

Government of Jammu & Kashmir



JHELUM & TAWI FLOOD RECOVERY PROJECT

Kashmir Province

**Consultancy Services for Preparing Detailed Project Report for the Road
works in Jammu and Kashmir**

(Bijbehera to Karihama National Highway via Kitriteng in Anantnag District)

(DRAWINGS)

(Detailed Project Report)

September 2019



ROAD DRAWINGS

≡ LIST OF DRAWINGS ≡

LIST OF DRAWINGS FOR ROAD

Sl. No.	Descriptions	Drawing No.	No.of Sheet
(A)	ROAD WORKS		
1.	List of Drawings	EPTISA/JTFRP/DPR/J&K/LOD-01	01
2.	Legend, Abbreviations & General Notes	EPTISA/JTFRP/DPR/J&K/LEGEND-01	01
3.	Index Map	EPTISA/JTFRP/DPR/J&K/IM-01	01
4.	Typical Cross Section	EPTISA/JTFRP/DPR/J&K/TCS-01	01
5.	Strip Plan	EPTISA/JTFRP/DPR/J&K/SP-01 to 02	02
6.	Plan and Profile- Main Road	EPTISA/JTFRP/DPR/J&K/PP-01 to 08	08
7.	Plan and Profile (For Link Road No.1)	EPTISA/JTFRP/DPR/J&K/PP/Link Road-01	01
8.	Horizontal Alignment Report	EPTISA/JTFRP/DPR/J&K/HAR-01 to 02	02
9.	Horizontal Alignment Report (For Link Road No.1)	EPTISA/JTFRP/DPR/J&K/HAR/Link Road-01	01
10.	Vertical Alignment Report	EPTISA/JTFRP/DPR/J&K/VAR-01 to 03	03
11.	Vertical Alignment Report (For Link Road No.1)	EPTISA/JTFRP/DPR/J&K/VAR/Link Road-01	01
12.	Signage Plan- Main Road	EPTISA/JTFRP/DPR/J&K/SP-01 to 08	08
13.	Signage Plan- Link Road	EPTISA/JTFRP/DPR/J&K/SP-01	01
14.	Detailed Cross Section	EPTISA/JTFRP/DPR/J&K/DCS-01 to 24	24
15.	Detailed Cross Section (For Link Road No.1)	EPTISA/JTFRP/DPR/J&K/DCS/Link Road-01 to 04	04
16.	Utility Relocation Plan-Main Road (For Electricity Department)	EPTISA/JTFRP/DPR/J&K/URP-01 to 08	08
17.	Utility Relocation Plan- Main Road (For Telephone Department)	EPTISA/JTFRP/DPR/J&K/URP-01 to 08	08
18.	Utility Relocation Plan- Main Road (For Water Department)	EPTISA/JTFRP/DPR/J&K/URP-01 to 08	08
19.	Utility Relocation Plan- Link Road (For Electricity Department)	EPTISA/JTFRP/DPR/J&K/URP-01	01
20.	Utility Relocation Plan- Link Road (For Telephone Department)	EPTISA/JTFRP/DPR/J&K/URP-01	01
21.	Utility Relocation Plan- Link Road (For Water Department)	EPTISA/JTFRP/DPR/J&K/URP-01	01
22.	Tree Cutting- Main Road	EPTISA/JTFRP/DPR/J&K/TC-01 to 08	08
23.	Tree Cutting- Link Road	EPTISA/JTFRP/DPR/J&K/TC-01	01
24.	<i>Miscellaneous Drawings</i>		01
i)	Road Signs & Road Delineators - (3 Sheets)	EPTISA/JTFRP/DPR/J&K/MISC-01	01
ii)	Typical Details of Distance Stone, Boundary Stone & Guard Post	EPTISA/JTFRP/DPR/J&K/MISC-02	01
iii)	Typical Details of Metal Beam Crash Barrier	EPTISA/JTFRP/DPR/J&K/MISC-03	01
25.	<i>GIS Mapping</i>		03
26.	<i>Culvert Drawings</i>		
i)	Typical General Arrangement Drawing for Single Cell Box Culvert	EPTISA/JTFRP/DPR/J&K/BOX/GAD/01	01
ii)	Typical General Arrangement Drawing for Single Cell Pipe Culvert	EPTISA/JTFRP/DPR/J&K/BOX/GAD/01	01

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
***(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)***

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

TITLE :

LIST OF DRAWING

DRG. NO. : EPTISA/JTFRP/DPR/J&K/LOD/01

REVISION : R-1

September 2019

A. PLAN

a) Existing

GENERAL NOTES

1. All angles are in degree (°) – minute (') – second (") format.
2. All chainages are in kilometres and all levels are in meters unless otherwise specified.
3. All the co-ordinates (X, Y) are with respect to GPS values (established for project road at 2 km interval).
4. Details shown in the plans are based on topographical survey carried out under the assignment.
5. The scale mentioned for all drawings is applicable for A2 sheet.

1. The pavements have been considered to be rotated about the Carriageway Center line to attain requisite amount of superelevation.

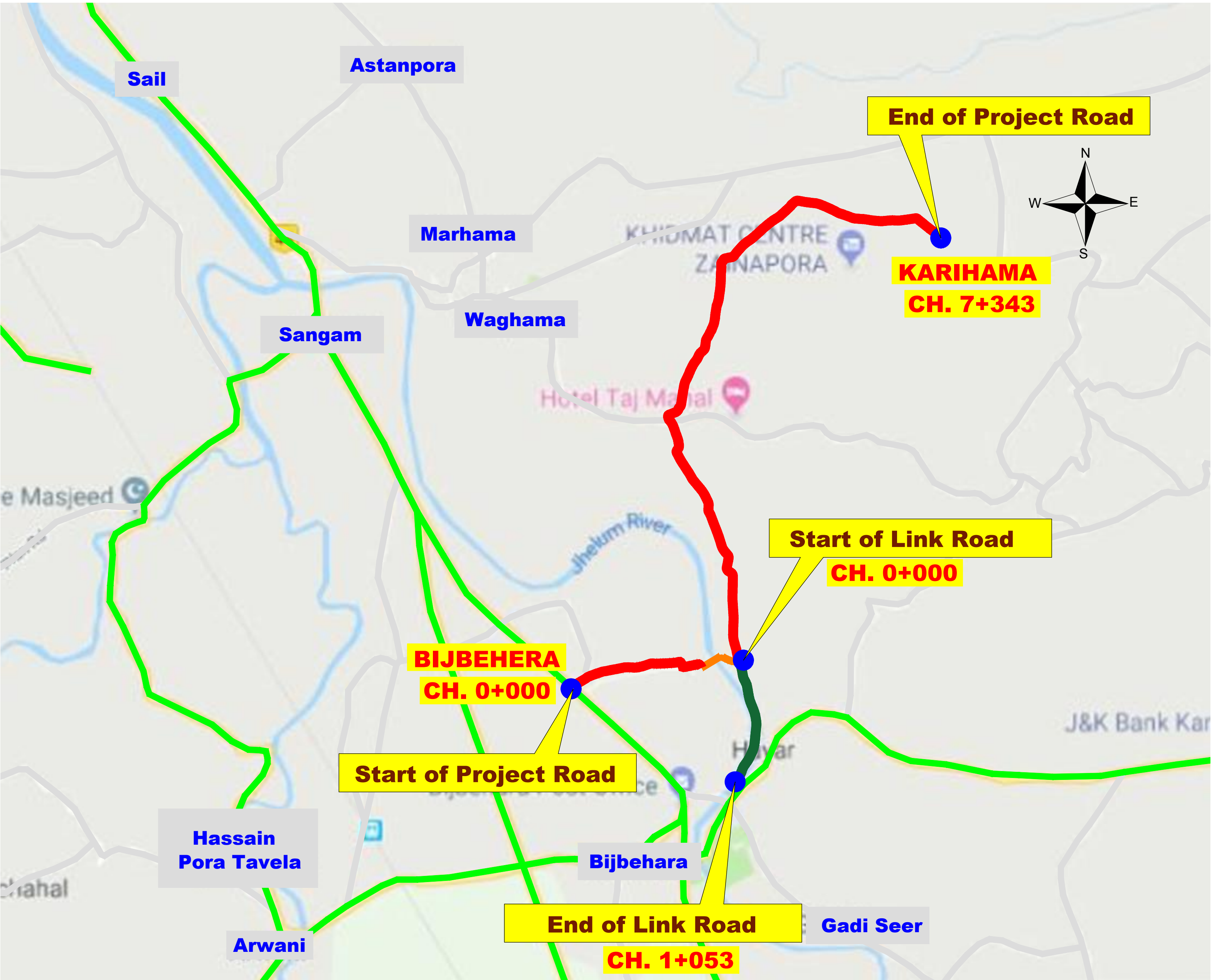
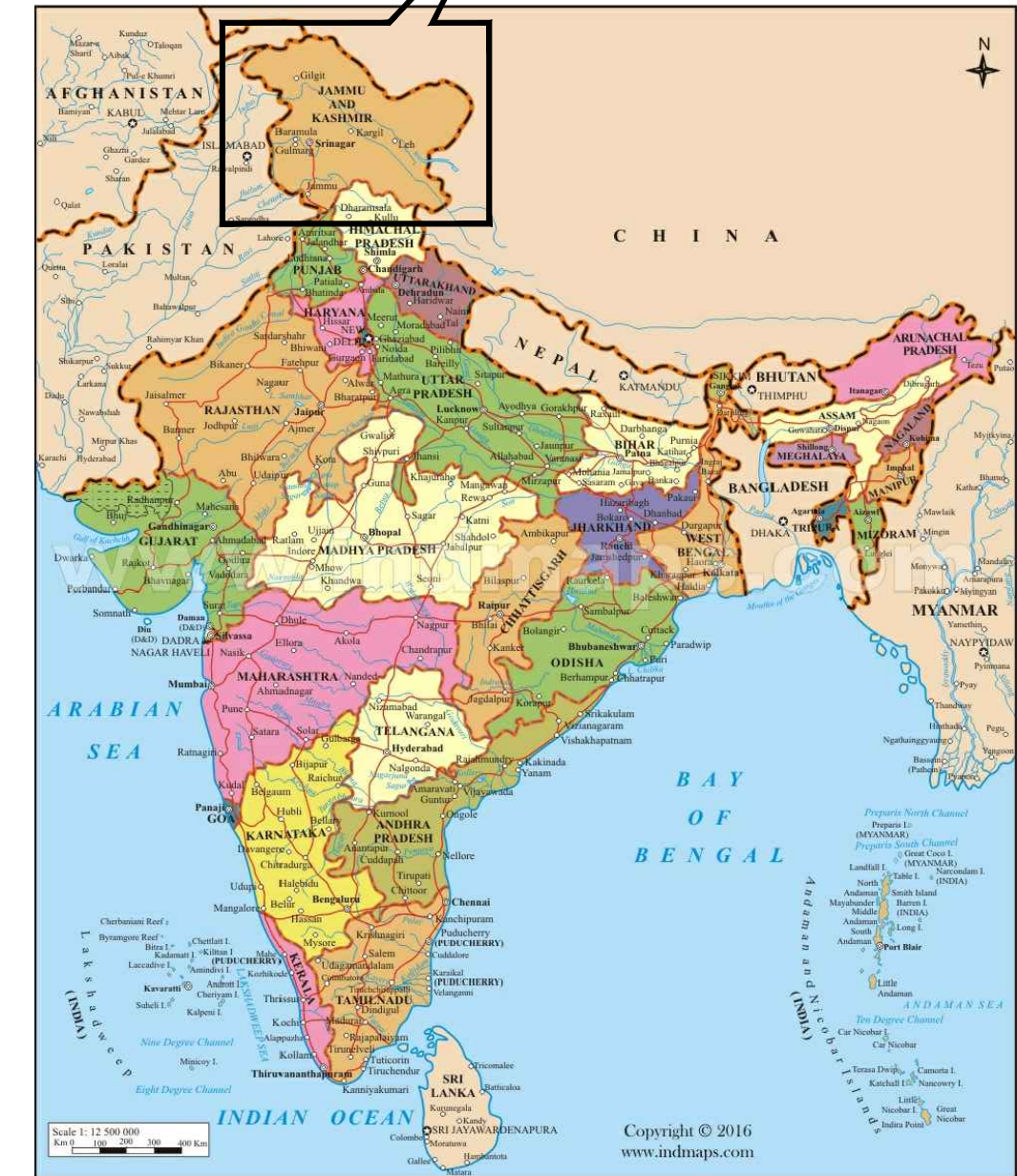
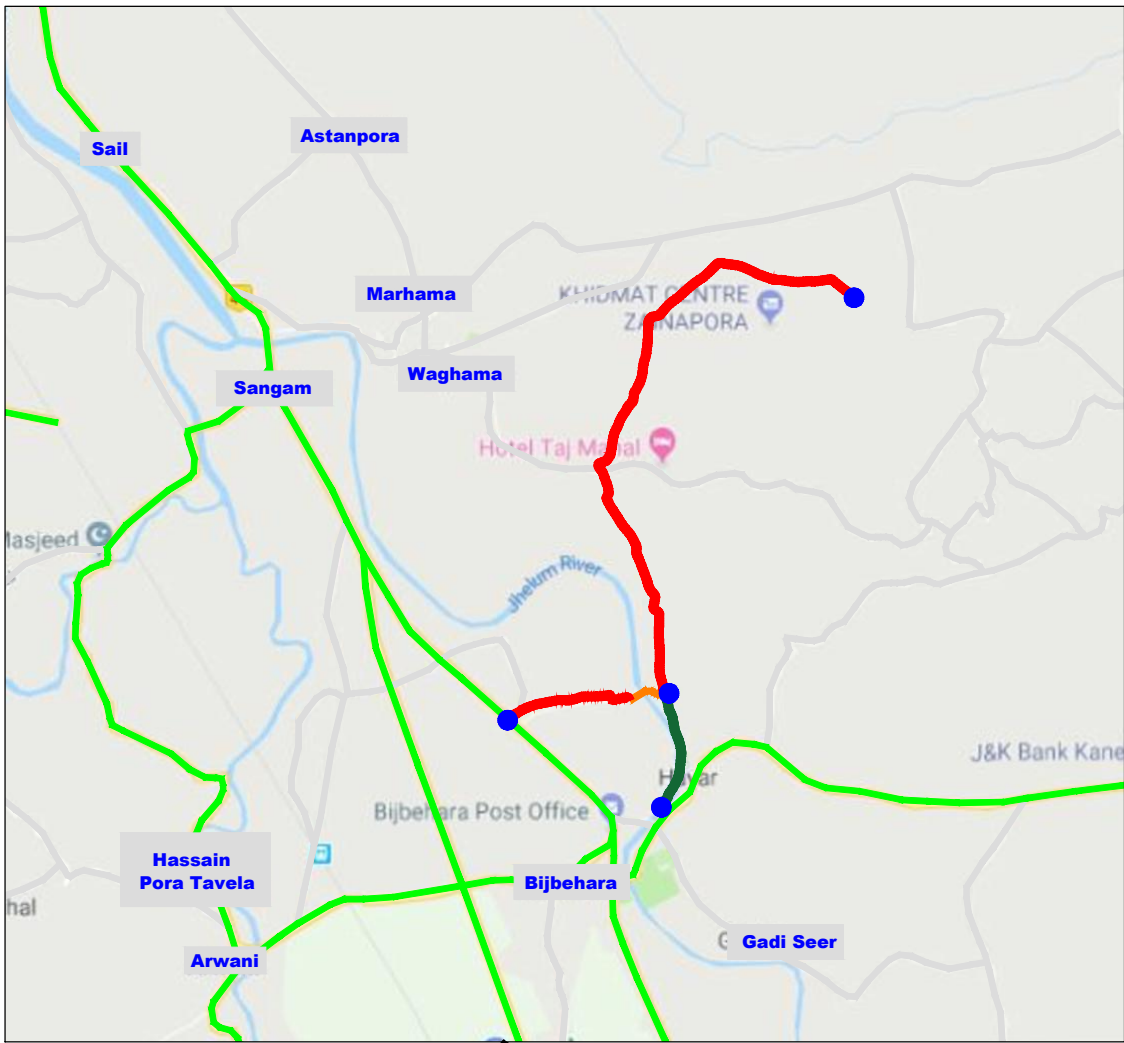
A. PLAN

B. PROFILE

Finished Grade Line _____

Existing Grade Line _____

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						DESIGNED BY : SCK/MM		LEGEND, ABBREVIATIONS & GENERAL NOTES	
						APPROVED BY : KG		DRG. NO. : EPTISA/JTFRP/DPR/J&K/LEGEND/01	
						SCALE : N.T.S		REVISION : R-1	
			REV. DATE DESCRIPTION					September 2019	



