTAL SCALE 1:2000, VERTICAL SCALE 1:200
Sheet No. A3



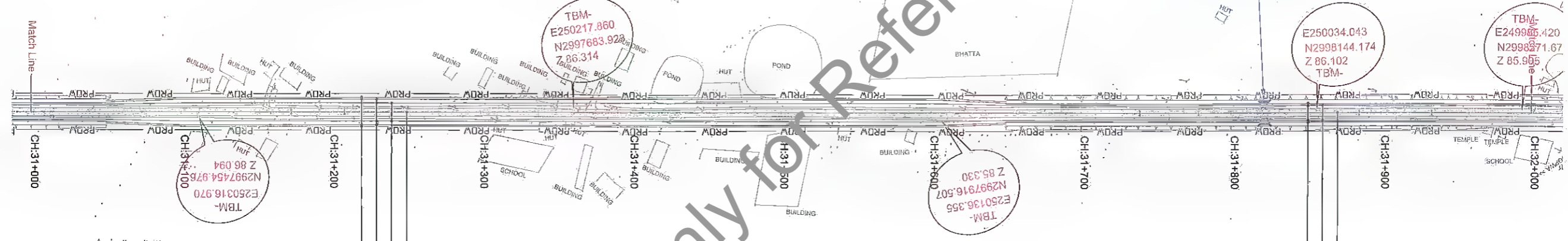
HIP NO.	79	CH.	2549.318
X	= 60521.113	Y	= 2996930.195
R (m)	9000	Ls (m)	
Dc (deg)	-0.177	S(m)	
Lc (m)	13.919	Ts (deg)	
Ts (m)	13.919	Δ(deg)	0.1772
Es (m)	0.011	e(%)	NC
V (km/hr)	100	Width (m)	NR



<table border="1"> <tr><td>R5</td><td>JULY 2021</td><td>MODIFIED DPR</td></tr> <tr><td>R4</td><td>JULY 2019</td><td>DETAILED PROJECT REPORT</td></tr> <tr><td>R3</td><td>DEC 2018</td><td>CLIENT SUGGESTION INCORPORATED.</td></tr> <tr><td>R2</td><td>OCTOBER 2018</td><td>FINAL DPR</td></tr> <tr><td>REV.</td><td>DATE</td><td>DESCRIPTION OF REVISIONS</td></tr> </table>	R5	JULY 2021	MODIFIED DPR	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED.	R2	OCTOBER 2018	FINAL DPR	REV.	DATE	DESCRIPTION OF REVISIONS	<p>CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DPR CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa (Khand-I), Indirapuram, Ghaziabad-201014</p>	<table border="1"> <tr><td>DRAWN BY</td><td>ASHISH RAWAT</td></tr> <tr><td>DESIGN BY</td><td>JITENDER KUMAR</td></tr> <tr><td>CHECKED BY</td><td>GEETA JINDAL</td></tr> <tr><td>HORIZONTAL SCALE</td><td>1:2000</td></tr> <tr><td>VERTICAL SCALE</td><td>1:200</td></tr> </table>	DRAWN BY	ASHISH RAWAT	DESIGN BY	JITENDER KUMAR	CHECKED BY	GEETA JINDAL	HORIZONTAL SCALE	1:2000	VERTICAL SCALE	1:200	<p>TITLE: PLAN & PROFILE CH:30+000 TO 31+000</p> <p>DRAWING NO. STC/BR/BSRDC/BNB/PP/31</p>	<p>A3</p>
R5	JULY 2021	MODIFIED DPR																													
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R3	DEC 2018	CLIENT SUGGESTION INCORPORATED.																													
R2	OCTOBER 2018	FINAL DPR																													
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DRAWN BY	ASHISH RAWAT																														
DESIGN BY	JITENDER KUMAR																														
CHECKED BY	GEETA JINDAL																														
HORIZONTAL SCALE	1:2000																														
VERTICAL SCALE	1:200																														

HIP NO. 80 AT CH. 31191.23			
X = 250283.675	Y = 2997526.567		
R (m)	15000	Ls (m)	
Dc(deg)	0.1353	S(m)	
Lc(m)	35.43	Ta(deg)	
Ts(m)	17.714	Δ(deg)	0.1353
Es(m)	0.01	e(%)	NC
V(km/hr)	100	Widen(m)	Nil

Sir No	32/1
Chainage	31+821
Existing Type	Slab
Existing Size	1x1.5m
Proposal	Reconstruction
Proposed Size	1x2.0x2.0m
Proposed Type	Box



Agriculture land

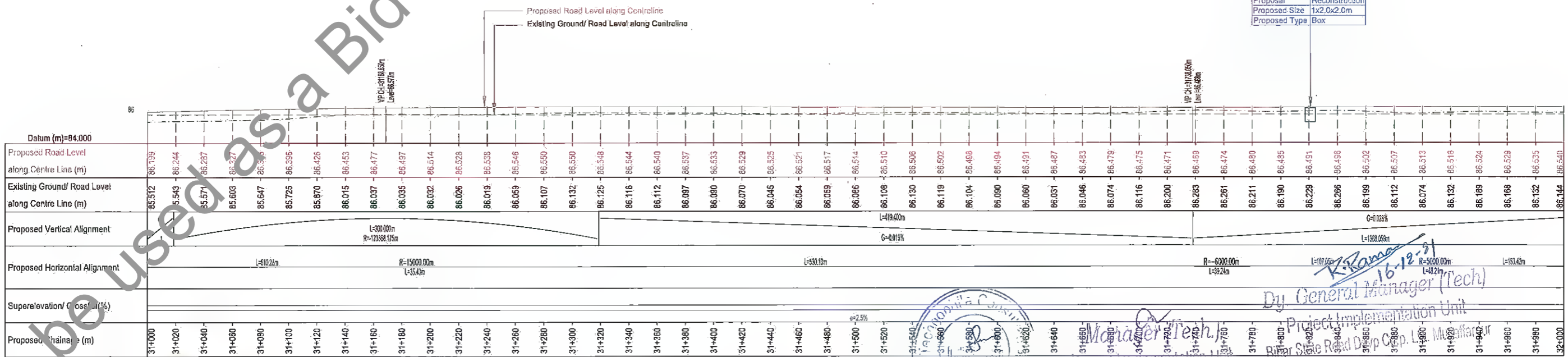
- Proposed CL
- Proposed Carriageway 12.0m
- Proposed Paver Block 2.5m
- Proposed Drain (1.0m)

HIP NO. B1 AT CH. 31758.694			
X = 250074.994	Y = 2998054.266		
R (m)	6000	Ls (m)	
Dc(deg)	0.3747	S(m)	
Lc(m)	39.24	Ta(deg)	
Ts(m)	19.519	Δ(deg)	0.3747
Es(m)	0.032	e(%)	NC
V(km/hr)	100	Widen(m)	Nil

HIP NO. B2 AT CH. 31909.471			
X = 250018.631	Y = 2998194.114		
R (m)	5000	Ls (m)	
Dc(deg)	0.5524	S(m)	
Lc(m)	48.21	Ta(deg)	
Ts(m)	24.105	Δ(deg)	0.5524
Es(m)	0.058	e(%)	NC
V(km/hr)	100	Widen(m)	Nil

- Proposed CL
- Proposed Carriageway+Paved Shoulder (10.0m)
- Proposed Earthen Shoulder (1.0m)

Sir No	32/1
Chainage	31+821
Existing Type	Slab
Existing Size	1x1.5m
Proposal	Reconstruction
Proposed Size	1x2.0x2.0m
Proposed Type	Box



REV.	DATE	DESCRIPTION OF REVISIONS
R1	JULY 2019	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

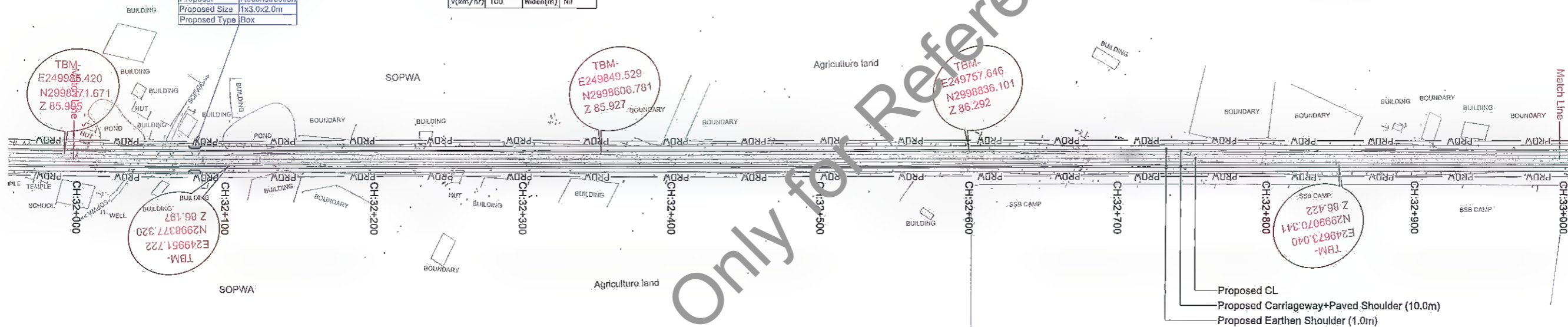
DRAWN BY	ASHISH RAWAT
DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	1:2000
VERTICAL SCALE	1:200

TITLE:
 PLAN & PROFILE
 CH:31+000 to 32+000

DRAWING NO.
 STC/BR/BSRDC/BNB/PP/32

HIP NO. 83 AT CH. 32106.288			
X =	249946.821	Y =	2998377.363
R (m)	4500	Ls (m)	
Dc(deg)	0.4914	S(m)	
Lc(m)	38.59	Ts(deg)	
Ts(m)	19.296	Δ(deg)	0.4914
Es(m)	0.041	e(%)	NC
V(km/hr)	100	Widen(m)	Nil

Str No	33/1
Chainage	32+082
Existing Type	Slab
Existing Size	1x3.0m
Proposal	Reconstruction
Proposed Size	1x3.0x2.0m
Proposed Type	Box



Str No	33/1
Chainage	32+082
Existing Type	Slab
Existing Size	1x3.0m
Proposal	Reconstruction
Proposed Size	1x3.0x2.0m
Proposed Type	Box