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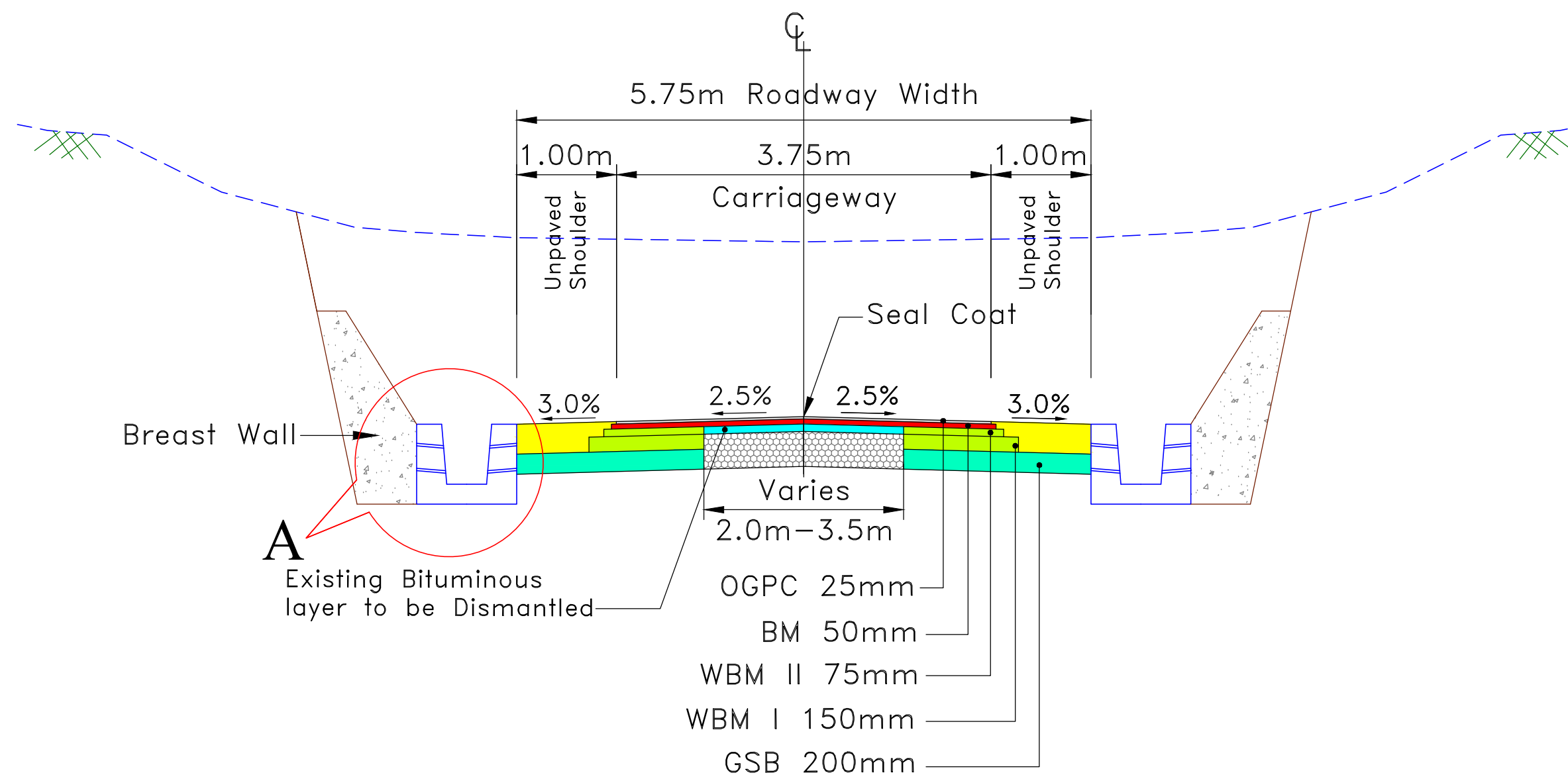
DESIGN CONSULTANT:
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REV.	DATE	DESCRIPTION

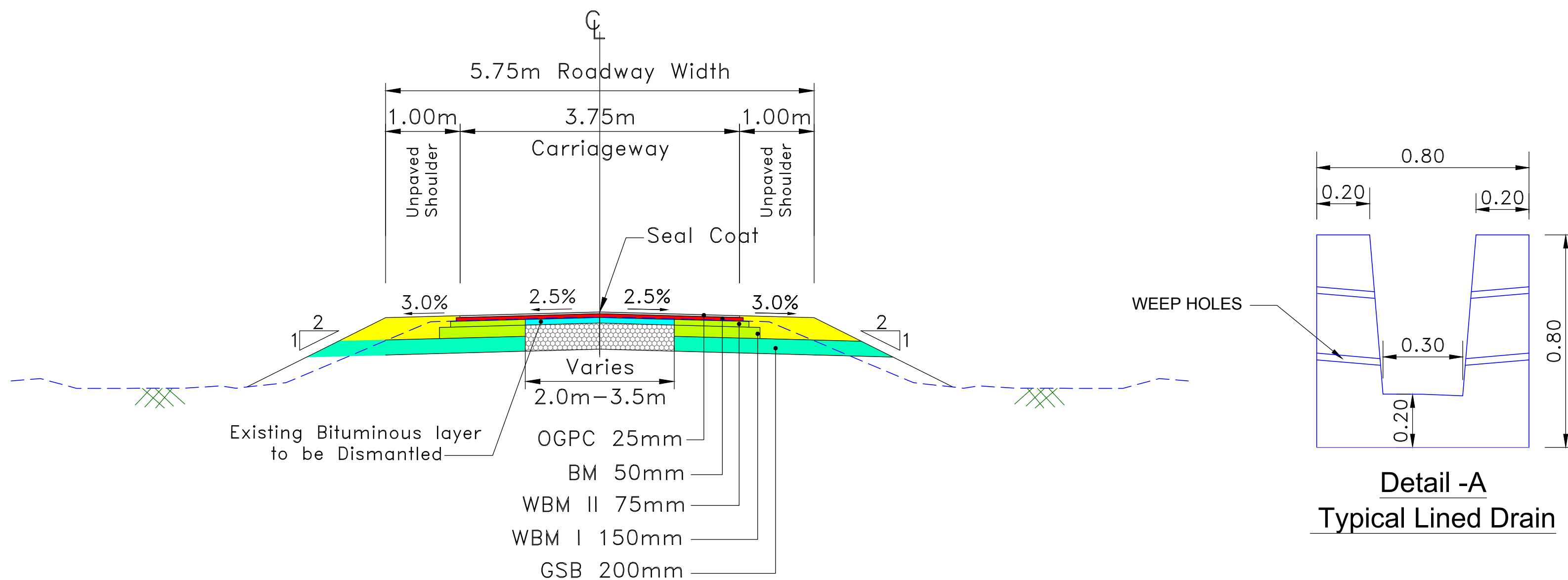
DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	N.T.S

TITLE :	Index Map
DRG. NO. :	EPTISA/JTRP/DPR/J&K/IM/01
REVISION : R-1	September 2019

≡ TYPICAL CROSS SECTIONS ≡



TYPE - 1 : TYPICAL CROSS SECTION OF SINGLE LANE CARRIAGEWAY AT CONCENTRIC WIDENING WITH BOTH SIDE DRAIN



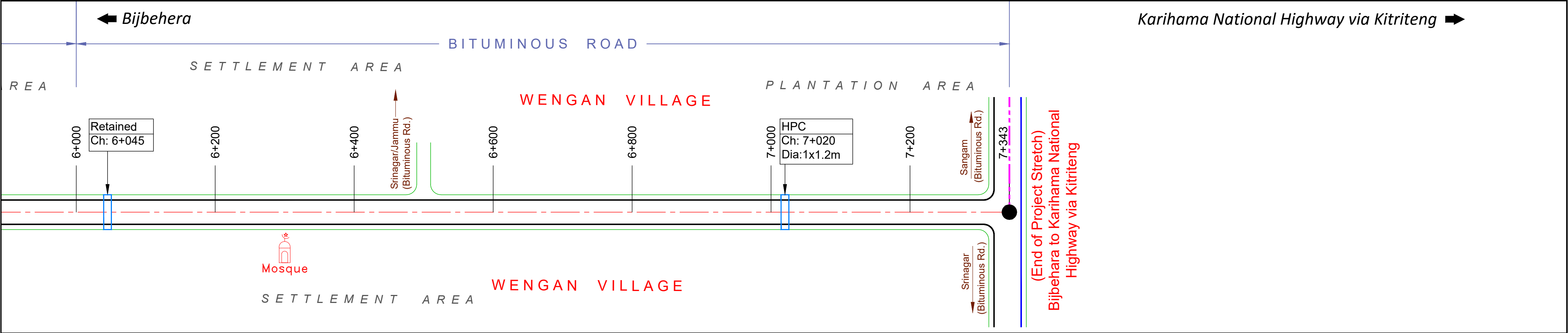
**Detail -A
Typical Lined Drain**

Note:

- Existing pavement to be dismantled upto the level to provide complete pavement layer (including 100mm thick subgrade of CBR not<10%) and re-compacted.

TYPE - 2 : TYPICAL CROSS SECTION OF SINGLE LANE CARRIAGEWAY AT CONCENTRIC WIDENING

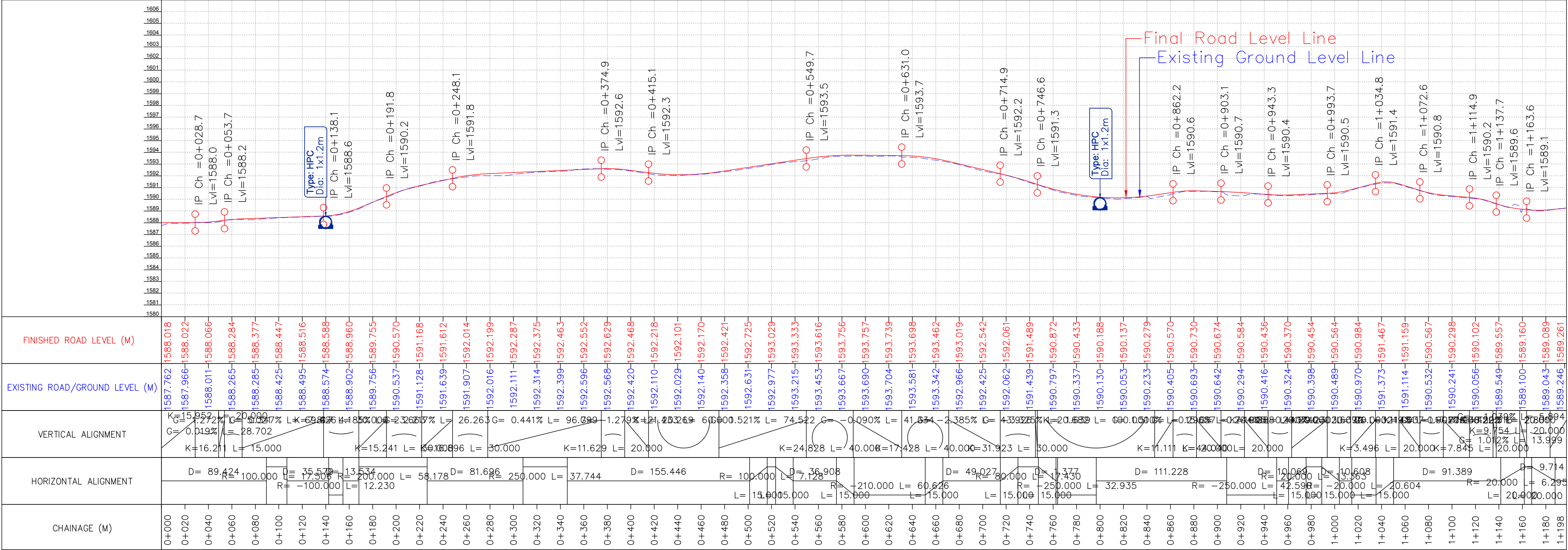
CLIENT : <div><p>Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p></div>	PROJECT : Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir <u>(Bijbehera to Karihama National Highway via Kitriteng in Anantnag District)</u>	DESIGN CONSULTANT: <div><p>Eptisa Servicios de Ingenieria S.L. Unit 1203, 12th Floor, Tower 1, PS Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector v, Salt Lake Kolkata - 700091, West Bengal Ph: 033-40347200 www.eptisa.com</p></div>				DRAWN BY : SD	TITLE : TYPICAL CROSS SECTION			
						DESIGNED BY : SCK/MM				
								APPROVED BY : KG	DRG. NO. : EPTISA/JTFRP/DPR/J&K/TCS/01	
								SCALE : 1:100	REVISION : R-1	September 2019
			REV.	DATE	DESCRIPTION					



LEGEND:	
	Existing Center Line
	Existing Carriageway Edge
	Existing Shoulder Edge

<div>CLIENT :</div> <div></div> <div>Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</div>	<div>PROJECT :</div> <div>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir <i>(Bijbehera to Karihama National Highway via Kitriteng in Anantnag District)</i></div>	<div>DESIGN CONSULTANT:</div> <div>Eptisa Servicios de Ingenieria S.L. Unit 1203, 12th Floor, Tower 1, PS Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector v, Salt Lake Kolkata - 700091, West Bengal Ph: 033-40347200 www.eptisa.com</div>	<table><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td>REV.</td><td>DATE</td><td>DESCRIPTION</td></tr></table>													REV.	DATE	DESCRIPTION	<div>DRAWN BY : SD</div> <div>DESIGNED BY : SCK/MM</div> <div>APPROVED BY : KG</div> <div>LONG SCALE:  TRANS SCALE: </div>	<div>TITLE : Strip Plan (Bijbehara to Karihama National Highway via Kitriteng)</div> <div>DRG. NO. : EPTISA/JTFRP/DPR/J&K/SP/02</div> <div>REVISION : R-1</div> <div>September 2019</div>
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Start of Project Road



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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	HOR 1:2500 VER 1:250

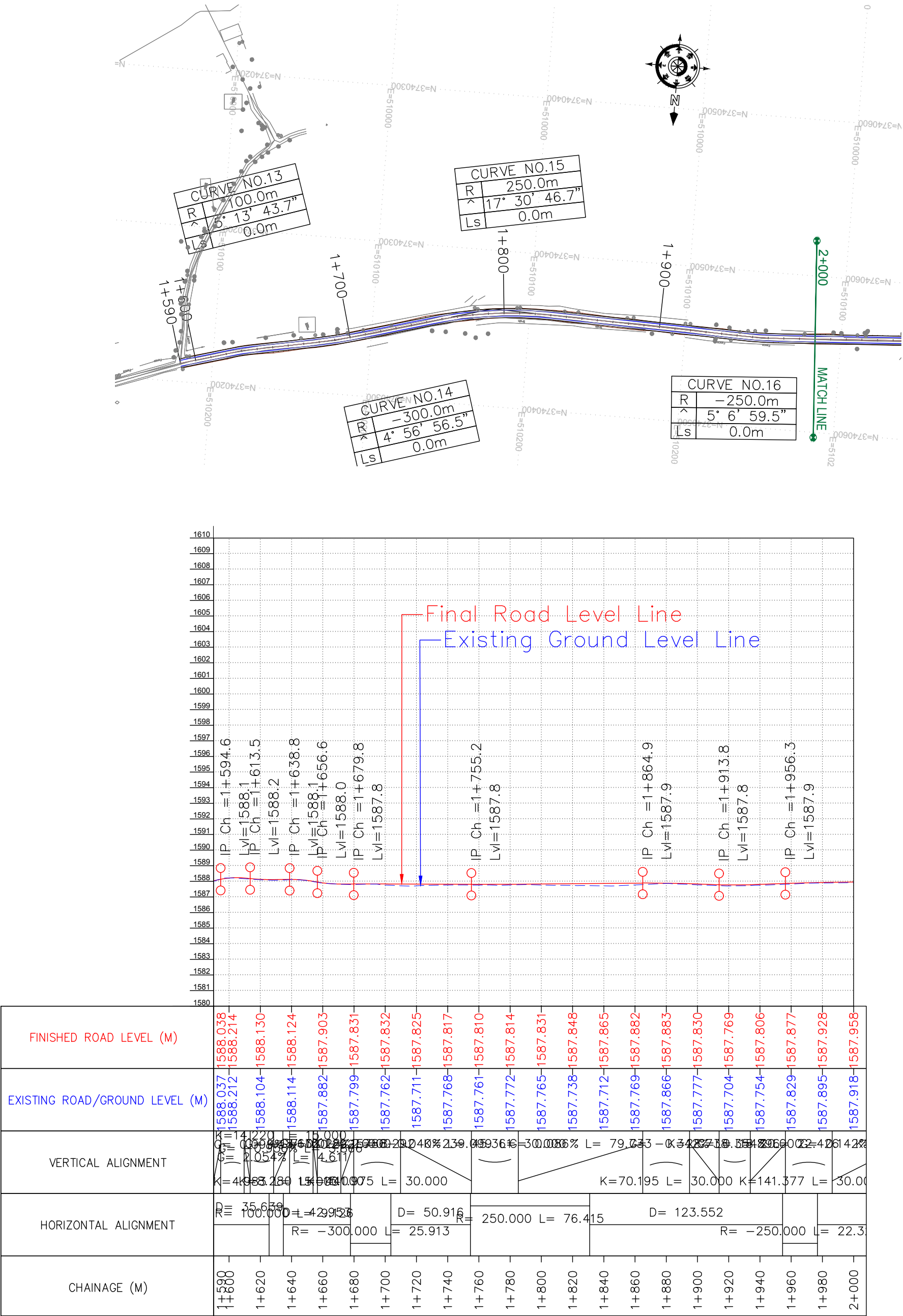
TITLE :

Plan & Profile (Main Line)
(km 0+000 to km 1+198)

DRG. NO. : EPTISA/JTRP/DPR/J&K/PP/01

REVISION : R-1

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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : HOR 1:2500
VER 1:250

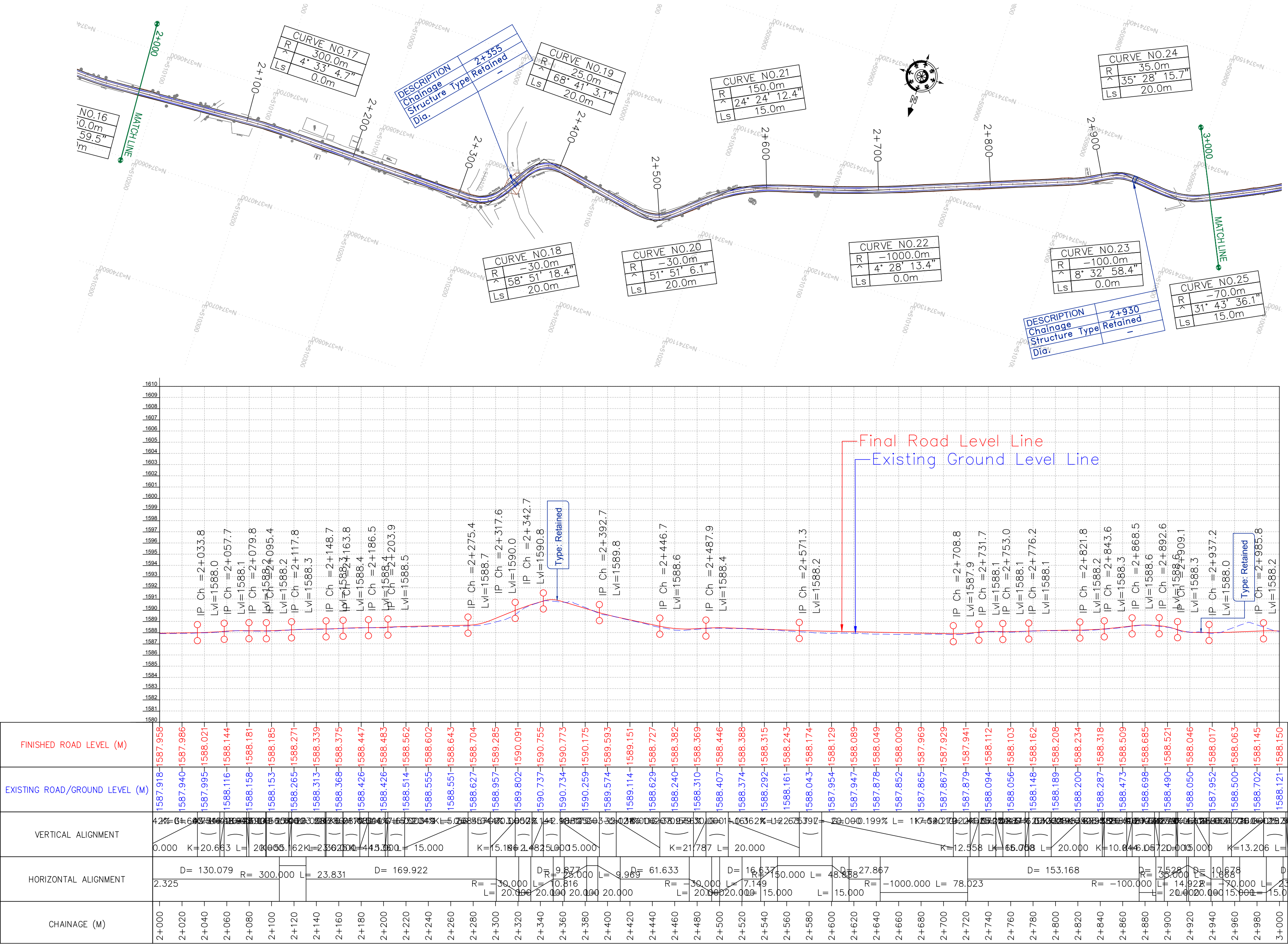
TITLE :

Plan & Profile (Main Line)
(km 1+590 to km 2+000)

DRG. NO. : EPTISA/JTRP/DPR/J&K/PP/02

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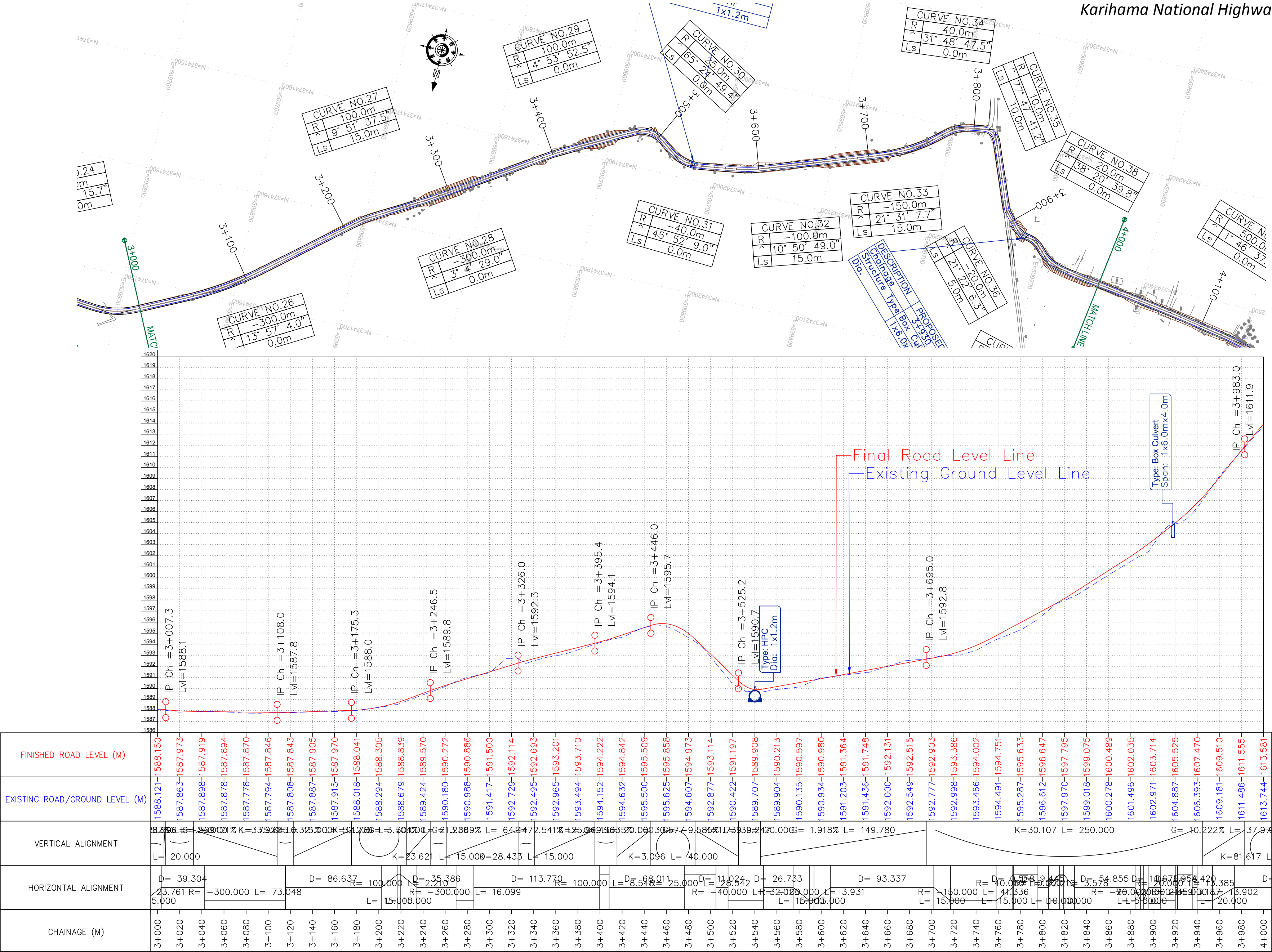


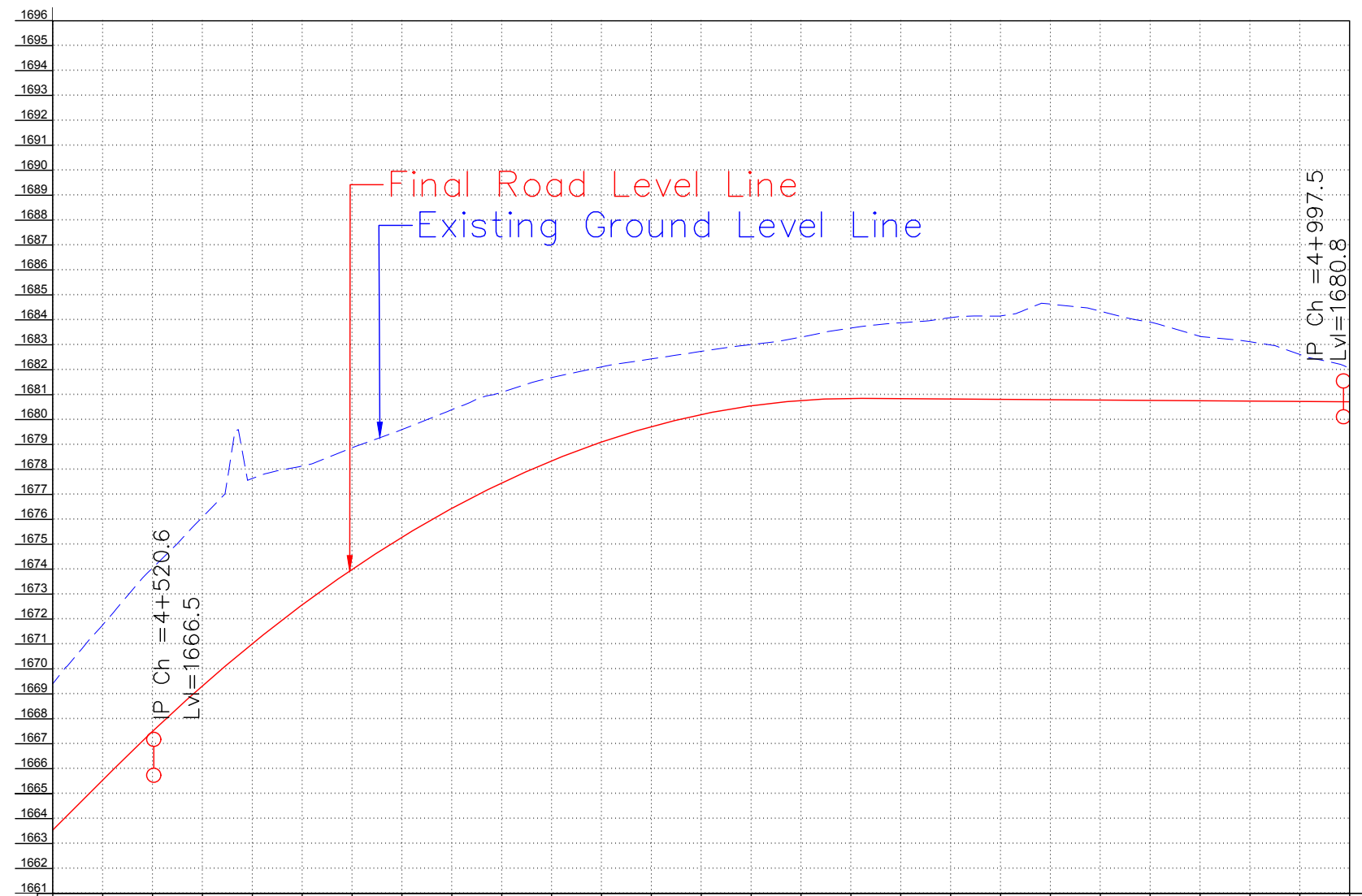
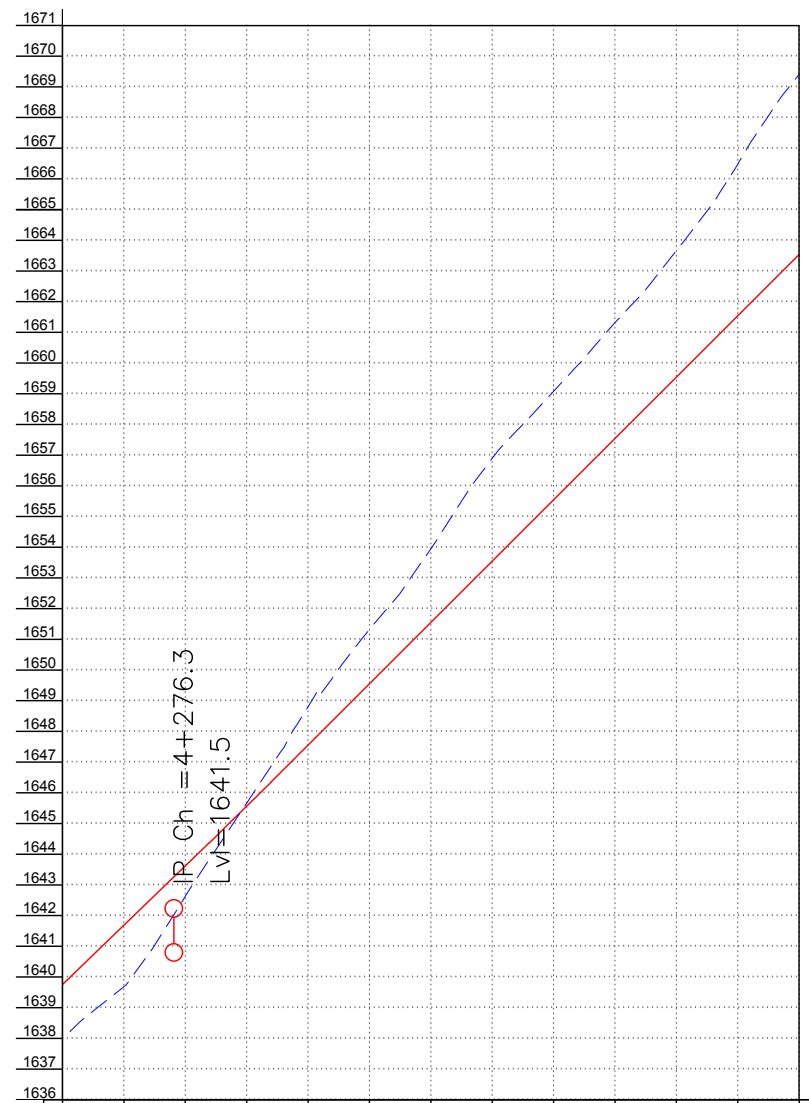
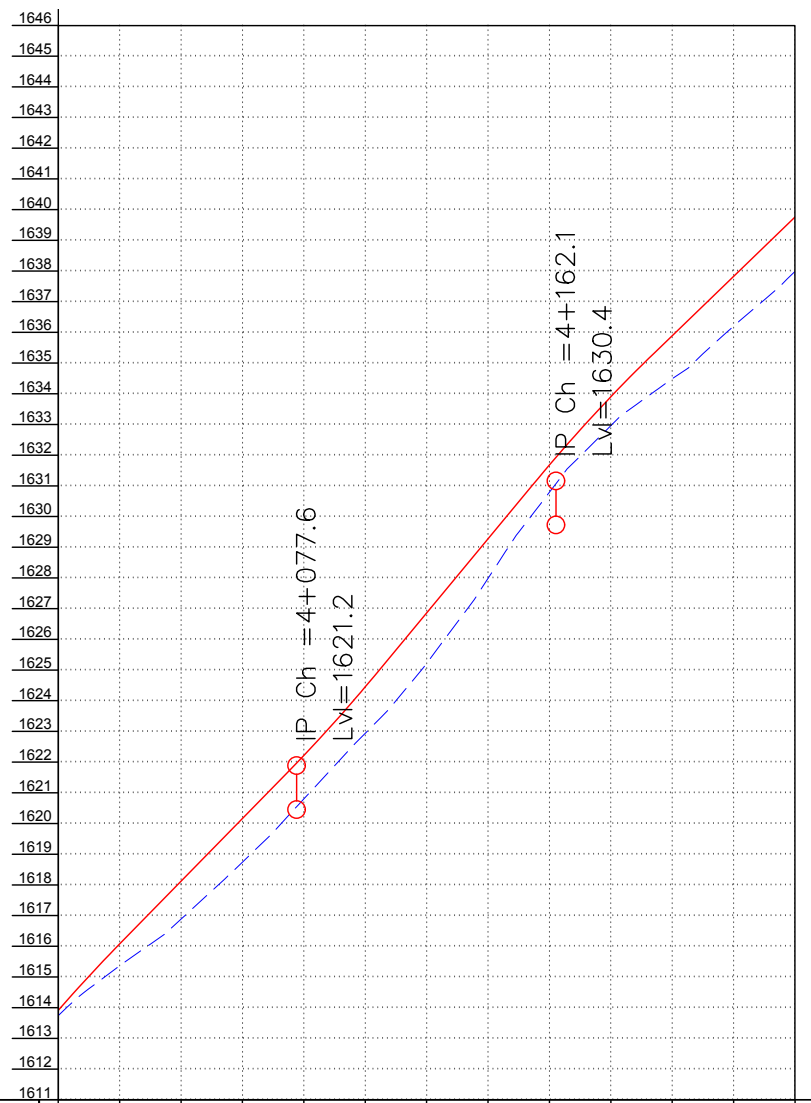
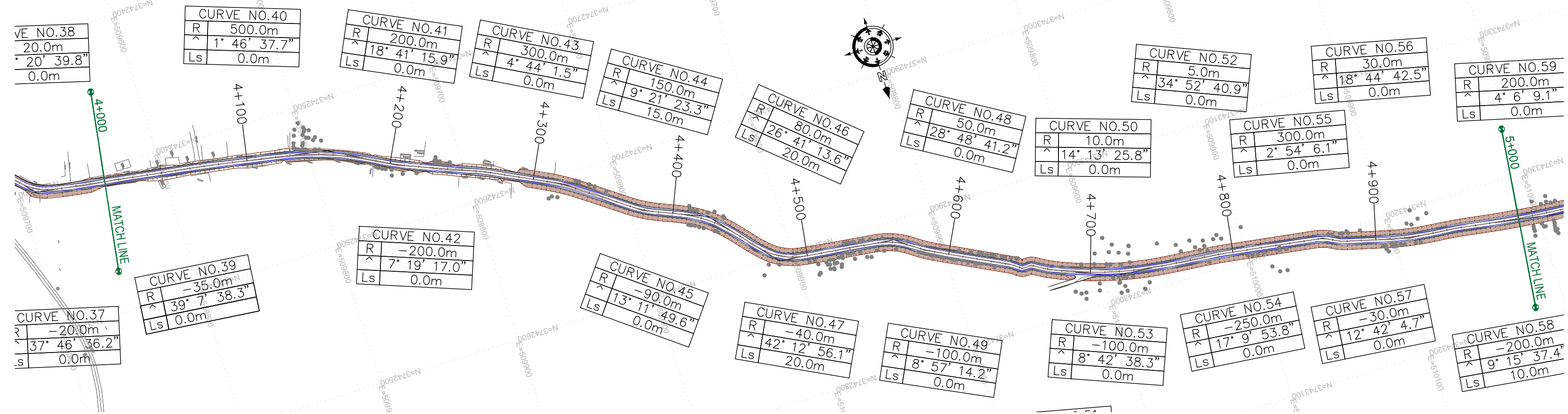
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DRAWN BY :	SD
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SCALE :	HOR 1:2500 VER 1:250