Datum (m)=84.000	
Proposed Road Level along Centre Line (m)	86.540, 86.546, 86.551, 86.557, 86.563, 86.573, 86.579, 86.584, 86.590, 86.595, 86.601, 86.606, 86.612, 86.617, 86.623, 86.628, 86.634, 86.639, 86.645, 86.650, 86.656, 86.661, 86.667, 86.672, 86.678, 86.683, 86.689, 86.694, 86.700, 86.705, 86.711, 86.716, 86.722, 86.727, 86.733, 86.738, 86.744, 86.749, 86.755, 86.760, 86.766, 86.771, 86.777, 86.782, 86.788, 86.793, 86.799, 86.804, 86.810, 86.815
Existing Ground/ Road Level along Centre Line (m)	86.744, 86.233, 86.227, 86.215, 86.157, 86.107, 86.057, 86.051, 86.053, 86.056, 86.062, 86.068, 86.050, 86.016, 86.994, 86.984, 86.988, 86.997, 86.949, 86.949, 86.984, 86.016, 86.045, 86.069, 86.088, 86.100, 86.112, 86.108, 86.099, 86.110, 86.139, 86.159, 86.153, 86.147, 86.147, 86.187, 86.226, 86.177, 86.110, 86.073, 86.091, 86.106, 86.121, 86.136, 86.155, 86.185, 86.214, 86.235, 86.257, 86.284
Proposed Vertical Alignment	9+0.02% L=168.05m
Proposed Horizontal Alignment	L=131.82m, R=4500.00m, L=167.20m
Superelevation/ Cross-slopes	e=2.5%
Proposed Chainage (m)	32+000, 32+020, 32+040, 32+060, 32+080, 32+100, 32+120, 32+140, 32+160, 32+180, 32+200, 32+220, 32+240, 32+260, 32+280, 32+300, 32+320, 32+340, 32+360, 32+380, 32+400, 32+420, 32+440, 32+460, 32+480, 32+500, 32+520, 32+540, 32+560, 32+580, 32+600, 32+620, 32+640, 32+660, 32+680, 32+700, 32+720, 32+740, 32+760, 32+780, 32+800, 32+820, 32+840, 32+860, 32+880, 32+900, 32+920, 32+940, 32+960, 32+980, 33+000

R5	JULY 2021	MODIFIED DPR	CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)	PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)	DPR CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd. 222-223, 313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014	DRAWN BY	ASHISH RAWAT	TITLE: PLAN & PROFILE CH:32+000 to 33+000		
R4	JULY 2019	DETAILED PROJECT REPORT				DESIGN BY	JITENDER KUMAR			
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED				CHECKED BY	GEETA JINDAL			
R2	OCTOBER 2018	FINAL DPR				HORIZONTAL SCALE	1:2000		VERTICAL SCALE	1:200
REV.	DATE	DESCRIPTION OF REVISIONS				DRAWING NO. STC/BR/BSRDC/BNB/PP/33			A3	

HIP NO. 84 AT CH. 33199.526

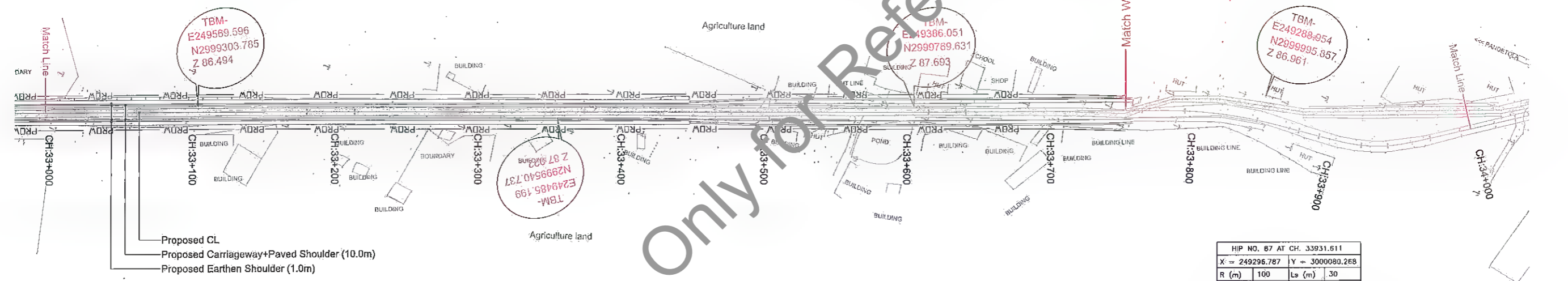
X = 249539.232	Y = 2999391.78
R (m) 5000	La (m)
Dc(deg) 0.3836	S(m)
Lc(m) 33.48	Ts(deg)
Ts(m) 16.738	Δ(deg) 0.3836
Es(m) 0.028	e(%) NC
V(km/hr) 100	Widen(m) Nil

HIP NO. 85 AT CH. 33630.38

X = 249381.278	Y = 2999792.637
R (m) 3000	La (m)
Dc(deg) 0.4947	S(m)
Lc(m) 25.9	Ts(deg)
Ts(m) 12.951	Δ(deg) 0.4947
Es(m) 0.028	e(%) NC
V(km/hr) 100	Widen(m) Nil

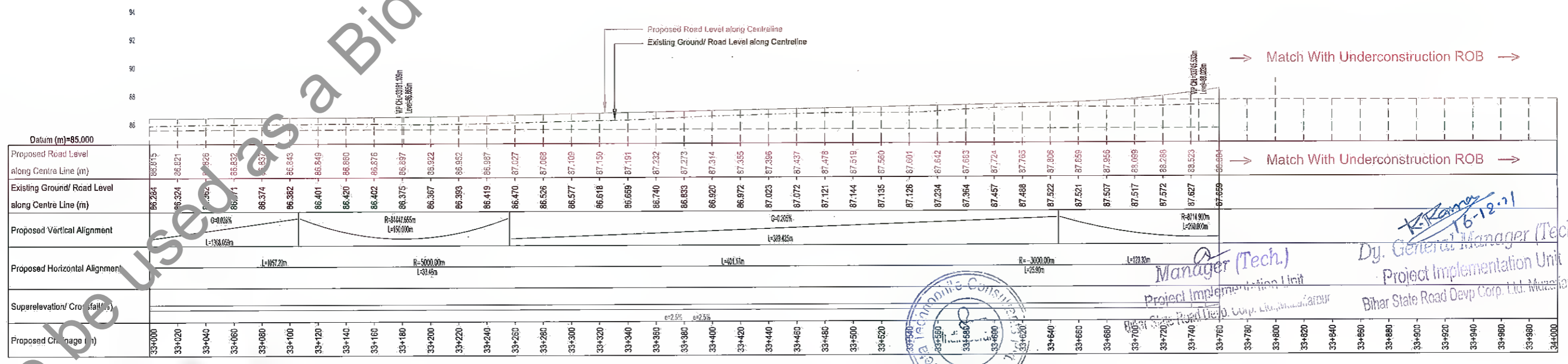
HIP NO. 86 AT CH. 33871.14

X = 249309.711	Y = 299970.676
R (m) 30	La (m) 30
Dc(deg) 73.6	S(m) 0.13
Lc(m) 50.0	Ts(deg) 2.8848
Ts(m) 55.754	Δ(deg) 15.466
Es(m) 2.884	e(%) 3.704
V(km/hr) 50	Widen(m) 0.6