TITLE :	Plan & Profile (Main Line) (km 2+000 to km 3+000)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/PP/03
REVISION : R-1	September 2019





FINISHED ROAD LEVEL (M)	1613.581	1615.559	1617.506	1619.452	1621.400	1623.471	1625.705	1627.953	1630.202	1632.376	1634.364	1636.239	1638.113
EXISTING ROAD/GROUND LEVEL (M)	1613.744	1615.368	1616.886	1618.744	1620.802	1622.942	1625.222	1627.984	1630.794	1632.960	1634.493	1636.204	1637.987
VERTICAL ALIGNMENT	9.732% K=158.370 L=40.000 15.200% K=21.369 L=40.000 9.371% K=224.272 L=20.000												
HORIZONTAL ALIGNMENT	D=93.650 R=500.000 D=10.38 R=200.000 L=15.898 D=13.981 R=350.000 L=25.5 D=7.3448 R=140.000 L=20.000												
CHAINAGE (M)	4+000	4+020	4+040	4+060	4+080	4+100	4+120	4+140	4+160	4+180	4+200	4+220	4+240

FINISHED ROAD LEVEL (M)	1637.987	1639.987	1642.627	1644.864	1645.664	1645.856	1648.800	1649.905	1651.322	1651.954	1653.950	1655.053	1656.897	1658.201	1659.083	1661.315	1663.666	1666.484	1669.406	1672.300
EXISTING ROAD/GROUND LEVEL (M)	1637.987	1639.681	1642.627	1644.864	1645.664	1645.856	1648.800	1649.905	1651.322	1651.954	1653.950	1655.053	1656.897	1658.201	1659.083	1661.315	1663.666	1666.484	1669.406	1672.300
VERTICAL ALIGNMENT	10.247% K=224.272 L=20.000																			
HORIZONTAL ALIGNMENT	D=22.882 R=150.000 L=15.000 D=23.094 R=140.000 L=20.000 D=23.448 R=140.000 L=20.000																			
CHAINAGE (M)	4+240	4+260	4+280	4+300	4+320	4+340	4+360	4+380	4+400	4+420	4+440	4+460	4+480							

1669.406	1671.758	1674.047	1676.090	1677.644	1678.138	1678.870	1679.600	1680.399	1681.096	1681.689	1682.117	1682.438	1682.739	1683.012	1683.310	1683.672	1684.090	1684.558	1685.069	1685.614	1686.191	1686.800	1687.432	1688.088	1688.767	
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CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
***(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)***

DESIGN CONSULTANT:

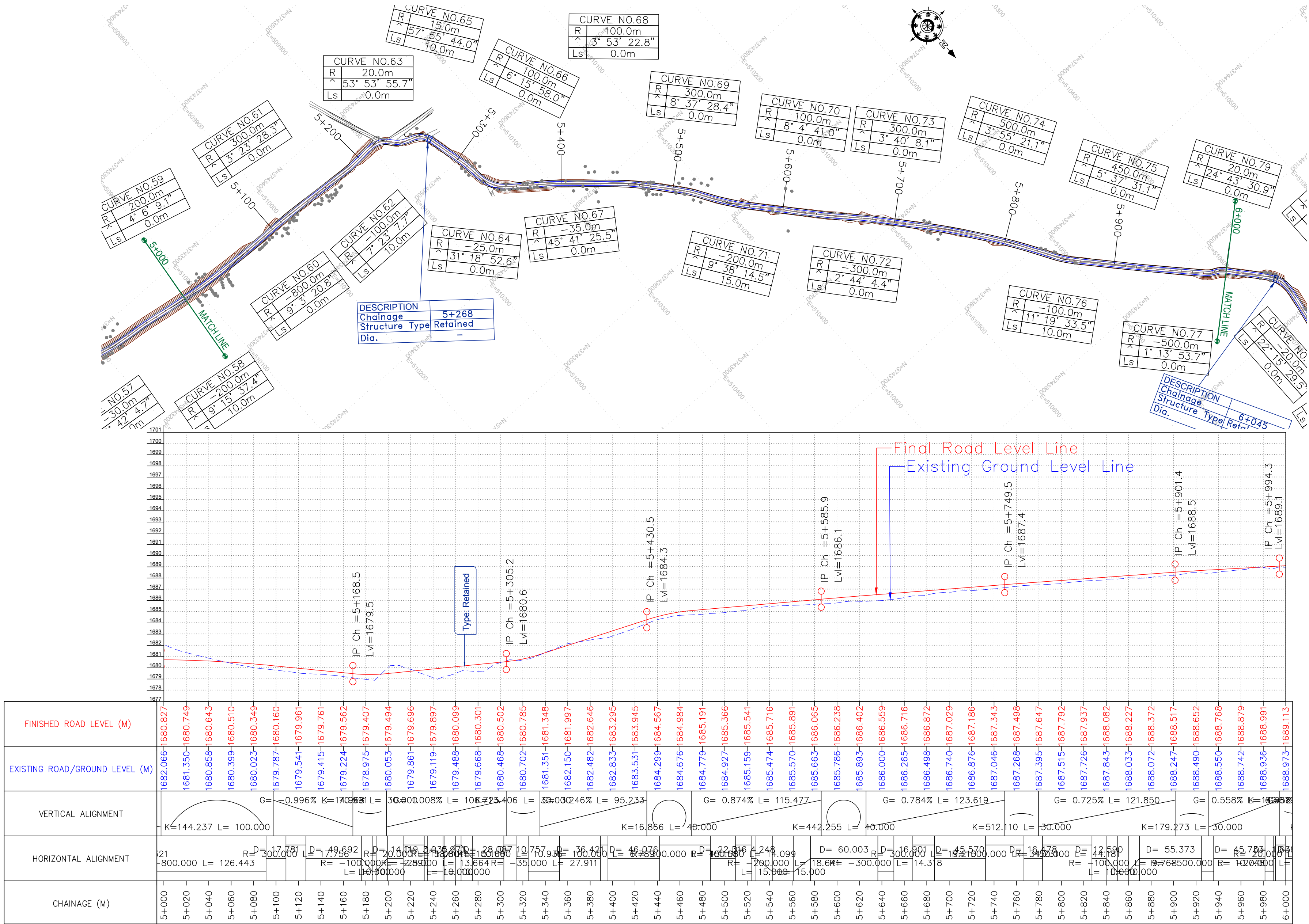


Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	HOR 1:2500 VER 1:250

TITLE :	Plan & Profile (Main Line) (km 4+000 to km 5+000)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/PP/05
REVISION : R-1	September 2019



CLIENT :



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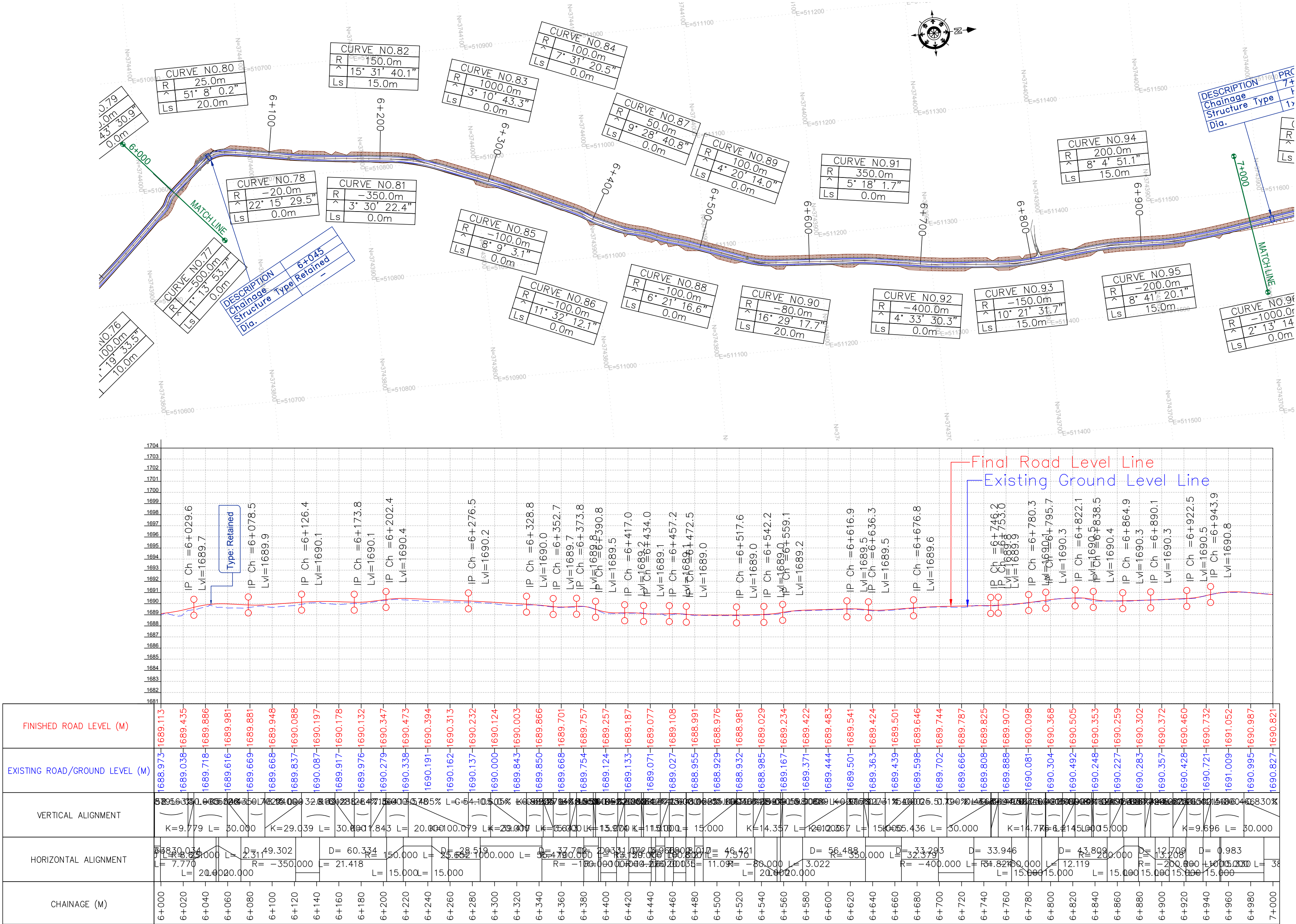
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Plan & Profile (Main Line)
(km 5+000 to km 6+000)

DRG. NO. : EPTISA/JTRP/DPR/J&K/PP/06

REVISION : R-1

September 2019



CLIENT :



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Srinagar-190 009.

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REV.	DATE	DESCRIPTION

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DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	HOR 1:2500 VER 1:250

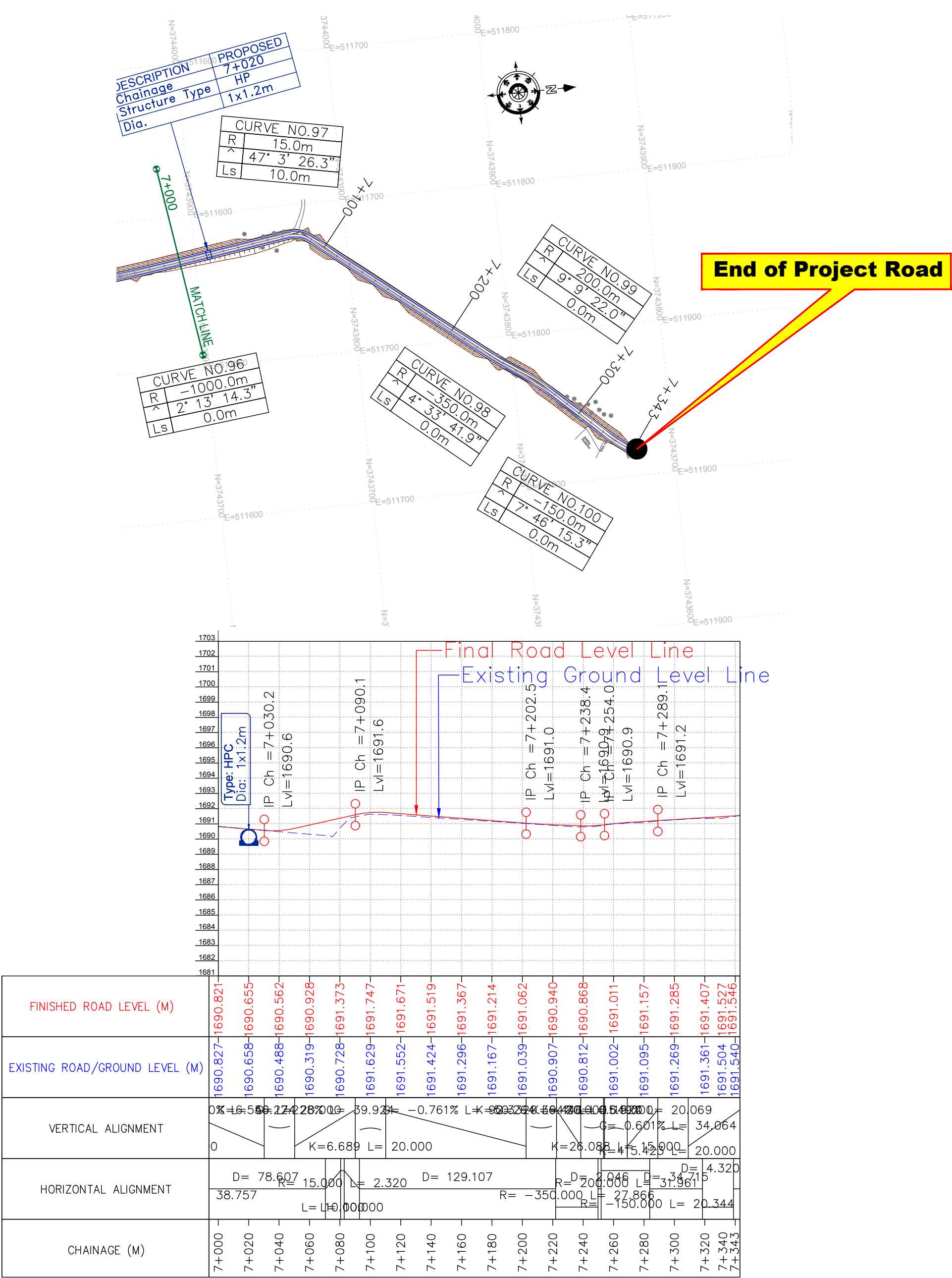
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Plan & Profile (Main Line)
(km 6+000 to km 7+000)