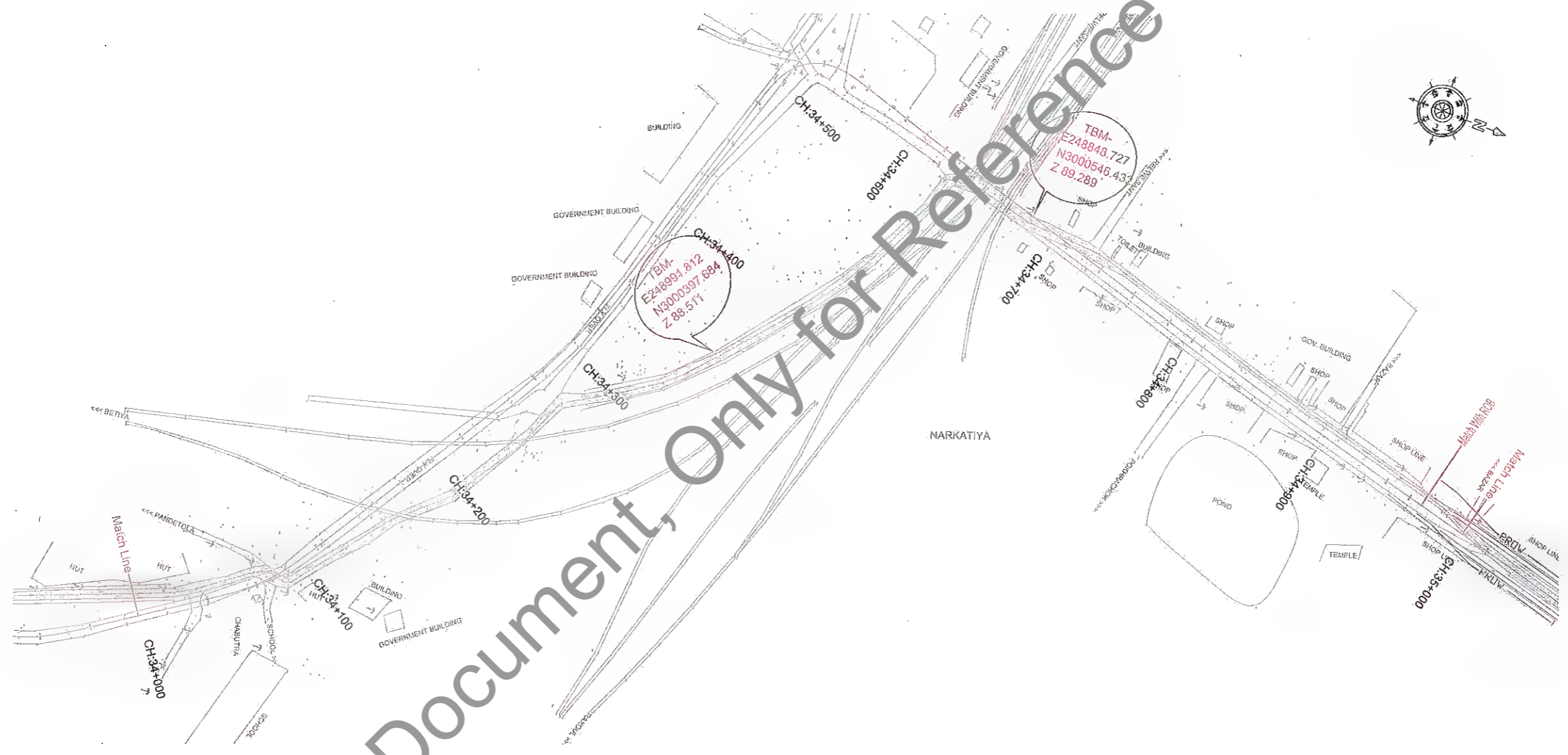


HIP NO. 87 AT CH. 33931.611

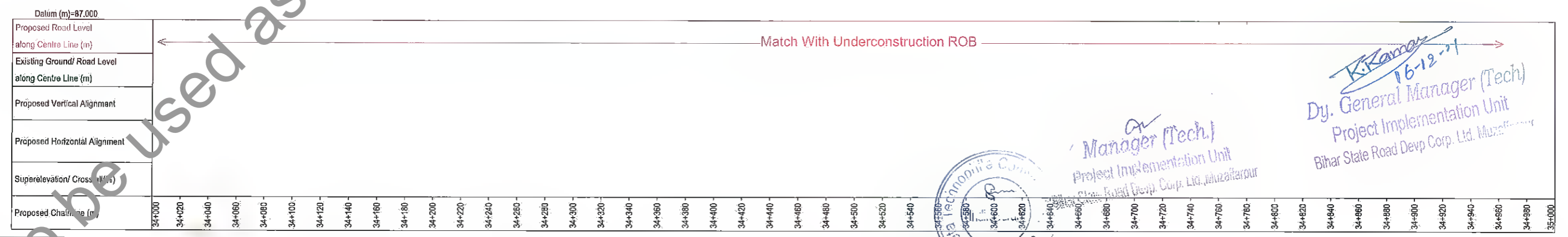
X = 249296.787	Y = 3000080.268
R (m) 100	La (m) 30
Dc(deg) -10.8982	S(m) 0.38
Lc(m) 18.67	Ts(deg) 8.5944
Ts(m) 39.911	Δ(deg) 27.8869
Es(m) 3.428	e(%) 4.000
V(km/hr) 30	Widen(m) 0.9




<table border="1"> <tr><td>REV.</td><td>DATE</td><td>DESCRIPTION OF REVISIONS</td></tr> <tr><td>R5</td><td>JULY 2021</td><td>MODIFIED DPR</td></tr> <tr><td>R4</td><td>JULY 2019</td><td>DETAILED PROJECT REPORT</td></tr> <tr><td>R3</td><td>DEC 2018</td><td>CLIENT SUGGESTION INCORPORATED</td></tr> <tr><td>R2</td><td>OCTOBER 2018</td><td>FINAL DPR</td></tr> </table>	REV.	DATE	DESCRIPTION OF REVISIONS	R5	JULY 2021	MODIFIED DPR	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED	R2	OCTOBER 2018	FINAL DPR	<p>CLIENT: BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)</p>	<p>PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)</p>	<p>DRP CONSULTANTS: Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014</p>	<table border="1"> <tr><td>DRAWN BY</td><td>ASHISH RAWAT</td></tr> <tr><td>DESIGN BY</td><td>JITENDER KUMAR</td></tr> <tr><td>CHECKED BY</td><td>GEETA JINDAL</td></tr> <tr><td>HORIZONTAL SCALE</td><td>1:2000</td></tr> <tr><td>VERTICAL SCALE</td><td>1:200</td></tr> </table>	DRAWN BY	ASHISH RAWAT	DESIGN BY	JITENDER KUMAR	CHECKED BY	GEETA JINDAL	HORIZONTAL SCALE	1:2000	VERTICAL SCALE	1:200	<p>TITLE: PLAN & PROFILE CH:33+000 to 34+000</p> <p>DRAWING NO. STC/BR/BSRDC/BNB/PP/34</p>	<p>A3</p>
REV.	DATE	DESCRIPTION OF REVISIONS																													
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DRAWN BY	ASHISH RAWAT																														
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CHECKED BY	GEETA JINDAL																														
HORIZONTAL SCALE	1:2000																														
VERTICAL SCALE	1:200																														



Match With Underconstruction ROB



REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
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CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:

Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

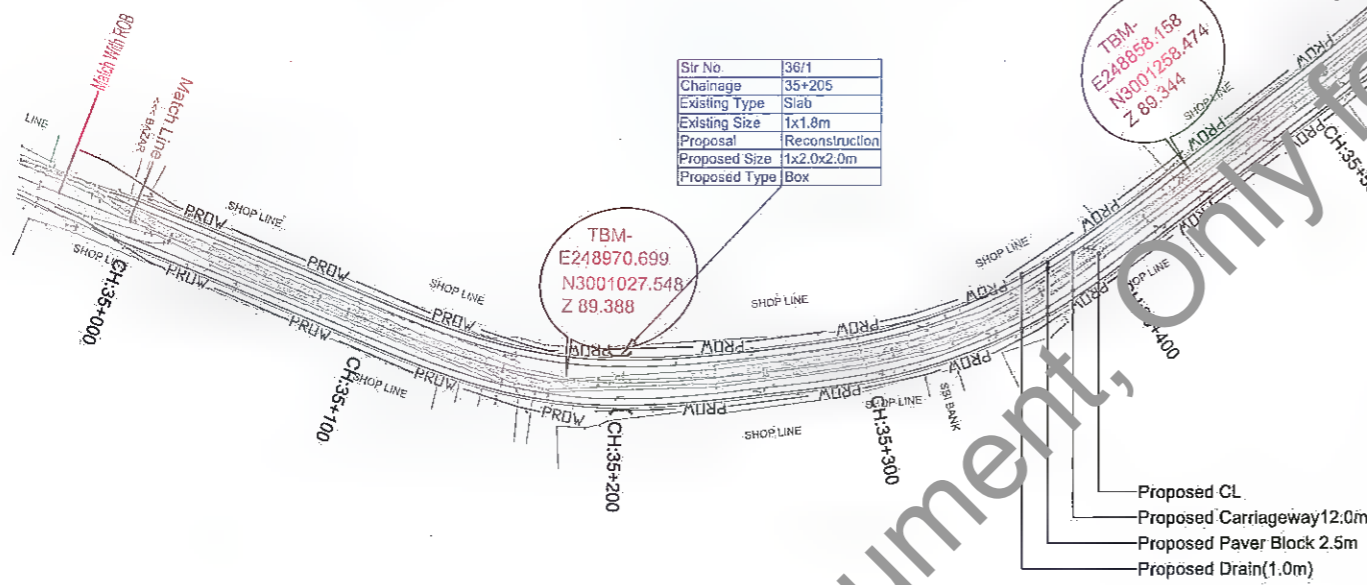
DRAWN BY: ASHISH RAWAT
DESIGN BY: JITENDER KUMAR
CHECKED BY: GEETA JINDAL

TITLE:
 PLAN & PROFILE
 CH:34+000 to 35+000
DRAWING NO.:
 STC/BR/BSRDC/BNB/PP/35

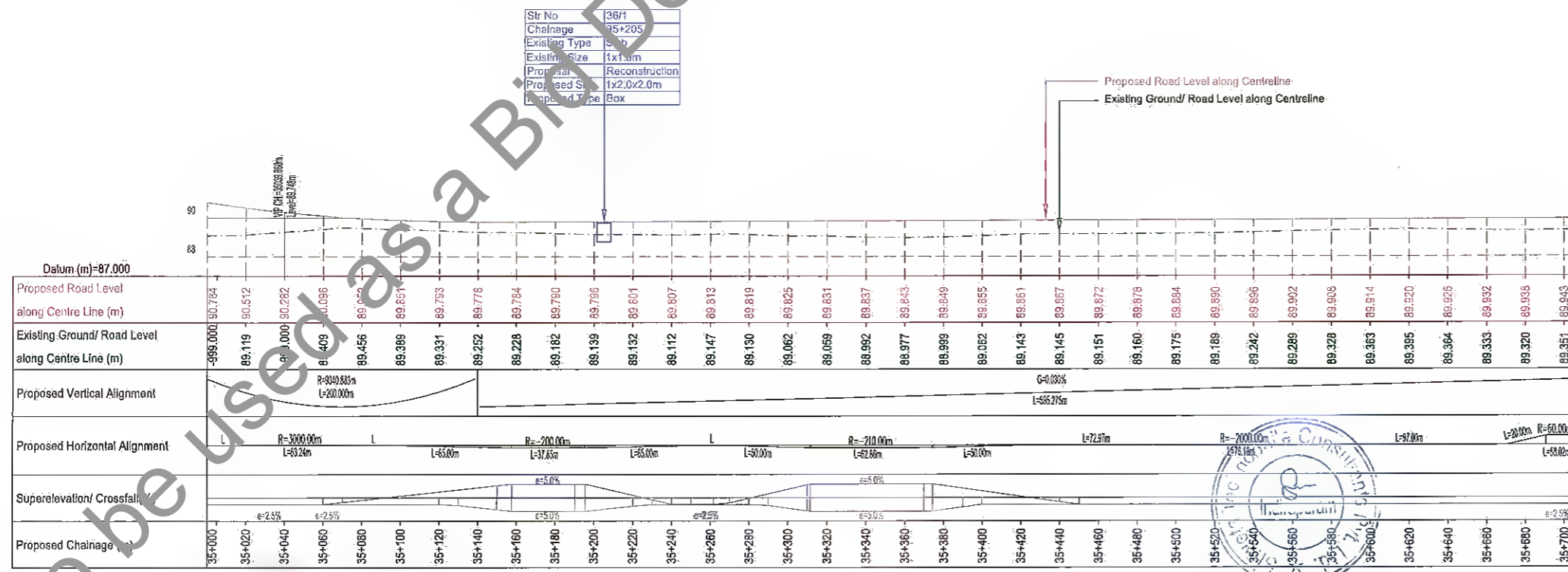
K. Kumar
 16-12-21
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp Corp. Ltd. Muzaffarpur

Ar
 Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp Corp. Ltd. Muzaffarpur

HIP NO. 94 AT CH. 35048.617			HIP NO. 95 AT CH. 35176.544			HIP NO. 98 AT CH. 35719.579		
X = 248948.149	Y = 3000896.692		X = 248979.986	Y = 3001021.48		X = 248660.548	Y = 3001452.121	
R (m)	3000	La (m)	R (m)	200	La (m)	R (m)	80	La (m)
Dc(deg)	1.2078	S(m)	Dc(deg)	10.8429	S(m)	Dc(deg)	55.4076	S(m)
Lc(m)	63.24	Ts(deg)	Lc(m)	37.85	Ts(deg)	Lc(m)	58.02	Ts(deg)
Ta(m)	31.622	Δ(deg)	Ta(m)	85.291	Δ(deg)	Ta(m)	55.834	Δ(deg)
Es(m)	0.167	e(%)	Es(m)	7.708	e(%)	Es(m)	15.732	e(%)
V(km/hr)	100	Widen(m)	V(km/hr)	65	Widen(m)	V(km/hr)	15	Widen(m)



HIP NO. 96 AT CH. 35342.994			HIP NO. 97 AT CH. 35535.48		
X = 248938.179	Y = 3001185.579		X = 248800.787	Y = 3001322.554	
R (m)	210	La (m)	R (m)	2000	La (m)
Dc(deg)	17.1502	S(m)	Dc(deg)	2.1825	S(m)
Lc(m)	62.86	Ts(deg)	Lc(m)	76.18	Ts(deg)
Ta(m)	82.954	Δ(deg)	Ta(m)	38.096	Δ(deg)
Es(m)	8.335	e(%)	Es(m)	0.363	e(%)
V(km/hr)	65	Widen(m)	V(km/hr)	100	Widen(m)



K. Rama
16-12-17
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

A
Manager (Tech)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2022	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
 Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:

Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

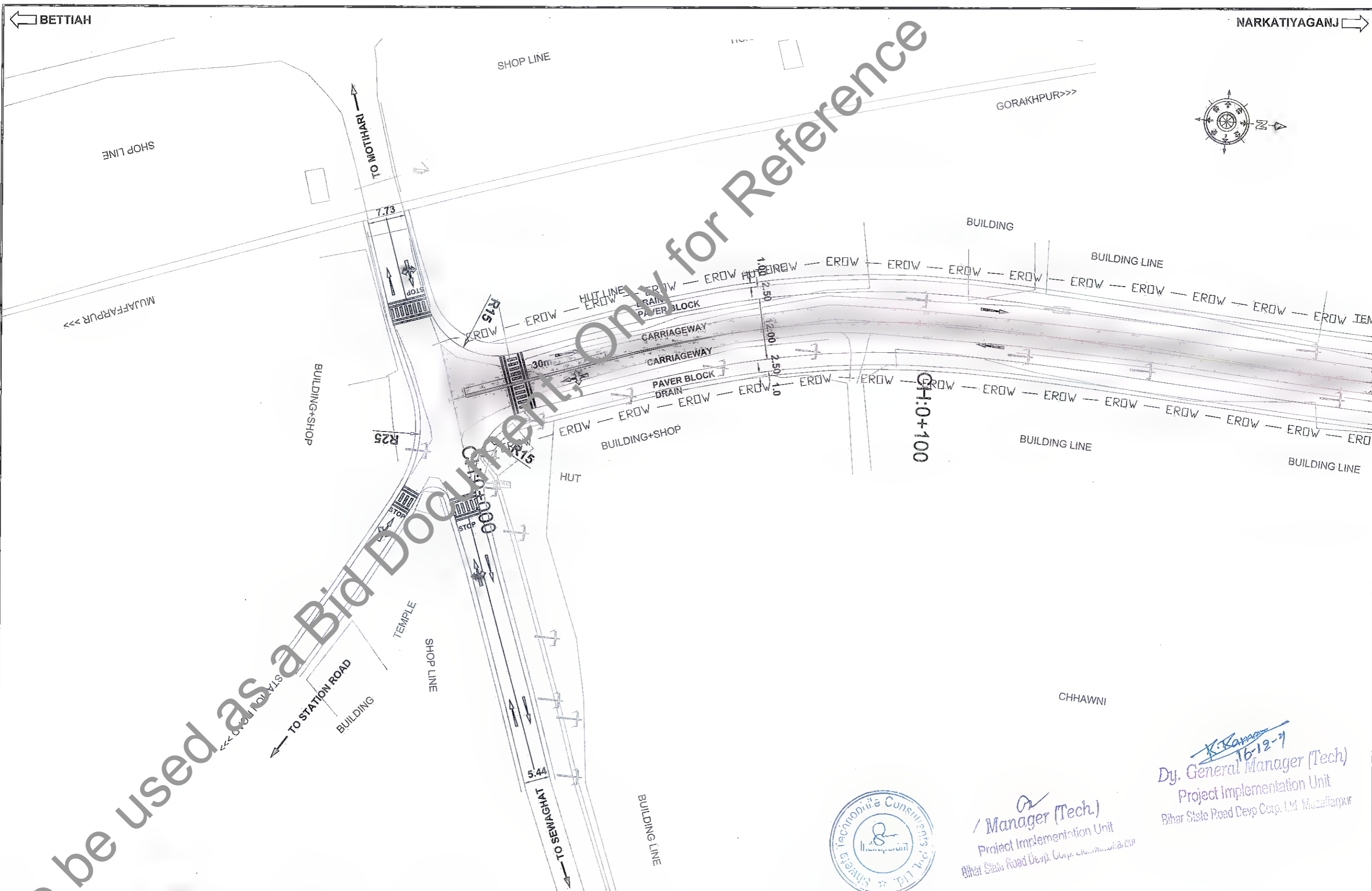
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DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
HORIZONTAL SCALE	VERTICAL SCALE
1:2000	1:200

TITLE:	
PLAN & PROFILE	
CH:35+000 to 35+700	
DRAWING NO.	
STC/BR/BSRDC/BNB/PP/36	

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MAJOR JUNCTION






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K. Karan
 16-12-19
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

A
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

R5	JULY 2021	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR
REV.	DATE	DESCRIPTION OF REVISIONS

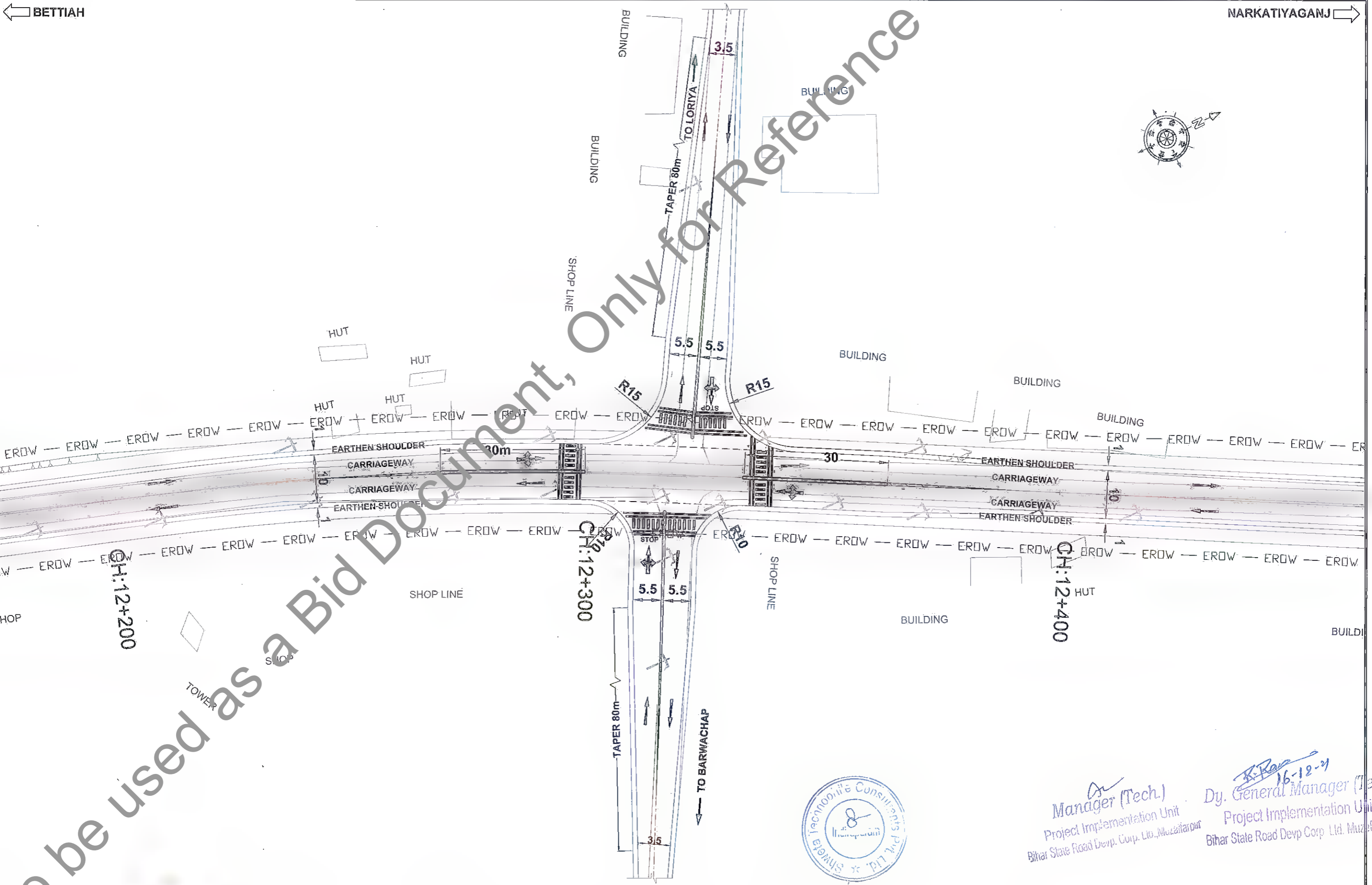
CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
STC Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014

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DESIGN BY	JITENDER KUMAR
CHECKED BY	GEETA JINDAL
SCALE	N.T.S.