DRG. NO. : EPTISA/JTRP/DPR/J&K/PP/07

REVISION : R-1

September 2019



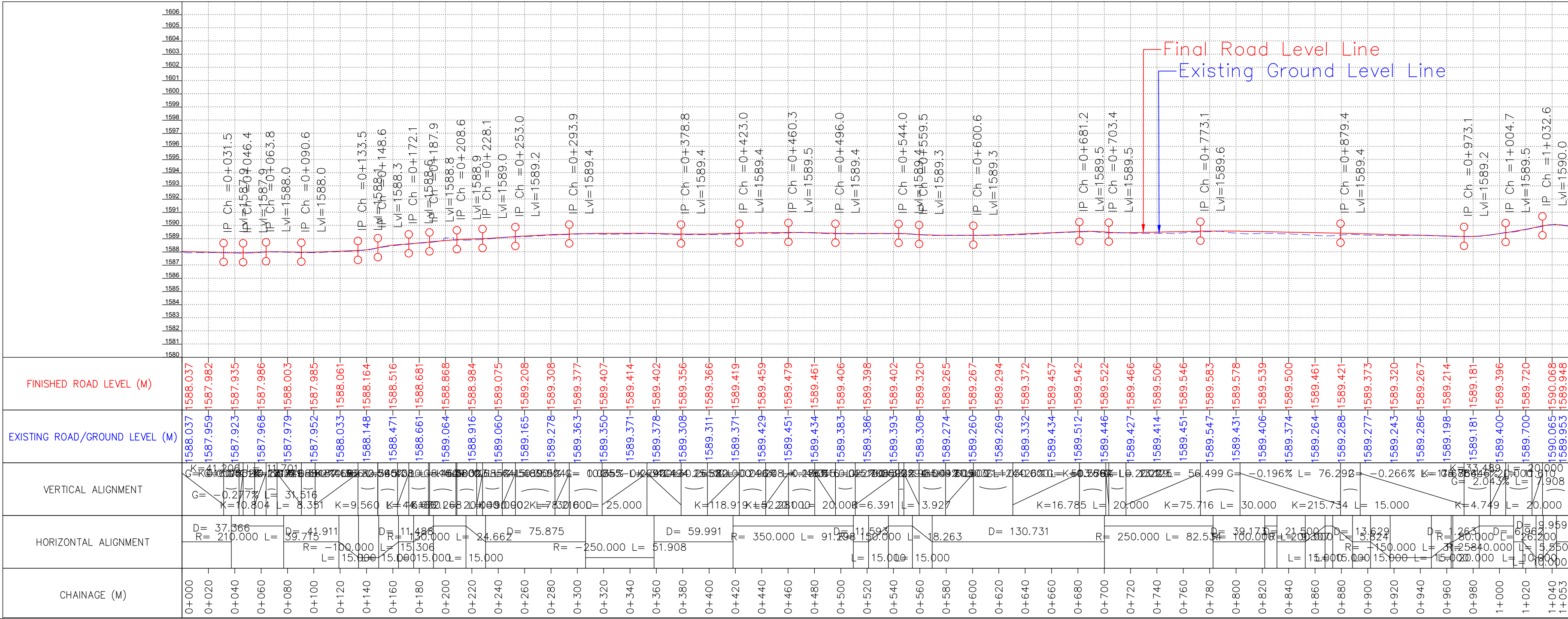
≡ PLAN PROFILE (FOR LINK ROAD NO.1) ≡

← Bijbehera

Karihama National Highway via Kitriteng →

Start of Link Road

End of Link Road



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
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**(Bijbehera to Karihama National Highway via Kitriteng
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West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : HOR 1:2500
VER 1:250

TITLE :

Plan & Profile (Link Road)
(km 0+000 to km 1+053)

DRG. NO. : EPTISA/JTRP/DPR/J&K/PP/01

REVISION : R-1

September 2019

HORIZONTAL ALIGNMENT REPORT

Horizontal Alignment Report																								
HIP No.	Start of Transition (TS)	Start of Curve	HIP	End of Curve	End of Transition (ST)	HIP Coordinates		Radius	Design Speed (V kmph)	Transition Start Length	Transition End Length	Circular Curve Length	Shift (s)		Tangent Length (Ts)		qs (°)		Dc (°)	D (°)	Apex Distance (Es)	Hand of Curve	e%	Extra Widening
		PC / SC		CS / PT		Easting	Northing						Leading	Trailing	Leading	Trailing	Leading	Trailing						
1	0+089.424	0+089.424	0+098.200	0+106.931	0+106.931	508844.939	3740000.871	100	40	0.00	0.00	17.51	0.000	0.000	8.78	8.78	0.00	0.00	10.03	10.03	0.384	Right	7.00	0.9
2	0+142.510	0+142.510	0+148.632	0+154.739	0+154.739	508889.211	3740025.120	100	40	0.00	0.00	12.23	0.000	0.000	6.12	6.12	0.00	0.00	7.01	7.01	0.187	Left	7.00	0.9
3	0+168.274	0+168.274	0+197.570	0+226.452	0+226.452	508928.956	3740053.698	200	40	0.00	0.00	58.18	0.000	0.000	29.30	29.30	0.00	0.00	16.67	16.67	2.134	Right	3.56	0.6
4	0+308.148	0+308.148	0+327.056	0+345.892	0+345.892	509051.741	3740096.098	250	40	0.00	0.00	37.74	0.000	0.000	18.91	18.91	0.00	0.00	8.65	8.65	0.714	Right	2.84	0.6
5	0+501.338	0+516.338	0+519.957	0+523.465	0+538.465	509241.588	3740130.291	100	40	15.00	15.00	7.13	0.094	0.094	18.62	18.62	4.30	4.30	4.08	12.68	0.709	Right	7.00	0.9
6	0+575.374	0+590.374	0+621.109	0+651.000	0+666.000	509342.543	3740128.187	210	40	15.00	15.00	60.63	0.045	0.045	45.74	45.74	2.05	2.05	16.54	20.63	3.496	Left	3.39	0.6
7	0+715.027	0+730.027	0+738.991	0+747.456	0+762.456	509455.561	3740162.994	80	40	15.00	15.00	17.43	0.117	0.117	23.96	23.96	5.37	5.37	12.48	23.23	1.791	Right	7.00	0.9
8	0+763.833	0+763.833	0+780.324	0+796.768	0+796.768	509497.086	3740160.748	250	40	0.00	0.00	32.94	0.000	0.000	16.49	16.49	0.00	0.00	7.55	7.55	0.543	Left	2.84	0.6
9	0+907.996	0+907.996	0+929.343	0+950.586	0+950.586	509645.990	3740167.713	250	40	0.00	0.00	42.59	0.000	0.000	21.35	21.35	0.00	0.00	9.76	9.76	0.910	Left	2.84	0.6
10	0+960.655	0+975.655	0+985.716	0+989.019	1+004.019	509698.367	3740174.762	20	20	15.00	15.00	13.36	0.469	0.469	25.06	25.06	21.49	21.49	38.29	81.26	6.970	Right	7.00	1.5
11	1+014.627	1+014.627	1+031.561	1+035.230	1+050.230	509718.072	3740136.090	20	20	0.00	15.00	20.60	0.000	0.469	16.93	24.83	0.00	21.49	59.02	80.51	6.206	Left	7.00	1.5
12	1+141.619	1+161.619	1+167.700	1+167.914	1+187.914	509856.380	3740153.692	20	20	20.00	20.00	6.30	0.833	0.833	26.08	26.08	28.65	28.65	18.03	75.33	6.318	Right	7.00	1.5
13	1+625.639	1+625.639	1+630.205	1+634.765	1+634.765	510176.927	3740218.176	100	40	0.00	0.00	9.13	0.000	0.000	4.57	4.57	0.00	0.00	5.23	5.23	0.104	Right	7.00	0.9
14	1+677.717	1+677.717	1+690.682	1+703.630	1+703.630	510165.433	3740277.557	300	40	0.00	0.00	25.91	0.000	0.000	12.96	12.96	0.00	0.00	4.95	4.95	0.280	Left	2.50	0.6
15	1+754.547	1+754.547	1+793.055	1+830.962	1+830.962	510137.377	3740376.027	250	40	0.00	0.00	76.42	0.000	0.000	38.51	38.51	0.00	0.00	17.51	17.51	2.948	Right	2.84	0.6
16	1+954.514	1+954.514	1+965.684	1+976.839	1+976.839	510142.242	3740549.188	250	40	0.00	0.00	22.33	0.000	0.000	11.17	11.17	0.00	0.00	5.12	5.12	0.249	Left	2.84	0.6
17	2+106.917	2+106.917	2+118.839	2+130.748	2+130.748	510132.872	3740702.072	300	40	0.00	0.00	23.83	0.000	0.000	11.92	11.92	0.00	0.00	4.55	4.55	0.237	Right	2.50	0.6
18	2+300.670	2+320.670	2+327.907	2+331.487	2+351.487	510132.648	3740908.900	30	20	20.00	20.00	10.82	0.556	0.556	27.24	27.24	19.10	19.10	20.66	58.86	5.082	Left	5.93	1.5
19	2+361.364	2+381.364	2+388.900	2+391.333	2+411.333	510087.163	3740947.690	25	20	20.00	20.00	9.97	0.667	0.667	27.54	27.54	22.92	22.92	22.85	68.68	6.085	Right	7.00	1.5
20	2+472.966	2+492.966	2+497.820	2+500.116	2+520.116	510099.911	3741056.378	30	20	20.00	20.00	7.15	0.556	0.556	24.85	24.85	19.10	19.10	13.66	51.85	3.975	Left	5.93	1.5
21	2+536.753	2+551.753	2+576.702	2+600.641	2+615.641	510051.488	3741119.539	150	40	15.00	15.00	48.89	0.063	0.063	39.95	39.95	2.86	2.86	18.67	24.40	3.531	Right	4.74	0.6
22	2+643.508	2+643.508	2+682.539	2+721.531	2+721.531	510019.678	3741221.216	1000	40	0.00	0.00	78.02	0.000	0.000	39.03	39.03	0.00	0.00	4.47	4.47	0.761	Left	2.50	0
23	2+874.699	2+874.699	2+882.174	2+889.621	2+889.621	509947.974	3741407.571	100	40	0.00	0.00	14.92	0.000	0.000	7.47	7.47	0.00	0.00	8.55	8.55	0.279	Left	7.00	0.9
24	2+897.150	2+917.150	2+918.496	2+918.818	2+938.818	509932.223	3741439.614	35	25	20.00	20.00	1.67	0.476	0.476	21.35	21.35	16.37	16.37	2.73	35.47	2.246	Right	7.00	1.5
25	2+949.496	2+964.496	2+976.925	2+988.257	3+003.257	509934.258	3741497.938	70	35	15.00	15.00	23.76	0.134	0.134	27.43	27.43	6.14	6.14	19.45	31.73	2.911	Left	7.00	0.9
26	3+042.561	3+042.561	3+079.267	3+115.609	3+115.609	509891.019	3741591.352	300	40	0.00	0.00	73.05	0.000	0.000	36.71	36.71	0.00	0.00	13.95	13.95	2.237	Left	2.50	0.6
27	3+202.246	3+217.246	3+218.380	3+219.455	3+234.455	509802.113	3741698.768	100	40	15.00	15.00	2.21	0.094	0.094	16.13	16.13	4.30	4.30	1.27	9.86	0.465	Right	7.00	0.9
28	3+269.842	3+269.842	3+277.893	3+285.941	3+285.941	509772.004	3741750.125	300	40	0.00	0.00	16.10	0.000	0.000	8.05	8.05	0.00	0.00	3.07	3.07	0.108	Left	2.50	0.6
29	3+399.711	3+399.711	3+403.988	3+408.260	3+408.260	509703.296	3741855.862	100	40	0.00	0.00	8.55	0.000	0.000	4.28	4.28	0.00	0.00	4.90	4.90	0.091	Right	7.00	0.9
30	3+476.271	3+476.271	3+492.325	3+504.813	3+504.813	509661.661	3741933.777	25	20	0.00	0.00	28.54	0.000	0.000	16.05	16.05	0.00	0.00	65.41	65.41	4.711	Right	7.00	1.5
31	3+515.837	3+515.837	3+532.762	3+547.860	3+547.860	509688.324	3741968.783	40	25	0.00	0.00	32.02	0.000	0.000	16.93	16.93	0.00	0.00	45.87	45.87	3.433	Left	6.94	1.5
32	3+574.594	3+589.594	3+591.597	3+593.525	3+608.525	509678.772	3742028.638	100	40	15.00	15.00	3.93	0.094	0.094	17.00	17.00	4.30	4.30	2.25	10.85	0.544	Left	7.00	0.9

Horizontal Alignment Report																								
HIP No.	Start of Transition (TS)	Start of Curve	HIP	End of Curve	End of Transition (ST)	HIP Coordinates		Radius	Design Speed (V kmph)	Transition Start Length	Transition End Length	Circular Curve Length	Shift (s)		Tangent Length (Ts)		qs (°)		Dc (°)	D (°)	Apex Distance (Es)	Hand of Curve	e%	Extra Widening
		PC / SC		CS / PT		Easting	Northing						Leading	Trailing	Leading	Trailing	Leading	Trailing						
51	4+649.859	4+649.859	4+651.902	4+653.738	4+653.738	509958.545	3742948.150	5	10	0.00	0.00	3.88	0.000	0.000	2.04	2.04	0.00	0.00	44.45	44.45	0.401	Left	7.00	1.5
52	4+656.907	4+656.907	4+658.478	4+659.951	4+659.951	509958.176	3742954.923	5	10	0.00	0.00	3.04	0.000	0.000	1.57	1.57	0.00	0.00	34.88	34.88	0.241	Right	7.00	1.5
53	4+662.911	4+662.911	4+670.527	4+678.114	4+678.114	509964.569	3742965.251	100	40	0.00	0.00	15.20	0.000	0.000	7.62	7.62	0.00	0.00	8.71	8.71	0.290	Left	7.00	0.9
54	4+678.913	4+678.913	4+716.644	4+753.809	4+753.809	509982.635	3743007.713	250	40	0.00	0.00	74.90	0.000	0.000	37.73	37.73	0.00	0.00	17.16	17.16	2.831	Left	2.84	0.6
55	4+781.392	4+781.392	4+788.991	4+796.586	4+796.586	509990.108	3743080.242	300	40	0.00	0.00	15.19	0.000	0.000	7.60	7.60	0.00	0.00	2.90	2.90	0.096	Right	2.50	0.6
56	4+858.376	4+858.376	4+863.327	4+868.190	4+868.190	510001.461	3743153.709	30	20	0.00	0.00	9.81	0.000	0.000	4.95	4.95	0.00	0.00	18.74	18.74	0.406	Right	5.93	1.5
57	4+872.755	4+872.755	4+876.094	4+879.405	4+879.405	510007.402	3743165.109	30	20	0.00	0.00	6.65	0.000	0.000	3.34	3.34	0.00	0.00	12.70	12.70	0.185	Left	5.93	1.5
58	4+901.984	4+911.984	4+923.183	4+934.309	4+944.309	510019.103	3743210.721	200	40	10.00	10.00	22.32	0.021	0.021	21.20	21.20	1.43	1.43	6.40	9.26	0.676	Left	3.56	0.6
59	4+949.446	4+949.446	4+956.610	4+963.767	4+963.767	510022.711	3743243.999	200	40	0.00	0.00	14.32	0.000	0.000	7.16	7.16	0.00	0.00	4.10	4.10	0.128	Right	3.56	0.6
60	4+964.623	4+964.623	5+027.976	5+091.066	5+091.066	510034.700	3743314.357	800	40	0.00	0.00	126.44	0.000	0.000	63.35	63.35	0.00	0.00	9.06	9.06	2.505	Left	2.50	0
61	5+108.846	5+108.846	5+117.727	5+126.603	5+126.603	510035.665	3743404.367	300	40	0.00	0.00	17.76	0.000	0.000	8.88	8.88	0.00	0.00	3.39	3.39	0.131	Right	2.50	0.6
62	5+176.295	5+186.295	5+187.752	5+189.185	5+199.185	510040.318	3743474.226	100	40	10.00	10.00	2.89	0.042	0.042	11.46	11.46	2.86	2.86	1.66	7.39	0.250	Left	7.00	0.9
63	5+213.304	5+213.304	5+223.472	5+232.118	5+232.118	510038.450	3743509.906	20	20	0.00	0.00	18.81	0.000	0.000	10.17	10.17	0.00	0.00	53.90	53.90	2.436	Right	7.00	1.5
64	5+235.154	5+235.154	5+242.161	5+248.817	5+248.817	510054.049	3743522.757	25	20	0.00	0.00	13.66	0.000	0.000	7.01	7.01	0.00	0.00	31.31	31.31	0.963	Left	7.00	1.5
65	5+249.788	5+259.788	5+263.244	5+264.954	5+274.954	510062.584	3743541.314	15	15	10.00	10.00	5.17	0.278	0.278	13.46	13.46	19.10	19.10	19.73	57.93	2.462	Right	6.67	1.5
66	5+303.040	5+303.040	5+308.514	5+313.977	5+313.977	510106.911	3743553.446	100	40	0.00	0.00	10.94	0.000	0.000	5.47	5.47	0.00	0.00	6.27	6.27	0.150	Right	7.00	0.9
67	5+324.734	5+324.734	5+339.479	5+352.645	5+352.645	510137.682	3743557.006	35	25	0.00	0.00	27.91	0.000	0.000	14.75	14.75	0.00	0.00	45.69	45.69	2.979	Left	7.00	1.5
68	5+389.066	5+389.066	5+392.462	5+395.855	5+395.855	510171.055	3743600.172	100	40	0.00	0.00	6.79	0.000	0.000	3.40	3.40	0.00	0.00	3.89	3.89	0.058	Right	7.00	0.9
69	5+441.931	5+441.931	5+464.553	5+487.089	5+487.089	510218.918	3743654.084	300	40	0.00	0.00	45.16	0.000	0.000	22.62	22.62	0.00	0.00	8.62	8.62	0.852	Right	2.50	0.6
70	5+509.405	5+509.405	5+516.466	5+523.504	5+523.504	510258.882	3743687.353	100	40	0.00	0.00	14.10	0.000	0.000	7.06	7.06	0.00	0.00	8.08	8.08	0.249	Right	7.00	0.9
71	5+527.752	5+542.752	5+552.116	5+561.392	5+576.392	510288.912	3743706.531	200	40	15.00	15.00	18.64	0.047	0.047	24.36	24.36	2.15	2.15	5.34	9.64	0.756	Left	3.56	0.6
72	5+636.396	5+636.396	5+643.556	5+650.714	5+650.714	510357.956	3743766.549	300	40	0.00	0.00	14.32	0.000	0.000	7.16	7.16	0.00	0.00	2.73	2.73	0.085	Left	2.50	0.6
73	5+667.614	5+667.614	5+677.223	5+686.825	5+686.825	510382.147	3743789.968	300	40	0.00	0.00	19.21	0.000	0.000	9.61	9.61	0.00	0.00	3.67	3.67	0.154	Right	2.50	0.6
74	5+732.394	5+732.394	5+749.516	5+766.625	5+766.625	510437.205	3743836.828	500	40	0.00	0.00	34.23	0.000	0.000	17.12	17.12	0.00	0.00	3.92	3.92	0.293	Right	2.50	0
75	5+783.102	5+783.102	5+805.210	5+827.283	5+827.283	510481.998	3743869.949	450	40	0.00	0.00	44.18	0.000	0.000	22.11	22.11	0.00	0.00	5.63	5.63	0.543	Right	2.50	0
76	5+839.874	5+849.874	5+854.794	5+859.641	5+869.641	510524.348	3743895.727	100	40	10.00	10.00	9.77	0.042	0.042	14.92	14.92	2.86	2.86	5.60	11.33	0.532	Left	7.00	0.9
77	5+925.015	5+925.015	5+930.389	5+935.762	5+935.762	510580.667	3743946.203	500	40	0.00	0.00	10.75	0.000	0.000	5.37	5.37	0.00	0.00	1.23	1.23	0.029	Left	2.50	0
78	5+981.496	5+981.496	5+985.430	5+989.265	5+989.265	510620.651	3743984.030	20	20	0.00	0.00	7.77	0.000	0.000	3.93	3.93	0.00	0.00	22.26	22.26	0.383	Left	7.00	1.5
79	5+990.903	5+990.903	5+995.287	5+999.534	5+999.534	510624.753	3743993.101	20	20	0.00	0.00	8.63	0.000	0.000	4.38	4.38	0.00	0.00	24.73	24.73	0.475	Right	7.00	1.5
80	6+029.567	6+049.567	6+051.846	6+051.878	6+071.878	510668.444	3744026.920	25	20	20.00	20.00	2.31	0.667	0.667	22.28	22.28	22.92	22.92	5.30	51.13	3.453	Right	7.00	1.5
81	6+121.181	6+121.181	6+131.893	6+142.599	6+142.599	510748.478	3744015.672	350	40	0.00	0.00	21.42	0.000	0.000	10.71	10.71	0.00	0.00	3.51	3.51	0.164	Left	2.50	0
82	6+202.933	6+217.933	6+230.893	6+243.585	6+258.585	510846.587	3744003.278	150	40	15.00	15.00	25.65	0.063	0.063	27.96	27.96	2.86	2.86	9.80	15.53	1.451			