TITLE:	
MAJOR JUNCTION AT CH. 0+000	
DRAWING NO.	STC/BR/BSRDC/BNB/MR/JUN/01
	A3




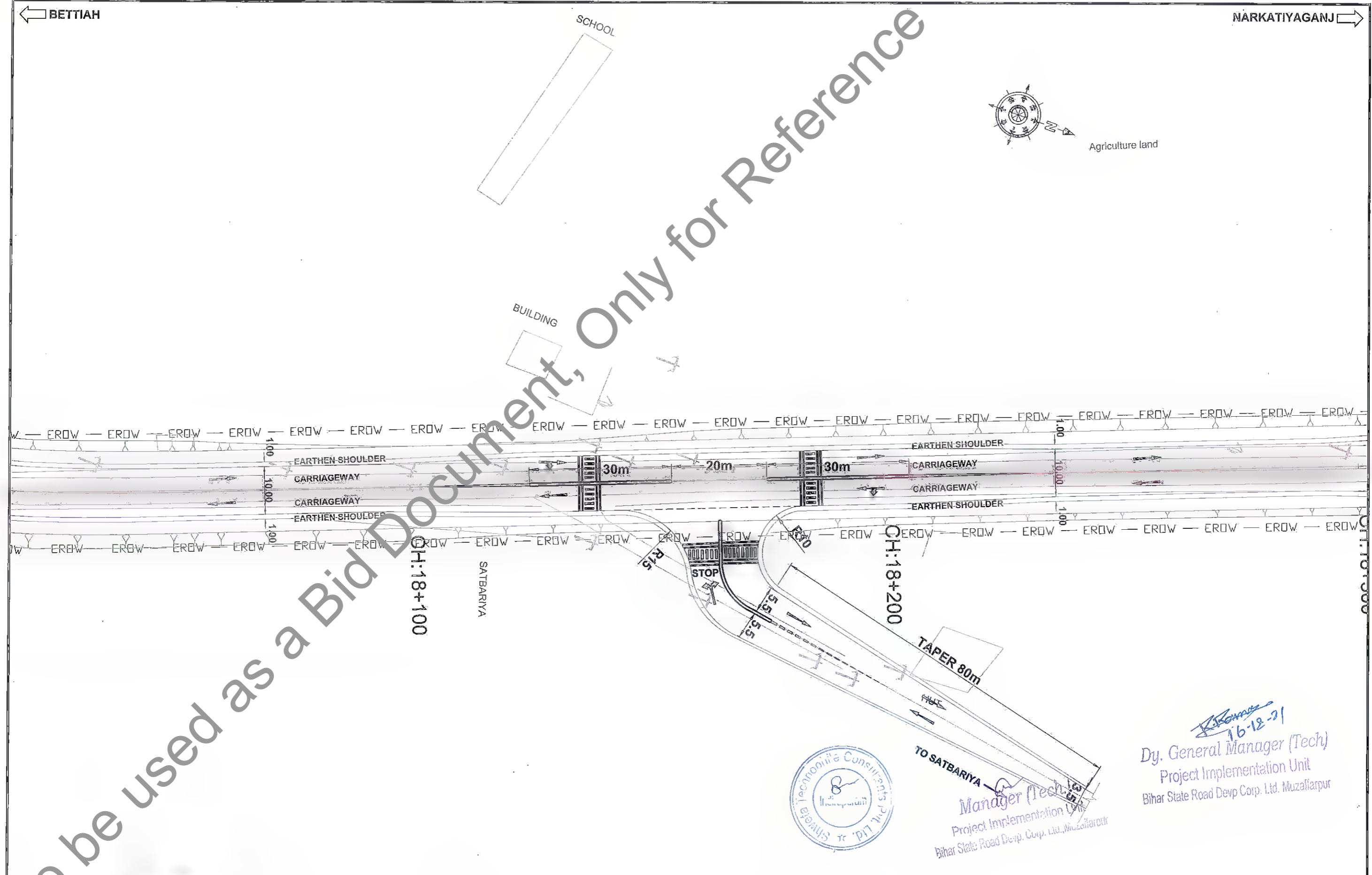
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(Signature)
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

(Signature)
 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp Corp Ltd. Muzaffarpur


<table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION OF REVISIONS</th> </tr> <tr> <td>R5</td> <td>JULY 2019</td> <td>MODIFIED DPR</td> </tr> <tr> <td>R4</td> <td>JULY 2019</td> <td>DETAILED PROJECT REPORT</td> </tr> <tr> <td>R3</td> <td>DEC 2018</td> <td>CLIENT SUGGESTION INCORPORATED</td> </tr> <tr> <td>R2</td> <td>OCTOBER 2018</td> <td>FINAL DPR</td> </tr> </table>	REV.	DATE	DESCRIPTION OF REVISIONS	R5	JULY 2019	MODIFIED DPR	R4	JULY 2019	DETAILED PROJECT REPORT	R3	DEC 2018	CLIENT SUGGESTION INCORPORATED	R2	OCTOBER 2018	FINAL DPR	CLIENT:  BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)	PROJECT: Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)	DPR CONSULTANTS: 570 Shweta Technophile Consultants Pvt. Ltd. 222-223,313, Rajhans Plaza, Ahinsa Khand-I, Indrapuram, Ghaziabad-201014	<table border="1"> <tr> <td>DRAWN BY</td> <td>ARIJUN SINGH</td> </tr> <tr> <td>DESIGN BY</td> <td>JITENDER KUMAR</td> </tr> <tr> <td>CHECKED BY</td> <td>GEETA JINDAL</td> </tr> <tr> <td>SCALE</td> <td>N.T.S.</td> </tr> </table>	DRAWN BY	ARIJUN SINGH	DESIGN BY	JITENDER KUMAR	CHECKED BY	GEETA JINDAL	SCALE	N.T.S.	<table border="1"> <tr> <td colspan="2">TITLE:</td> </tr> <tr> <td colspan="2">MAJOR JUNCTION AT CH. 12+320</td> </tr> <tr> <td>DRAWING NO.</td> <td>STC/BR/BSRDC/BNB/MJR/JUN/02</td> </tr> <tr> <td></td> <td>A3</td> </tr> </table>	TITLE:		MAJOR JUNCTION AT CH. 12+320		DRAWING NO.	STC/BR/BSRDC/BNB/MJR/JUN/02		A3
REV.	DATE	DESCRIPTION OF REVISIONS																																		
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	A3																																			



Manager (Tech)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd., Muzaffarpur

16-12-21
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

R5	JULY 2021	MODIFIED DPR
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REV.	DATE	DESCRIPTION OF REVISIONS

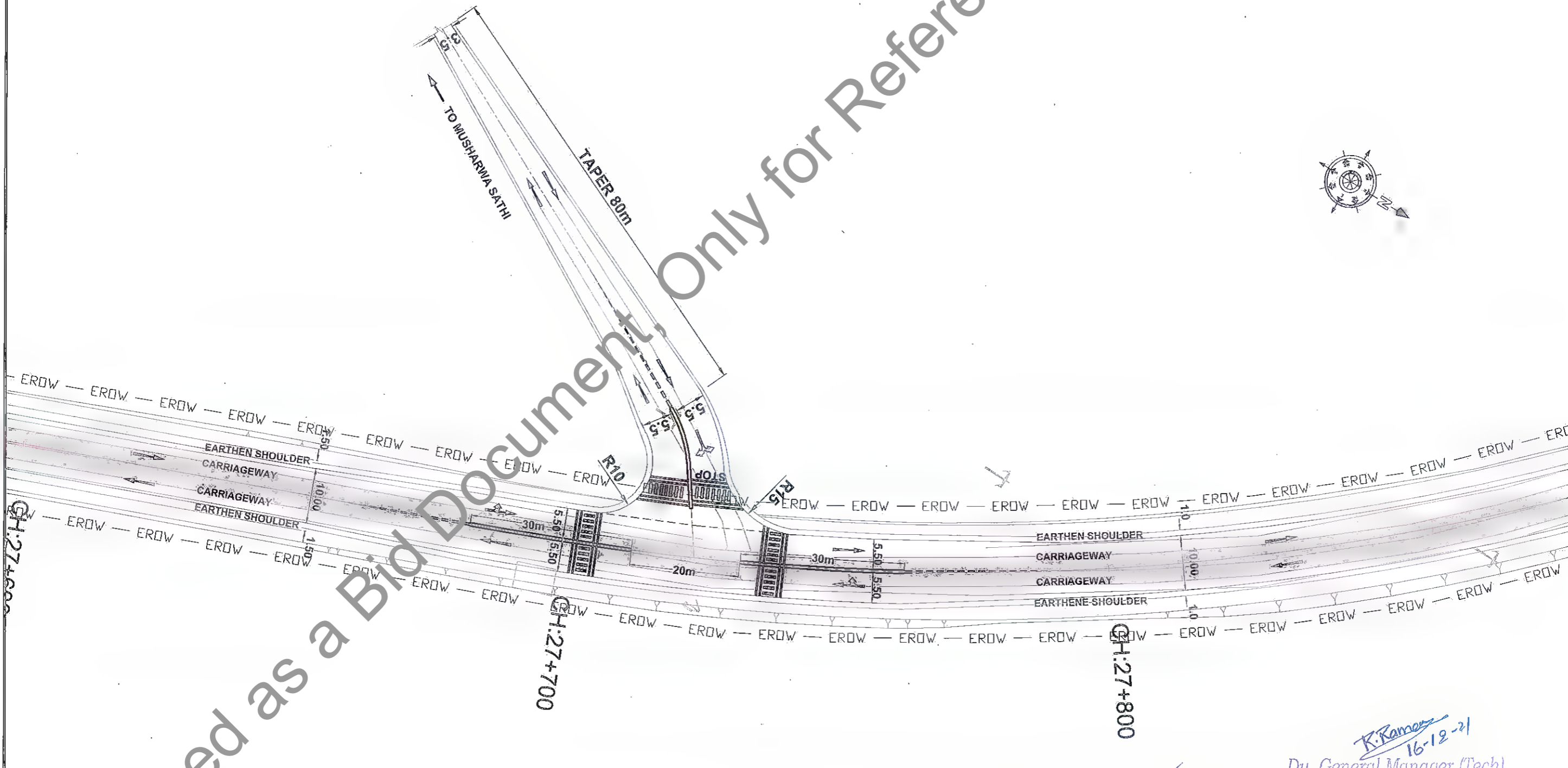
CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

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CHECKED BY	GEETA JINDAL
SCALE	N.T.S.

TITLE:
 MAJOR JUNCTION AT CH. 18+140
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K. Ramon
16-12-21
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muzaffarpur

[Signature]
Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

R5	JULY 2021	MODIFIED DPR
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R3	DEC 2018	CLIENT SUGGESTION INCORPORATED
R2	OCTOBER 2018	FINAL DPR
REV.	DATE	DESCRIPTION OF REVISIONS

CLIENT:

BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
 (A GOVERNMENT OF BIHAR UNDERTAKING)

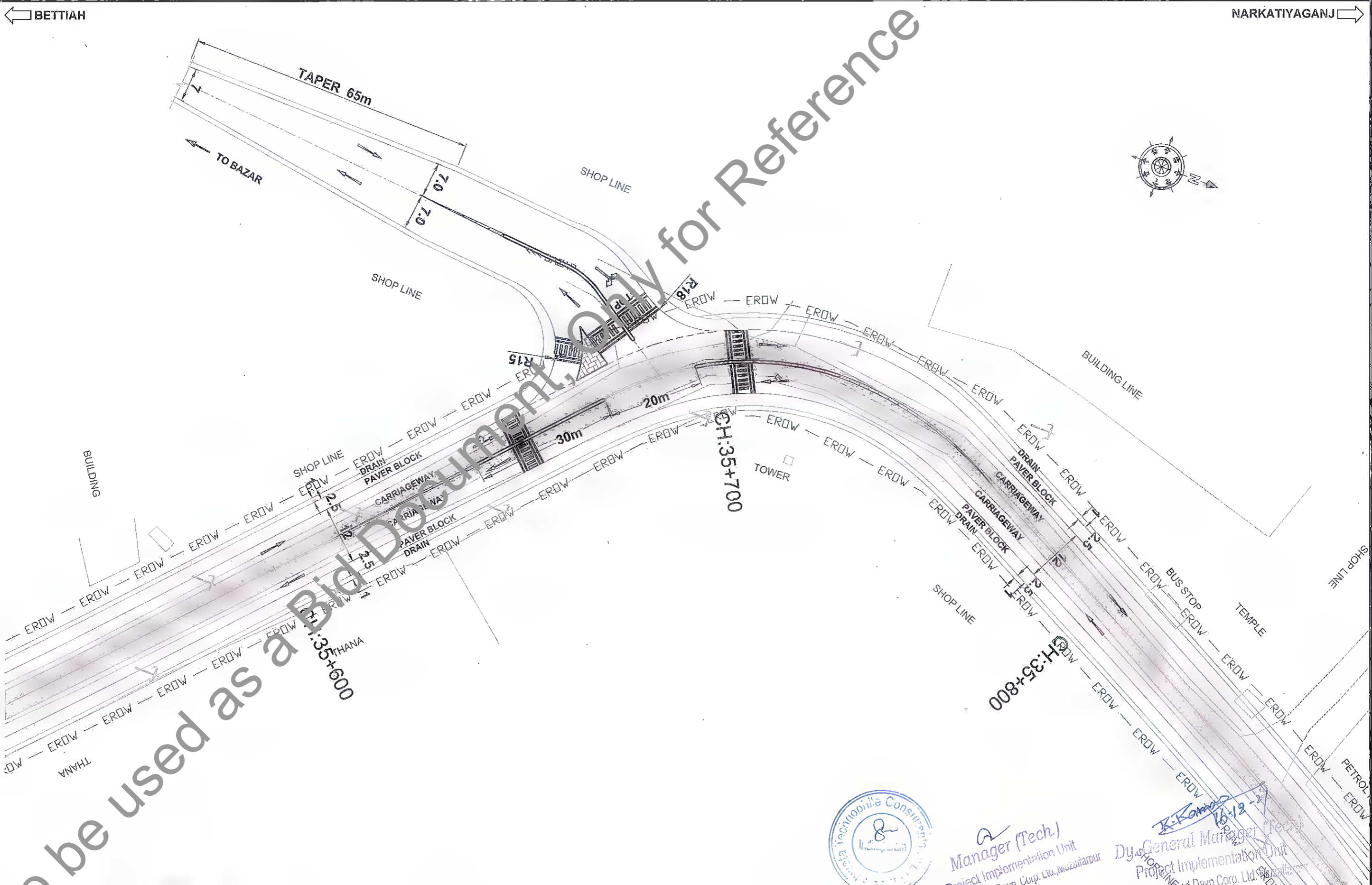
PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
S70 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indirapuram,
 Ghaziabad-201014

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SCALE	N.T.S.

TITLE:
 MAJOR JUNCTION
 AT CH. 27+730

DRAWING NO.
 STC/BR/BSRDC/BNB/MJR/JUN/04



REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2021	MODIFIED DPR
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 (A GOVERNMENT OF BIHAR UNDERTAKING)

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Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
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 222-223,313, Rajhans Plaza,
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 Ghazlabad-201014

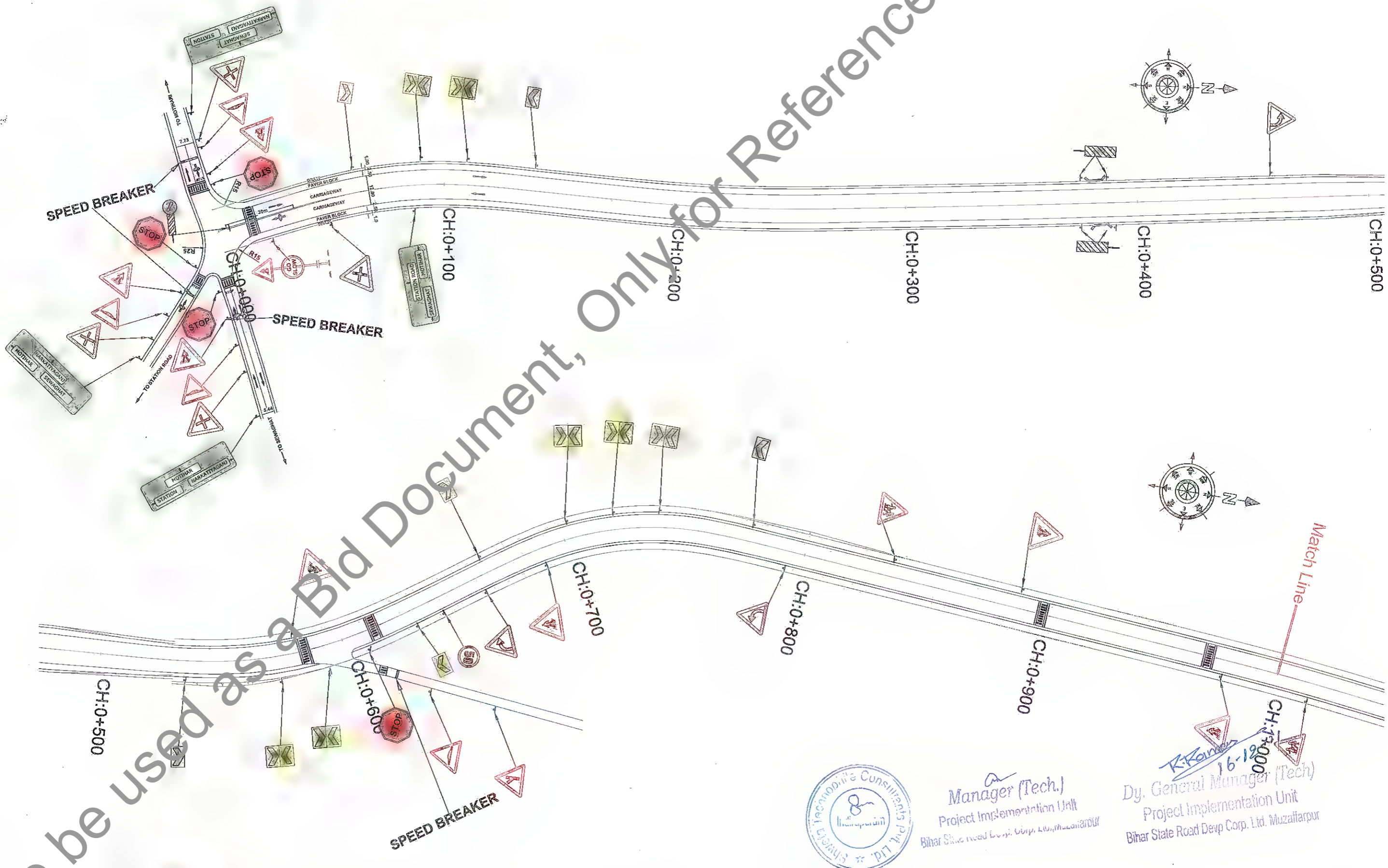
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CHECKED BY: GEETA JINDAL
SCALE: N.T.S.

TITLE:
 MAJOR JUNCTION
 AT CH. 35+700
DRAWING NO.
 STC/BR/BSRDC/BNB/MJR/JUN/05

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ROAD SIGNS






Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

16-12-2019
R.K. Singh
Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp Corp. Ltd. Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2019	MODIFIED DPR
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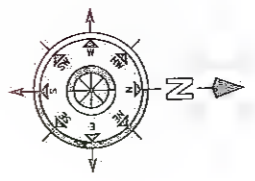
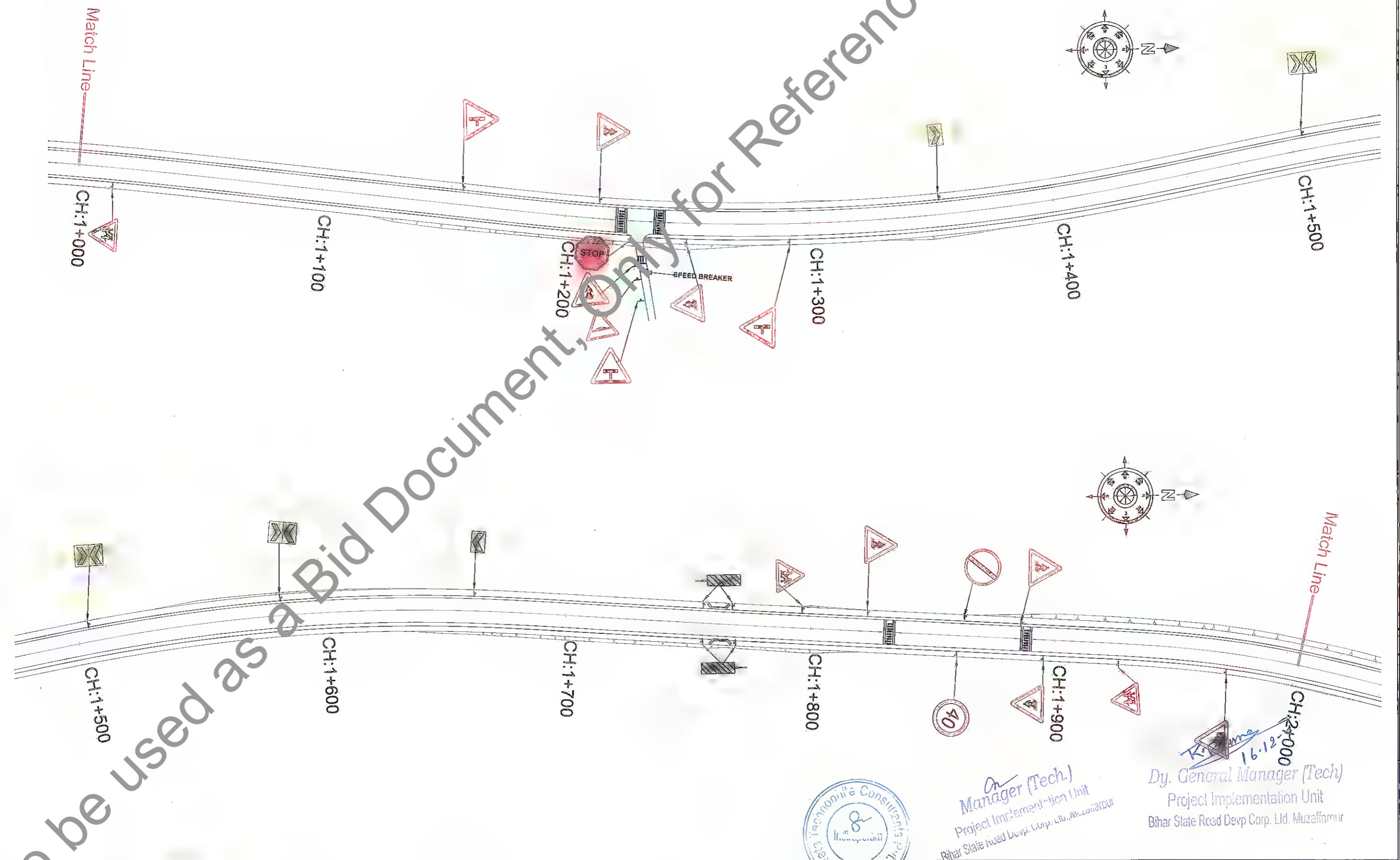
CLIENT:
 **BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA (A GOVERNMENT OF BIHAR UNDERTAKING)**

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
Shweta Technophile Consultants Pvt. Ltd.
222-223,313, Rajhans Plaza,
Ahinsa Khand-I, Indrapuram,
Ghaziabad-201014.