≡ HORIZONTAL ALIGNMENT REPORT (FOR LINK ROAD NO.1) ≡

Horizontal Alignment Report																								
HIP No.	Start of Transition (TS)	Start of Curve	HIP	End of Curve	End of Transition (ST)	HIP Coordinates		Radius	Design Speed (V kmph)	Transition Start Length	Transition End Length	Circular Curve Length	Shift (s)		Tangent Length (Ts)		qs (°)		Dc (°)	D (°)	Apex Distance (Es)	Hand of Curve	e%	Extra Widening
		PC / SC		CS / PT		Easting	Northing						Leading	Trailing	Leading	Trailing	Leading	Trailing						
1	0+037.366	0+037.366	0+057.283	0+077.081	0+077.081	510208.657	3740126.085	210	40	0.00	0.00	39.72	0.000	0.000	19.92	19.92	0.00	0.00	10.84	10.84	0.942	Right	3.39	0.6
2	0+133.993	0+133.993	0+142.811	0+149.298	0+149.298	510224.492	3740043.110	100	40	0.00	0.00	15.31	15.000	15.000	8.82	8.82	0.00	0.00	8.77	8.77	15.338	Left	7.00	0.9
3	0+190.787	0+190.787	0+204.582	0+215.449	0+215.449	510251.168	3739987.697	130	40	0.00	0.00	24.66	15.000	15.000	13.80	13.80	0.00	0.00	10.87	10.87	15.655	Right	5.47	0.6
4	0+306.324	0+306.324	0+332.372	0+358.232	0+358.232	510274.697	3739860.587	250	40	0.00	0.00	51.91	0.000	0.000	26.05	26.05	0.00	0.00	11.90	11.90	1.353	Right	2.84	0.6
5	0+403.224	0+418.224	0+464.285	0+509.522	0+524.522	510323.998	3739738.195	350	40	15.00	15.00	91.30	0.000	0.000	61.06	61.06	1.23	1.23	14.95	17.40	4.075	Right	2.50	0
6	0+521.115	0+536.115	0+546.985	0+554.378	0+569.378	510333.237	3739657.086	150	40	15.00	15.00	18.26	15.000	15.000	25.87	25.87	2.86	2.86	6.98	12.71	16.019	Left	4.74	0.6
7	0+685.109	0+700.109	0+742.004	0+782.643	0+797.643	510314.385	3739461.487	250	40	15.00	15.00	82.53	0.000	0.000	56.90	56.90	1.72	1.72	18.92	22.35	4.833	Right	2.84	0.6
8	0+821.816	0+821.816	0+826.473	0+831.123	0+831.123	510278.766	3739383.785	100	40	0.00	0.00	9.31	0.000	0.000	4.66	4.66	0.00	0.00	5.33	5.33	0.108	Left	7.00	0.9
9	0+867.623	0+867.623	0+870.754	0+873.447	0+873.447	510256.504	3739345.756	200	40	0.00	0.00	5.82	15.000	15.000	3.13	3.13	0.00	0.00	1.67	1.67	15.023	Left	3.56	0.6
10	0+902.076	0+917.076	0+935.221	0+948.334	0+963.334	510221.088	3739294.608	150	40	15.00	15.00	31.26	15.000	15.000	33.15	33.15	2.86	2.86	11.94	17.67	16.981	Right	4.74	0.6
11	0+984.597	0+984.597	1+005.977	1+010.797	1+025.797	510197.385	3739233.971	80	35	0.00	15.00	26.20	20.000	0.000	21.38	24.60	0.00	5.37	18.76	24.14	22.260	Left	6.81	0.9
12	1+007.759	1+027.759	1+034.294	1+033.309	1+053.309	510174.987	3739209.829	40	25	20.00	20.00	5.55	10.000	10.000	26.53	26.53	14.32	14.32	7.95	36.60	12.663	Right	6.94	1.5

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
***(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)***

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION
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DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	N.T.S

TITLE : Horizontal Alignment Report (Link Road)	
DRG. NO. : EPTISA/JTRFP/DPR/J&K/HAR/LINK/01	
REVISION : R-1	September 2019

≡ VERTICAL ALIGNMENT REPORT ≡

Vertical Alignment Report

PVI No.	Start		PVI Details		End		Gradient (%)		Type of Curve	Curve Lenght (m)	K-Value
	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	IN	OUT			
1	0+028.702	1588.024	0+038.702	1588.025	0+048.702	1588.153	0.019	1.272	Sag	20	15.95
2	0+053.723	1588.217	0+061.223	1588.312	0+068.723	1588.338	1.272	0.347	Hog	15	16.21
3	0+138.149	1588.579	0+153.149	1588.631	0+168.149	1589.259	0.347	4.185	Sag	30	7.82
4	0+191.812	1590.249	0+206.812	1590.877	0+221.812	1591.209	4.185	2.217	Hog	30	15.24
5	0+248.075	1591.791	0+263.075	1592.124	0+278.075	1592.190	2.217	0.441	Hog	30	16.90
6	0+374.874	1592.617	0+384.874	1592.661	0+394.874	1592.533	0.441	-1.279	Hog	20	11.63
7	0+415.143	1592.274	0+445.143	1591.891	0+475.143	1592.347	-1.279	1.521	Sag	60	21.43
8	0+549.666	1593.480	0+569.666	1593.784	0+589.666	1593.766	1.521	-0.090	Hog	40	24.83
9	0+631.000	1593.729	0+651.000	1593.711	0+671.000	1593.234	-0.090	-2.385	Hog	40	17.43
10	0+714.926	1592.186	0+729.926	1591.828	0+744.926	1591.329	-2.385	-3.325	Hog	30	31.92
11	0+746.565	1591.275	0+796.565	1589.612	0+846.565	1590.367	-3.325	1.510	Sag	100	20.68
12	0+862.223	1590.604	0+872.223	1590.755	0+882.223	1590.726	1.510	-0.290	Hog	20	11.11
13	0+903.127	1590.665	0+913.127	1590.636	0+923.127	1590.562	-0.290	-0.744	Hog	20	44.04
14	0+943.301	1590.411	0+953.301	1590.337	0+963.301	1590.381	-0.744	0.440	Sag	20	16.89
15	0+993.691	1590.515	1+003.691	1590.559	1+013.691	1590.819	0.440	2.607	Sag	20	9.23
16	1+034.842	1591.371	1+044.842	1591.631	1+054.842	1591.320	2.607	-3.114	Hog	20	3.50
17	1+072.618	1590.766	1+082.618	1590.455	1+092.618	1590.365	-3.114	-0.901	Sag	20	9.04
18	1+114.934	1590.164	1+124.934	1590.074	1+134.934	1589.729	-0.901	-3.450	Hog	20	7.85
19	1+137.735	1589.632	1+147.735	1589.287	1+157.735	1589.183	-3.450	-1.039	Sag	20	8.29
20	1+163.629	1589.122	1+173.629	1589.018	1+183.629	1589.119	-1.039	1.012	Sag	20	9.75
21	1+594.611	1588.132	1+602.111	1588.286	1+609.611	1588.215	2.054	-0.956	Hog	15	4.98
22	1+613.477	1588.178	1+620.977	1588.106	1+628.477	1588.113	-0.956	0.099	Sag	15	14.22
23	1+638.769	1588.124	1+646.269	1588.131	1+653.769	1588.003	0.099	-1.713	Hog	15	8.28
24	1+656.555	1587.955	1+664.055	1587.826	1+671.555	1587.828	-1.713	0.028	Sag	15	8.62
25	1+679.847	1587.831	1+694.847	1587.835	1+709.847	1587.829	0.028	-0.040	Hog	30	441.98
26	1+755.208	1587.811	1+770.208	1587.805	1+785.208	1587.818	-0.040	0.086	Sag	30	239.10
27	1+864.941	1587.886	1+879.941	1587.899	1+894.941	1587.848	0.086	-0.342	Hog	30	70.20
28	1+913.837	1587.783	1+923.837	1587.749	1+933.837	1587.784	-0.342	0.354	Sag	20	28.74
29	1+956.263	1587.864	1+971.263	1587.917	1+986.263	1587.938	0.354	0.142	Hog	30	141.38
30	2+033.779	1588.006	2+043.779	1588.020	2+053.779	1588.097	0.142	0.774	Sag	20	31.65
31	2+057.679	1588.128	2+067.679	1588.205	2+077.679	1588.186	0.774	-0.194	Hog	20	20.66
32	2+079.779	1588.182	2+087.279	1588.167	2+094.779	1588.176	-0.194	0.125	Sag	15	46.97
33	2+095.358	1588.177	2+105.358	1588.190	2+115.358	1588.246	0.125	0.560	Sag	20	46.05
34	2+117.796	1588.259	2+132.796	1588.343	2+147.796	1588.346	0.560	0.016	Hog	30	55.16
35	2+148.687	1588.346	2+156.187	1588.347	2+163.687	1588.396	0.016	0.652	Sag	15	23.58
36	2+163.839	1588.397	2+171.339	1588.446	2+178.839	1588.447	0.652	0.017	Hog	15	23.63
37	2+186.514	1588.448	2+194.014	1588.450	2+201.514	1588.490	0.017	0.544	Sag	15	28.48
38	2+203.863	1588.503	2+211.363	1588.544	2+218.863	1588.559	0.544	0.204	Hog	15	44.14
39	2+275.420	1588.675	2+285.420	1588.695	2+295.420	1589.099	0.204	4.044	Sag	20	5.21
40	2+317.561	1589.995	2+325.061	1590.298	2+332.561	1590.527	4.044	3.057	Hog	15	15.20
41	2+342.686	1590.837	2+350.186	1591.066	2+357.686	1590.842	3.057	-2.988	Hog	15	2.48
42	2+392.720	1589.795	2+400.220	1589.571	2+407.720	1589.412	-2.988	-2.121	Sag	15	17.30
43	2+446.699	1588.585	2+461.699	1588.267	2+476.699	1588.350	-2.121	0.556	Sag	30	11.21
44	2+487.860	1588.412	2+497.860	1588.468	2+507.860	1588.432	0.556	-0.362	Hog	20	21.79
45	2+571.257	1588.202	2+581.257	1588.166	2+591.257	1588.146	-0.362	-0.199	Sag	20	122.76
46	2+708.797	1587.912	2+716.297	1587.897	2+723.797	1587.974	-0.199	1.022	Sag	15	12.28
47	2+731.684	1588.054	2+739.184	1588.131	2+746.684	1588.118	1.022	-0.172	Hog	15	12.56
48	2+753.016	1588.107	2+763.016	1588.090	2+773.016	1588.133	-0.172	0.431	Sag	20	33.15
49	2+776.207	1588.147	2+786.207	1588.190	2+796.207	1588.203	0.431	0.132	Hog	20	66.76
50	2+821.795	1588.237	2+831.795	1588.250	2+841.795	1588.333	0.132	0.825	Sag	20	28.83

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
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***(Bijbehera to Karihama National Highway via Kitriteng
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DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
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Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	N.T.S

TITLE : Vertical Alignment Report (Main Line)	
DRG. NO. : EPTISA/JTRP/DPR/J&K/VAR/01	
REVISION : R-1	September 2019

Vertical Alignment Report

PVI No.	Start		PVI Details		End		Gradient (%)		Type of Curve	Curve Lenght (m)	K-Value
	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	IN	OUT			
51	2+843.607	1588.347	2+853.607	1588.430	2+863.607	1588.552	0.825	1.218	Sag	20	50.94
52	2+868.486	1588.611	2+878.486	1588.733	2+888.486	1588.656	1.218	-0.773	Hog	20	10.04
53	2+892.605	1588.624	2+900.105	1588.566	2+907.605	1588.322	-0.773	-3.250	Hog	15	6.06
54	2+909.058	1588.275	2+916.558	1588.031	2+924.058	1588.026	-3.250	-0.066	Sag	15	4.71
55	2+937.218	1588.018	2+947.218	1588.011	2+957.218	1588.052	-0.066	0.407	Sag	20	42.29
56	2+985.814	1588.168	2+995.814	1588.209	3+005.814	1588.098	0.407	-1.107	Hog	20	13.21
57	3+007.343	1588.081	3+019.843	1587.943	3+032.343	1587.928	-1.107	-0.121	Sag	25	25.36
58	3+108.048	1587.836	3+115.548	1587.827	3+123.048	1587.851	-0.121	0.321	Sag	15	33.92
59	3+175.283	1588.019	3+200.283	1588.099	3+225.283	1589.025	0.321	3.704	Sag	50	14.78
60	3+246.513	1589.811	3+254.013	1590.089	3+261.513	1590.319	3.704	3.069	Hog	15	23.62
61	3+325.960	1592.297	3+333.460	1592.527	3+340.960	1592.718	3.069	2.541	Hog	15	28.43
62	3+395.396	1594.101	3+405.396	1594.355	3+415.396	1594.688	2.541	3.335	Sag	20	25.21
63	3+445.973	1595.708	3+465.973	1596.375	3+485.973	1594.458	3.335	-9.585	Hog	40	3.10
64	3+525.220	1590.696	3+535.220	1589.738	3+545.220	1589.930	-9.585	1.918	Sag	20	1.74
65	3+695.000	1592.803	3+820.000	1595.200	3+945.000	1607.977	1.918	10.222	Sag	250	30.11
66	3+982.977	1611.859	4+002.977	1613.903	4+022.977	1615.850	10.222	9.732	Hog	40	81.62
67	4+077.647	1621.170	4+092.647	1622.629	4+107.647	1624.316	9.732	11.243	Sag	30	19.85
68	4+162.143	1630.443	4+182.143	1632.691	4+202.143	1634.565	11.243	9.371	Hog	40	21.37
69	4+276.288	1641.513	4+286.288	1642.451	4+296.288	1643.475	9.371	10.247	Sag	20	22.84
70	4+520.560	1666.456	4+670.560	1681.825	4+820.560	1681.371	10.247	-0.303	Hog	300	28.44
71	4+997.504	1680.835	5+047.504	1680.683	5+097.504	1680.185	-0.303	-0.996	Hog	100	144.24
72	5+168.495	1679.477	5+183.495	1679.328	5+198.495	1679.479	-0.996	1.008	Sag	30	14.97
73	5+305.220	1680.555	5+320.220	1680.706	5+335.220	1681.193	1.008	3.246	Sag	30	13.41
74	5+430.453	1684.284	5+450.453	1684.933	5+470.453	1685.108	3.246	0.874	Hog	40	16.87
75	5+585.930	1686.117	5+605.930	1686.292	5+625.930	1686.449	0.874	0.784	Hog	40	442.26
76	5+749.549	1687.417	5+764.549	1687.535	5+779.549	1687.644	0.784	0.725	Hog	30	512.11
77	5+901.399	1688.527	5+916.399	1688.636	5+931.399	1688.720	0.725	0.558	Hog	30	179.27
78	5+994.278	1689.070	6+009.278	1689.154	6+024.278	1689.538	0.558	2.563	Sag	30	14.96
79	6+029.584	1689.675	6+044.584	1690.059	6+059.584	1689.983	2.563	-0.504	Hog	30	9.78
80	6+078.524	1689.888	6+086.024	1689.850	6+093.524	1689.903	-0.504	0.702	Sag	15	12.44
81	6+126.440	1690.134	6+141.440	1690.239	6+156.440	1690.189	0.702	-0.331	Hog	30	29.04
82	6+173.804	1690.132	6+181.304	1690.107	6+188.804	1690.203	-0.331	1.284	Sag	15	9.29
83	6+202.382	1690.378	6+212.382	1690.506	6+222.382	1690.466	1.284	-0.405	Hog	20	11.84
84	6+276.487	1690.246	6+286.487	1690.206	6+296.487	1690.146	-0.405	-0.605	Hog	20	100.08
85	6+328.766	1689.950	6+336.266	1689.905	6+343.766	1689.831	-0.605	-0.985	Hog	15	39.42
86	6+352.720	1689.743	6+360.220	1689.669	6+367.720	1689.722	-0.985	0.713	Sag	15	8.84
87	6+373.772	1689.766	6+381.272	1689.819	6+388.772	1689.564	0.713	-3.405	Hog	15	3.64
88	6+390.834	1689.493	6+400.834	1689.153	6+410.834	1689.172	-3.405	0.192	Sag	20	5.56
89	6+417.021	1689.184	6+424.521	1689.198	6+432.021	1689.132	0.192	-0.881	Hog	15	13.97
90	6+434.023	1689.115	6+441.523	1689.049	6+449.023	1689.074	-0.881	0.342	Sag	15	12.26
91	6+457.181	1689.102	6+464.681	1689.128	6+472.181	1689.051	0.342	-1.020	Hog	15	11.01
92	6+472.469	1689.048	6+479.969	1688.972	6+487.469	1688.974	-1.020	0.022	Sag	15	14.39
93	6+517.597	1688.980	6+525.097	1688.982	6+532.597	1689.006	0.022	0.316	Sag	15	51.12
94	6+542.195	1689.036	6+549.695	1689.060	6+557.195	1689.187	0.316	1.699	Sag	15	10.85
95	6+559.084	1689.219	6+569.084	1689.389	6+579.084	1689.420	1.699	0.306	Hog	20	14.36
96	6+616.876	1689.535	6+624.376	1689.558	6+631.876	1689.490	0.306	-0.907	Hog	15	12.37
97	6+636.276	1689.450	6+643.776	1689.382	6+651.276	1689.437	-0.907	0.731	Sag	15	9.16
98	6+676.793	1689.623	6+691.793	1689.733	6+706.793	1689.761	0.731	0.190	Hog	30	55.44
99	6+746.240	1689.836	6+746.446	1689.837	6+746.652	1689.838	0.190	0.466	Sag	0	1.49
100	6+752.998	1689.867	6+765.498	1689.926	6+777.998	1690.074	0.466	1.190	Sag	25	34.57