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CHECKED BY: VIKRANT KUMAR
SCALE :- 1:1000

TITLE:
ROAD SIGNS
CH:0+000 to 1+000
DRAWING NO.
STC/BR/BSRDC/BNB/RS/01
A3



An
Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd., Muzaffarnagar

K. S. Sharma
16.12.2018
Dy. General Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarnagar

REV.	DATE	DESCRIPTION OF REVISIONS
R1	JULY 2018	MODIFIED DPR
R4	JULY 2019	DETAILED PROJECT REPORT
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CLIENT:
BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
(A GOVERNMENT OF BIHAR UNDERTAKING)

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Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)

DPR CONSULTANTS:
Shweta Technophile Consultants Pvt. Ltd.
222-223, 313, Rajhans Plaza,
Ahinsa Khand-1, Indrapuram,
Ghaziabad-201014

DRAWN BY: ARJUN SINGH
DESIGN BY: JITENDER KUMAR
CHECKED BY: VIKRANT KUMAR

TITLE:
ROAD SIGNS
CH 1+000 to 2+000
DRAWING NO.
STC/BR/BSRDC/BNB/RS/02
A3

SCALE :- 1:1000




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K. Kamesh
16-12-21
Dy. General Manager (Tech.)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur



R5	JULY 2019	MODIFIED DPR
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CLIENT:

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 (A GOVERNMENT OF BIHAR UNDERTAKING)

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DPR CONSULTANTS:
Shweta Technophile Consultants Pvt. Ltd.
 222-223, 313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014

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DESIGN BY	JITENDER KUMAR
CHECKED BY	VIKRANT KUMAR
SCALE :-	1:1000

TITLE:	
ROAD SIGNS CH 2+000 to 3+000	
DRAWING NO.	A3
STC/BR/BSRDC/BNB/RS/03	




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K. Kumar
16-12-21
Manager (Tech.) Dy. General Manager (Tech)
Project Implementation Unit
Bihar State Road Devp. Corp. Ltd. Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R5	JULY 2021	MODIFIED DPR
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BIHAR STATE ROAD DEVELOPMENT CORPORATION LTD. PATNA
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 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014

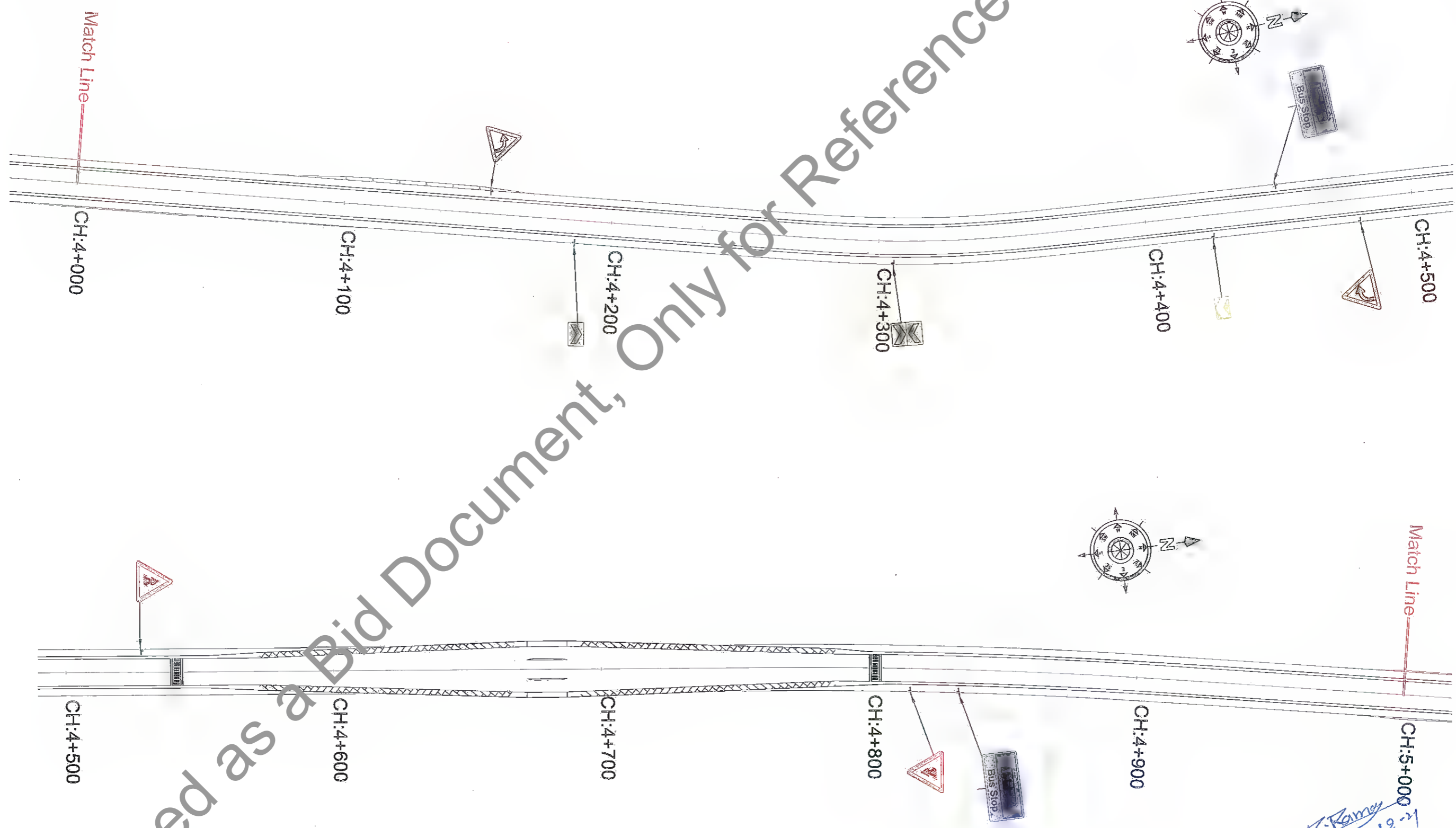
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DESIGN BY	JITENDER KUMAR
CHECKED BY	VIKRANT KUMAR.
SCALE :-	1:1000

TITLE:
 ROAD SIGNS
 CH 3+000 to 4+000

DRAWING NO.
 STC/BR/BSRDC/BNB/RS/04

BETTIAH ←


→ NARKATIYAGANJ



A
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur

K. Kumar
 16-12-21
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

REV.	DATE	DESCRIPTION OF REVISIONS
R1	JULY 2018	MODIFIED DPR
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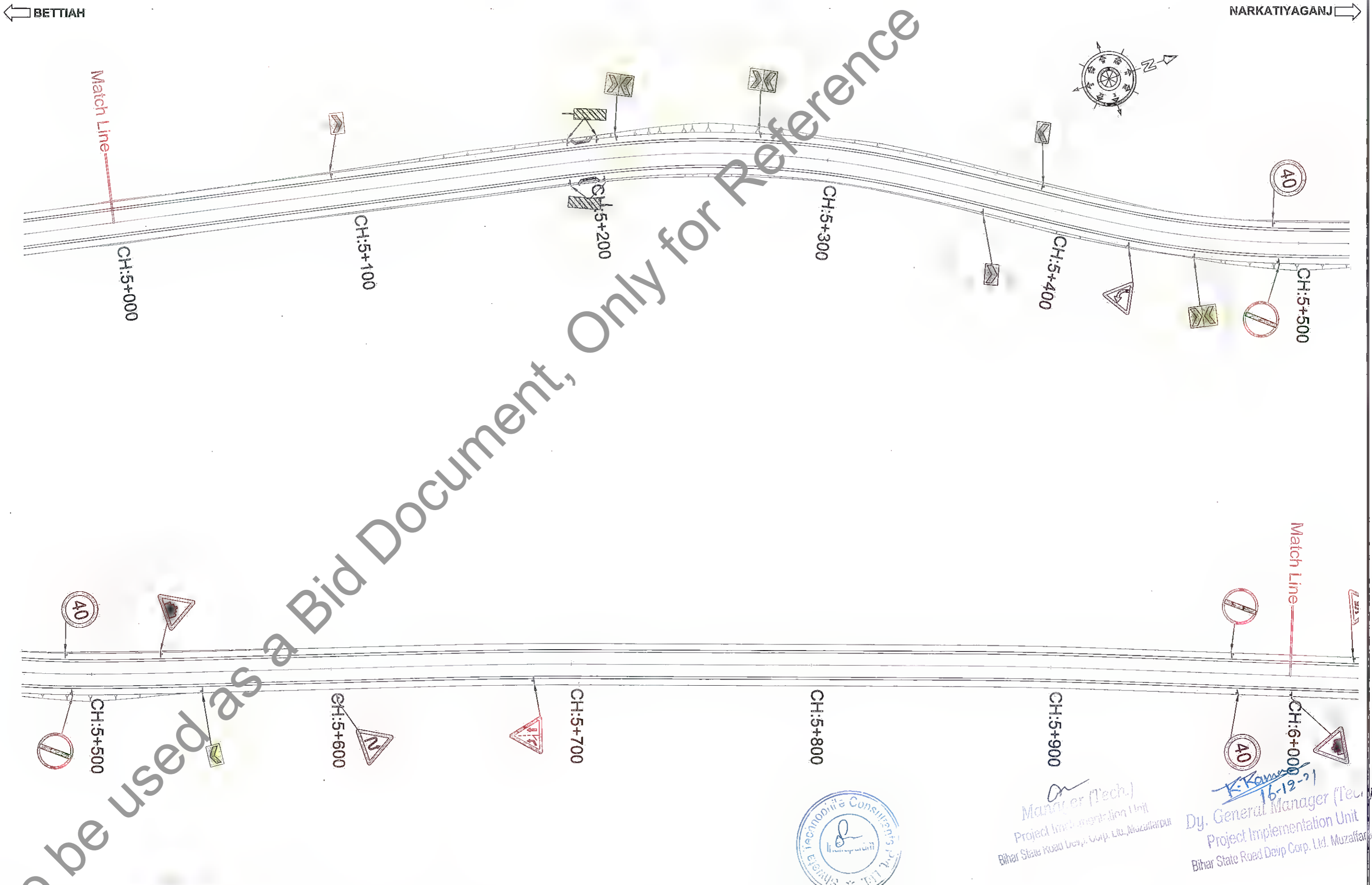
DPR CONSULTANTS:
S7C Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014

DRAWN BY	ARIJUN SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	VIKRANT KUMAR
SCALE :-	1:1000


TITLE:
 ROAD SIGNS
 CH 4+000 to 5+000

DRAWING NO:
 STC/BR/BSRDC/BNB/RS/05

A3



R5	JULY	MODIFIED DPR
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R2	OCTOBER 2018	FINAL DPR
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CLIENT:

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 (A GOVERNMENT OF BIHAR UNDERTAKING)

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DPR CONSULTANTS:
S7C Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014.

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DESIGN BY JITENDER KUMAR
CHECKED BY VIKRANT KUMAR
SCALE :- 1:1000

TITLE:
 ROAD SIGNS
 CH 5+000 to 6+000
DRAWING NO.
 STC/BR/BSRDC/BN/RS/05
 A3

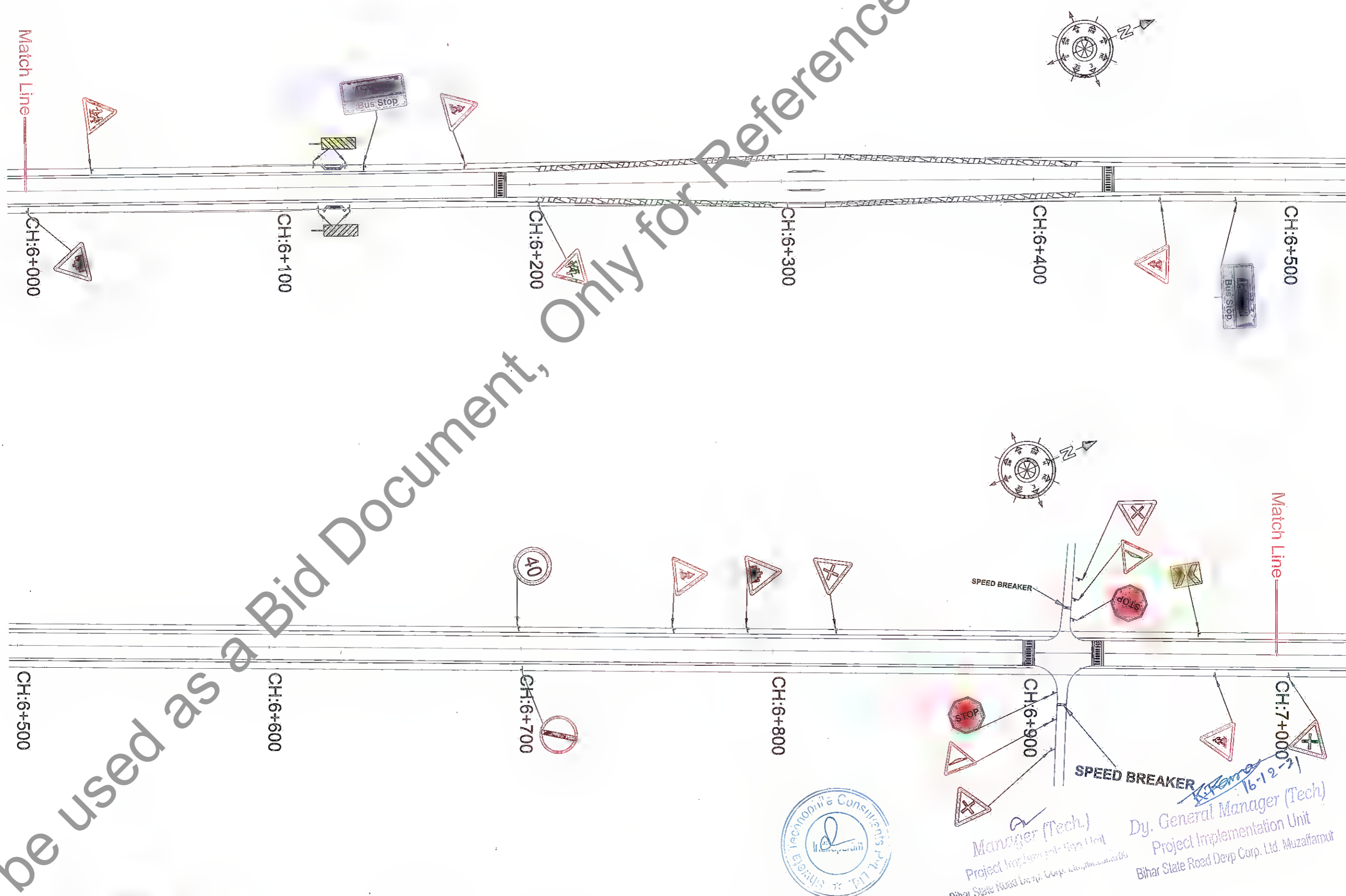


an
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd., Muzaffarpur
K. Kumar
 16-12-21
 Dy. General Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur

BETTIAH ←


→ NARKATIYAGANJ

61



K. Ramani
 16-12-21
 Manager (Tech.)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarnur
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp Corp. Ltd. Muzaffarnur

REV.	DATE	DESCRIPTION OF REVISIONS
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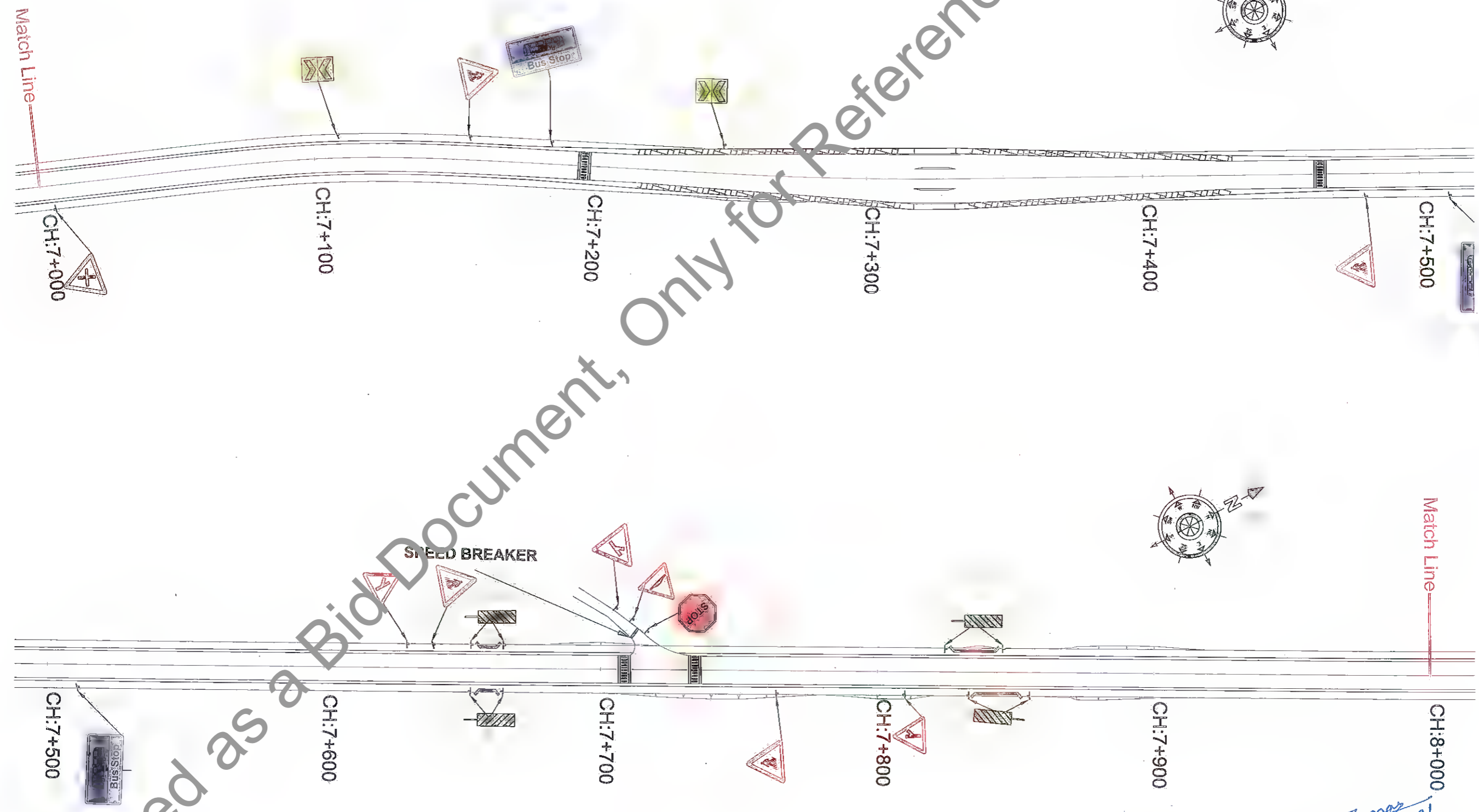
CLIENT:

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 (A GOVERNMENT OF BIHAR UNDERTAKING)

PROJECT:
Consultancy Services for Preparation of Detailed Project Report (DPR) for Improvement /Upgradation of SH-105 (Bettiah - Narkatiyaganj Road) in the state of Bihar. (Km 0+000 TO Km 35+700)


DPR CONSULTANTS:
570 Shweta Technophile Consultants Pvt. Ltd.
 222-223,313, Rajhans Plaza,
 Ahinsa Khand-I, Indrapuram,
 Ghaziabad-201014

DRAWN BY	ARJUN SINGH
DESIGN BY	JITENDER KUMAR
CHECKED BY	VIKRANT KUMAR
SCALE :-	1:1000

TITLE:
 ROAD SIGNS
 CH 6+000 to 7+000
DRAWING NO.
 STC/BR/BSRDC/BNB/RS/07
 A3




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 16-12-21
 Dy. General Manager (Tech)
 Project Implementation Unit
 Bihar State Road Devp. Corp. Ltd. Muzaffarpur



REV.	DATE	DESCRIPTION OF REVISIONS
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DESIGN BY	JITENDER KUMAR
CHECKED BY	VIKRANT KUMAR
SCALE :-	1:1000

TITLE:	
ROAD SIGNS CH 7+000 to 8+000	
DRAWING NO.	A3
STC/BR/BSRDC/BNR/RS/08	