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
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***(Bijbehera to Karihama National Highway via Kitriteng
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DESIGN CONSULTANT:



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REV.	DATE	DESCRIPTION
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DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	N.T.S

TITLE :

Vertical Alignment Report (Main Line)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/VAR/02

REVISION : R-1

September 2019

Vertical Alignment Report

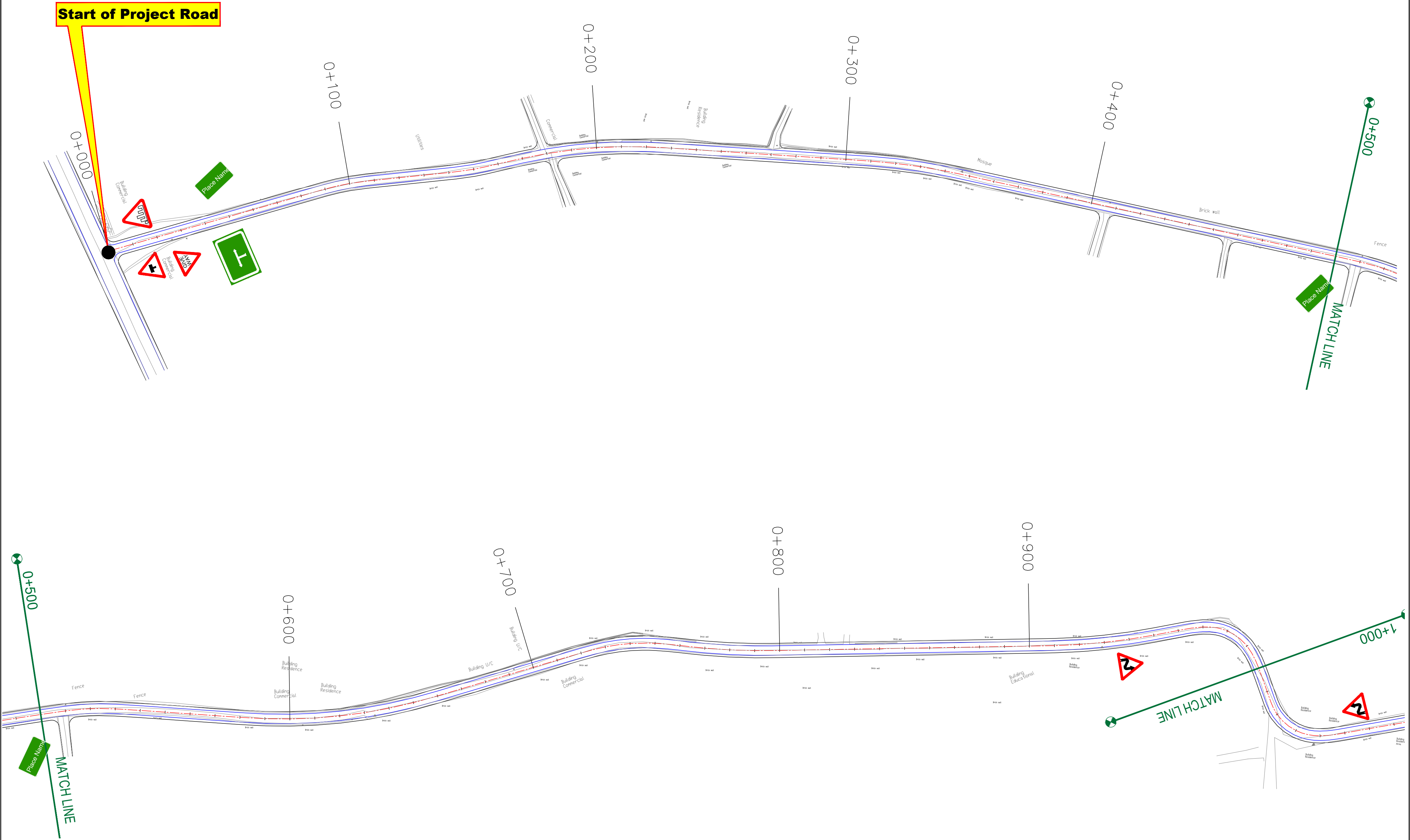
PVI No.	Start		PVI Details		End		Gradient (%)		Type of Curve	Curve Lenght (m)	K-Value
	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	IN	OUT			
101	6+780.306	1690.102	6+787.806	1690.191	6+795.306	1690.304	1.190	1.505	Sag	15	47.59
102	6+795.729	1690.310	6+803.229	1690.423	6+810.729	1690.460	1.505	0.490	Hog	15	14.78
103	6+822.054	1690.515	6+829.554	1690.552	6+837.054	1690.408	0.490	-1.924	Hog	15	6.21
104	6+838.478	1690.380	6+845.978	1690.236	6+853.478	1690.248	-1.924	0.162	Sag	15	7.19
105	6+864.922	1690.267	6+874.922	1690.283	6+884.922	1690.318	0.162	0.346	Sag	20	108.92
106	6+890.062	1690.335	6+900.062	1690.370	6+910.062	1690.415	0.346	0.452	Sag	20	188.78
107	6+922.480	1690.471	6+929.980	1690.505	6+937.480	1690.675	0.452	2.265	Sag	15	8.28
108	6+943.946	1690.822	6+958.946	1691.161	6+973.946	1691.037	2.265	-0.830	Hog	30	9.70
109	7+030.220	1690.570	7+040.220	1690.487	7+050.220	1690.710	-0.830	2.228	Sag	20	6.54
110	7+090.144	1691.599	7+100.144	1691.822	7+110.144	1691.746	2.228	-0.761	Hog	20	6.69
111	7+202.476	1691.043	7+212.476	1690.967	7+222.476	1690.931	-0.761	-0.364	Sag	20	50.26
112	7+238.396	1690.873	7+245.896	1690.846	7+253.396	1690.937	-0.364	1.224	Sag	15	9.45
113	7+254.035	1690.945	7+261.535	1691.037	7+269.035	1691.086	1.224	0.649	Hog	15	26.09
114	7+289.104	1691.216	7+299.104	1691.281	7+309.104	1691.341	0.649	0.601	Hog	20	415.42

≡ VERTICAL ALIGNMENT REPORT (FOR LINK ROAD NO.1) ≡

Vertical Alignment Report

PVI No.	Start		PVI Details		End		Gradient (%)		Type of Curve	Curve Lenght (m)	K-Value
	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	Chainage (Km)	Level(m)	IN	OUT			
1	0+031.516	1587.950	0+037.367	1587.934	0+043.217	1587.934	-0.277	0.007	Sag	12	41.21
2	0+046.391	1587.934	0+050.746	1587.935	0+055.102	1587.959	0.007	0.552	Sag	9	16.00
3	0+063.790	1588.007	0+067.965	1588.030	0+072.141	1588.020	0.552	-0.221	Hog	8	10.80
4	0+090.561	1587.980	0+095.753	1587.968	0+100.946	1587.988	-0.221	0.382	Sag	10	17.23
5	0+133.536	1588.112	0+141.036	1588.141	0+148.536	1588.316	0.382	2.334	Sag	15	7.68
6	0+148.595	1588.317	0+156.095	1588.493	0+163.595	1588.550	2.334	0.765	Hog	15	9.56
7	0+172.059	1588.615	0+179.559	1588.672	0+187.059	1588.750	0.765	1.041	Sag	15	54.44
8	0+187.902	1588.759	0+197.902	1588.863	0+207.902	1588.922	1.041	0.588	Hog	20	44.17
9	0+208.588	1588.926	0+216.088	1588.970	0+223.588	1588.998	0.588	0.380	Hog	15	72.27
10	0+228.106	1589.016	0+235.606	1589.044	0+243.106	1589.096	0.380	0.685	Sag	15	49.30
11	0+253.010	1589.163	0+268.010	1589.266	0+283.010	1589.319	0.685	0.355	Hog	30	90.90
12	0+293.865	1589.358	0+306.365	1589.402	0+318.865	1589.406	0.355	0.035	Hog	25	78.22
13	0+378.760	1589.359	0+388.760	1589.336	0+398.760	1589.362	-0.229	0.265	Sag	20	40.49
14	0+422.968	1589.427	0+432.968	1589.453	0+442.968	1589.463	0.265	0.096	Hog	20	118.92
15	0+460.283	1589.479	0+470.283	1589.489	0+480.283	1589.460	0.096	-0.286	Hog	20	52.28
16	0+495.991	1589.415	0+503.491	1589.394	0+510.991	1589.396	-0.286	0.022	Sag	15	48.62
17	0+543.976	1589.403	0+545.939	1589.404	0+547.903	1589.392	0.022	-0.592	Hog	4	6.39
18	0+559.508	1589.323	0+569.508	1589.264	0+579.508	1589.265	-0.592	0.009	Sag	20	33.29
19	0+600.632	1589.267	0+615.632	1589.268	0+630.632	1589.332	0.009	0.426	Sag	30	71.90
20	0+681.208	1589.547	0+691.208	1589.590	0+701.208	1589.513	0.426	-0.766	Hog	20	16.79
21	0+703.438	1589.496	0+710.000	1589.446	0+716.562	1589.459	-0.766	0.200	Sag	13	13.59
22	0+773.061	1589.572	0+788.061	1589.602	0+803.061	1589.573	0.200	-0.196	Hog	30	75.72
23	0+879.353	1589.423	0+886.853	1589.408	0+894.353	1589.388	-0.196	-0.266	Hog	15	215.73
24	0+973.109	1589.179	0+983.109	1589.152	0+993.109	1589.297	-0.266	1.446	Sag	20	11.69
25	1+004.719	1589.464	1+014.719	1589.609	1+024.719	1589.813	1.446	2.043	Sag	20	33.49
26	1+032.627	1589.975	1+042.627	1590.179	1+052.627	1589.962	2.043	-2.169	Hog	20	4.75

≡ SIGNAGE PLAN (MAIN ROAD) ≡



CLIENT :



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Ph: 033-40347200
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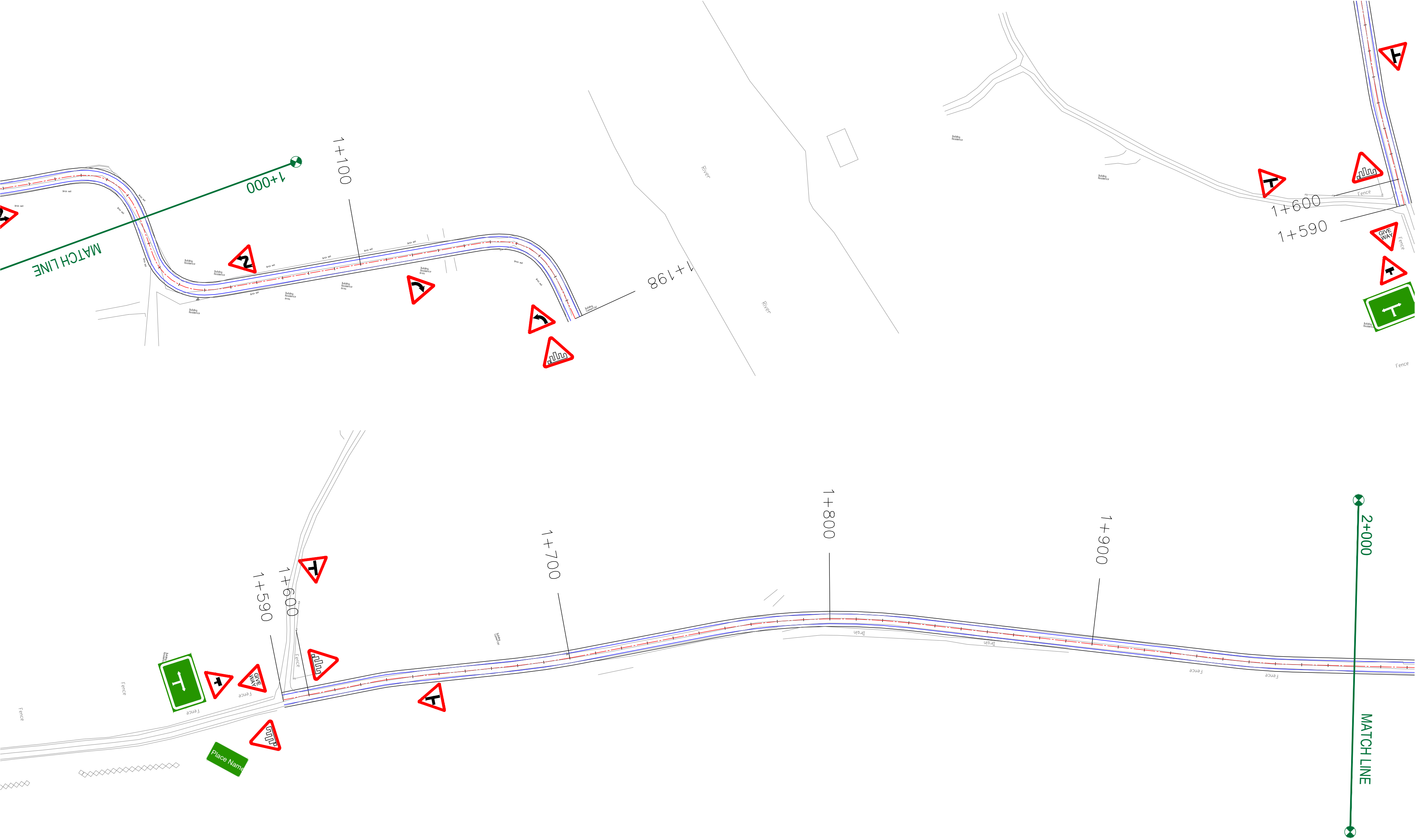
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Signage Plan (Main Road) (Ch. 0+000 to Ch. 1+000)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/SP/01
REVISION : R-1	September 2019

← Bijbehera

Karihama National Highway via Kitriteng ➡



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:

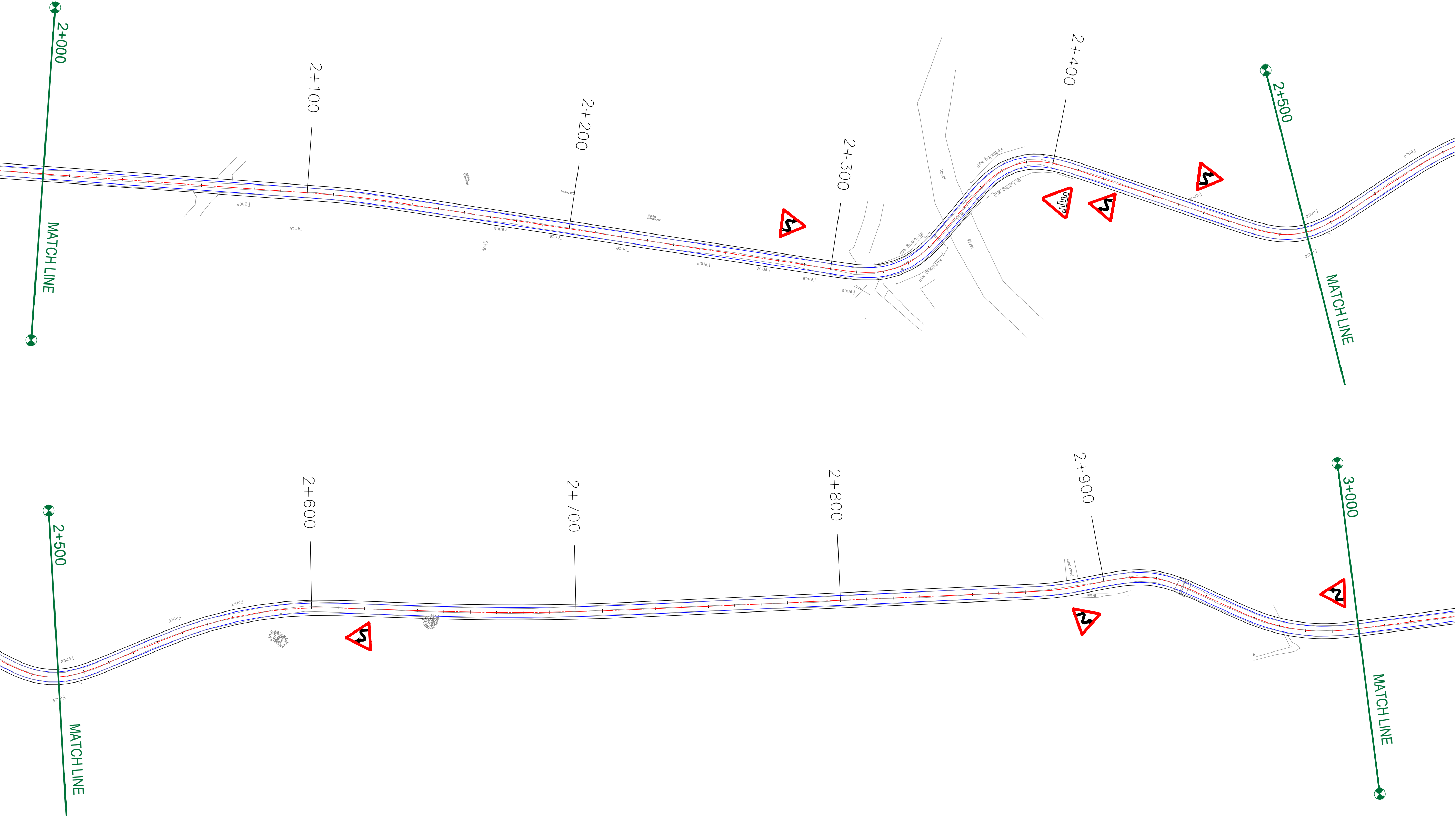


servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Signage Plan (Main Road) (Ch. 1+000 to Ch. 2+000)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/SP/02
REVISION : R-1	September 2019



CLIENT :



Jhelum & Tawi
FLOOD RECOVERY PROJECT

Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



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REV.	DATE	DESCRIPTION		SCALE :	1:1000

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE :

Signage Plan (Main Road)
(Ch. 2+000 to Ch. 3+000)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/SP/03

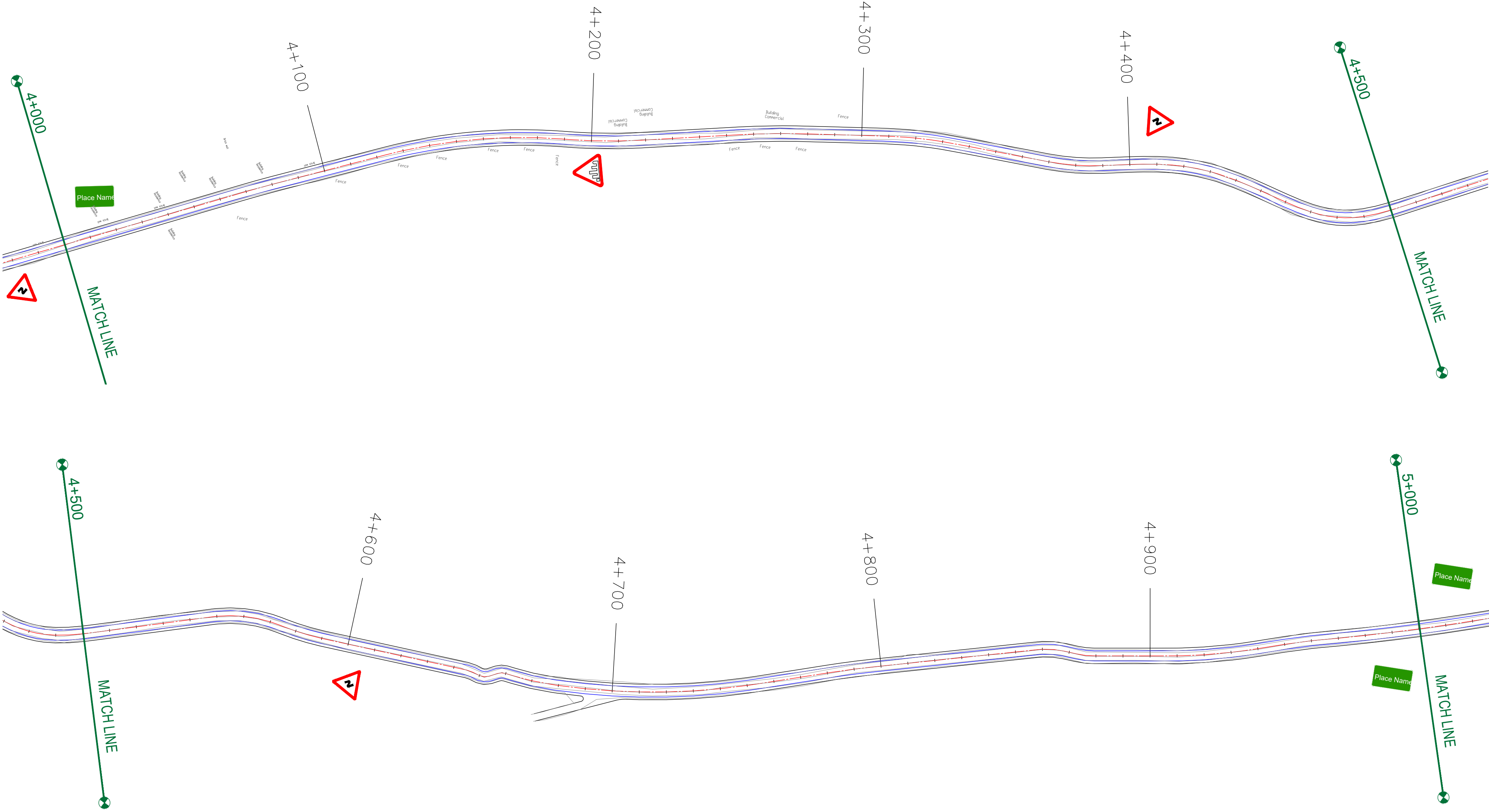
REVISION : R-1

September 2019



← Bijbehera

Karihama National Highway via Kitriteng →



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

TITLE :

Signage Plan (Main Road)
(Ch. 4+000 to Ch. 5+000)

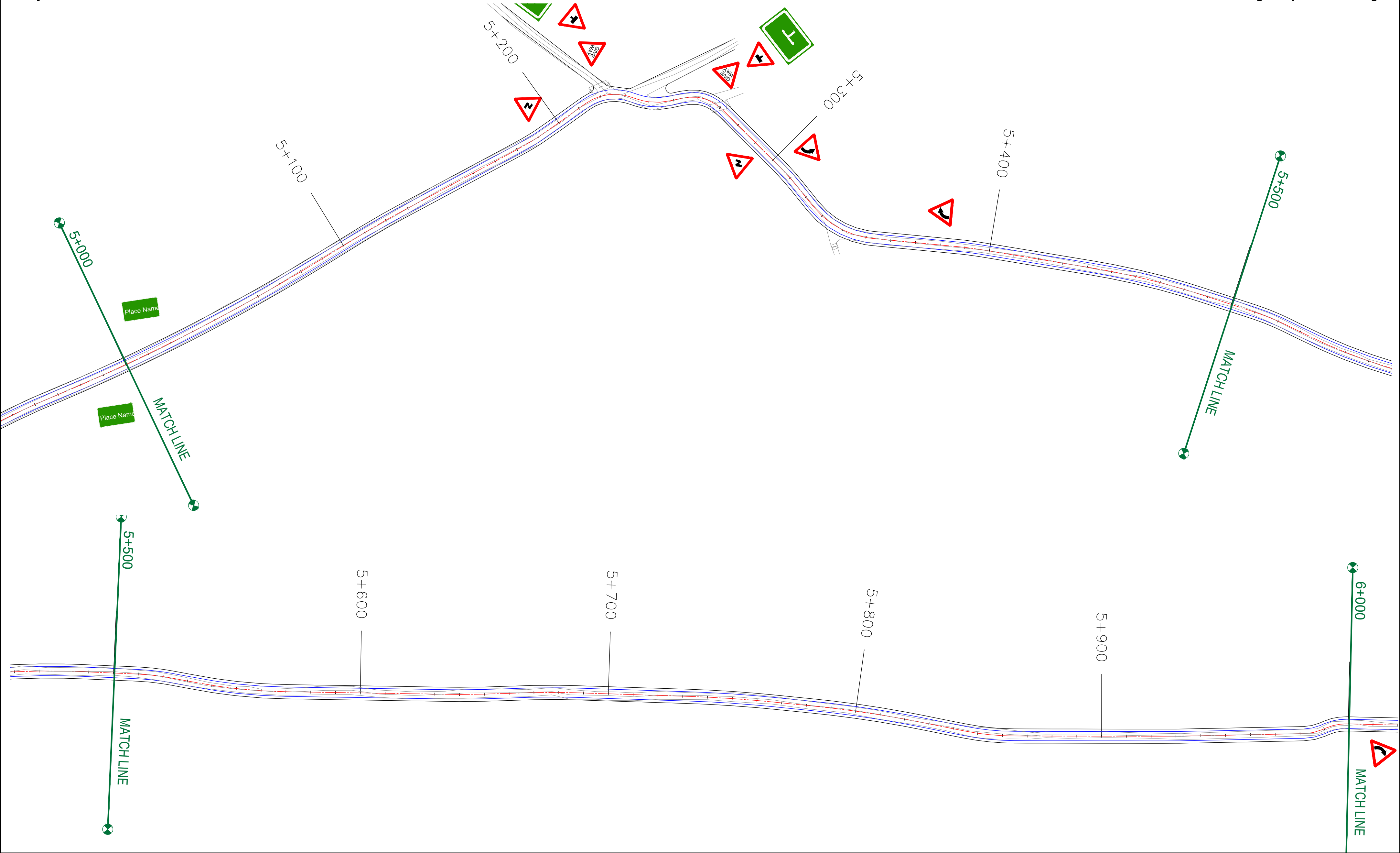
DRG. NO. : EPTISA/JTRFP/DPR/J&K/SP/05

REVISION : R-1

September 2019

← Bijbehera

Karihama National Highway via Kitriteng →



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
***(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)***

DESIGN CONSULTANT:

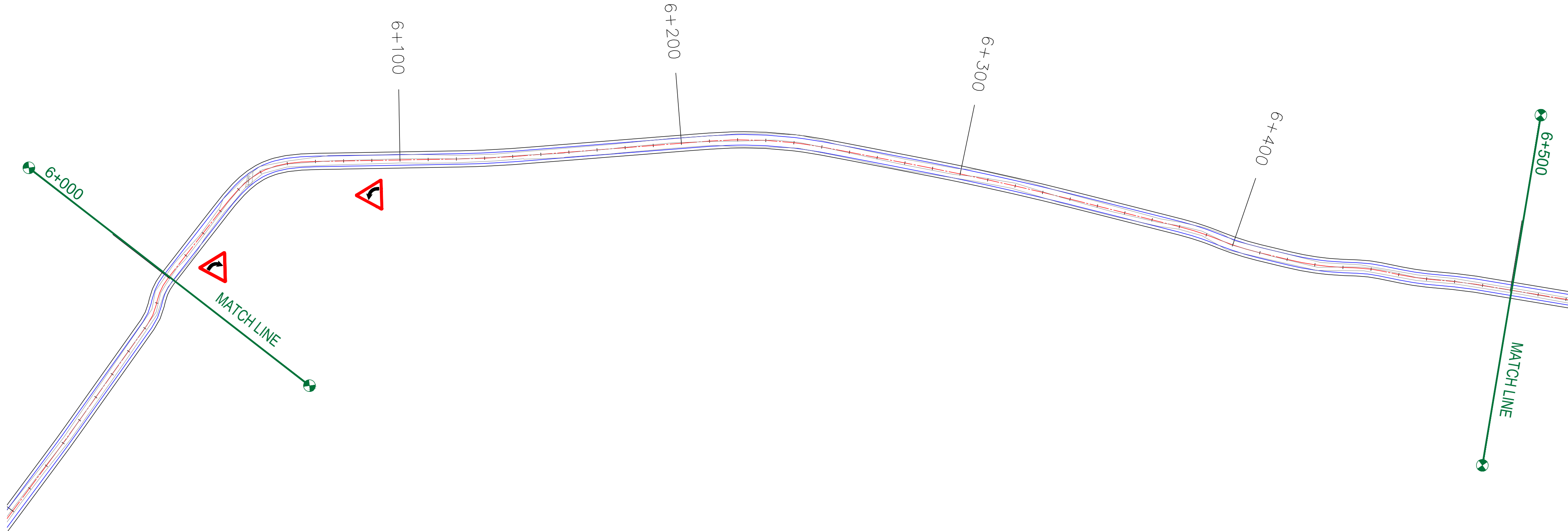


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REV.	DATE	DESCRIPTION


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DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Signage Plan (Main Road) (Ch. 5+000 to Ch. 6+000)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/SP/06
REVISION : R-1	September 2019



CLIENT : 
Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :
Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:
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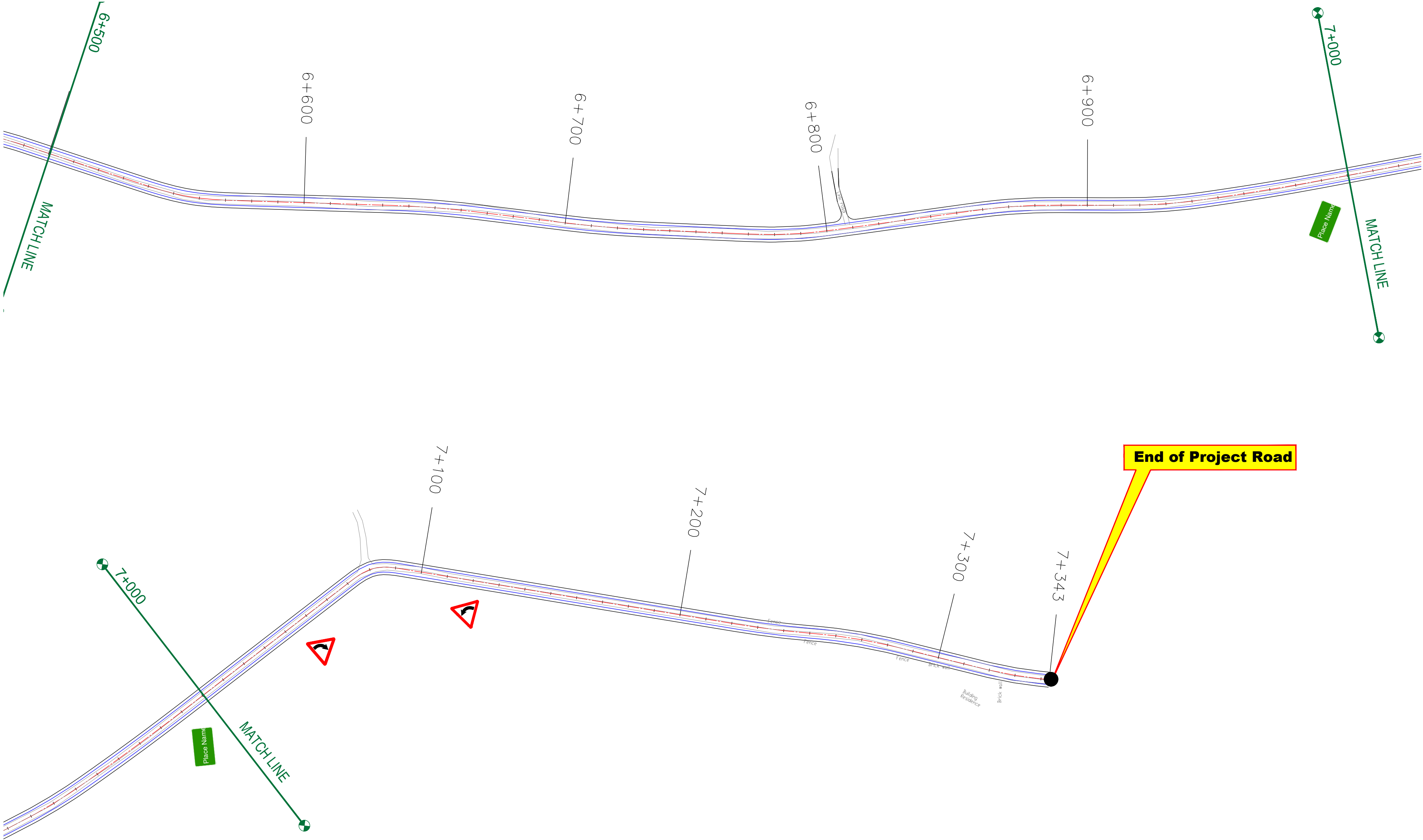
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Signage Plan (Main Road) (Ch. 6+000 to Ch. 6+500)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/SP/ 07
REVISION : R-1	September 2019

← Bijbehera

Karihama National Highway via Kitriteng →



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



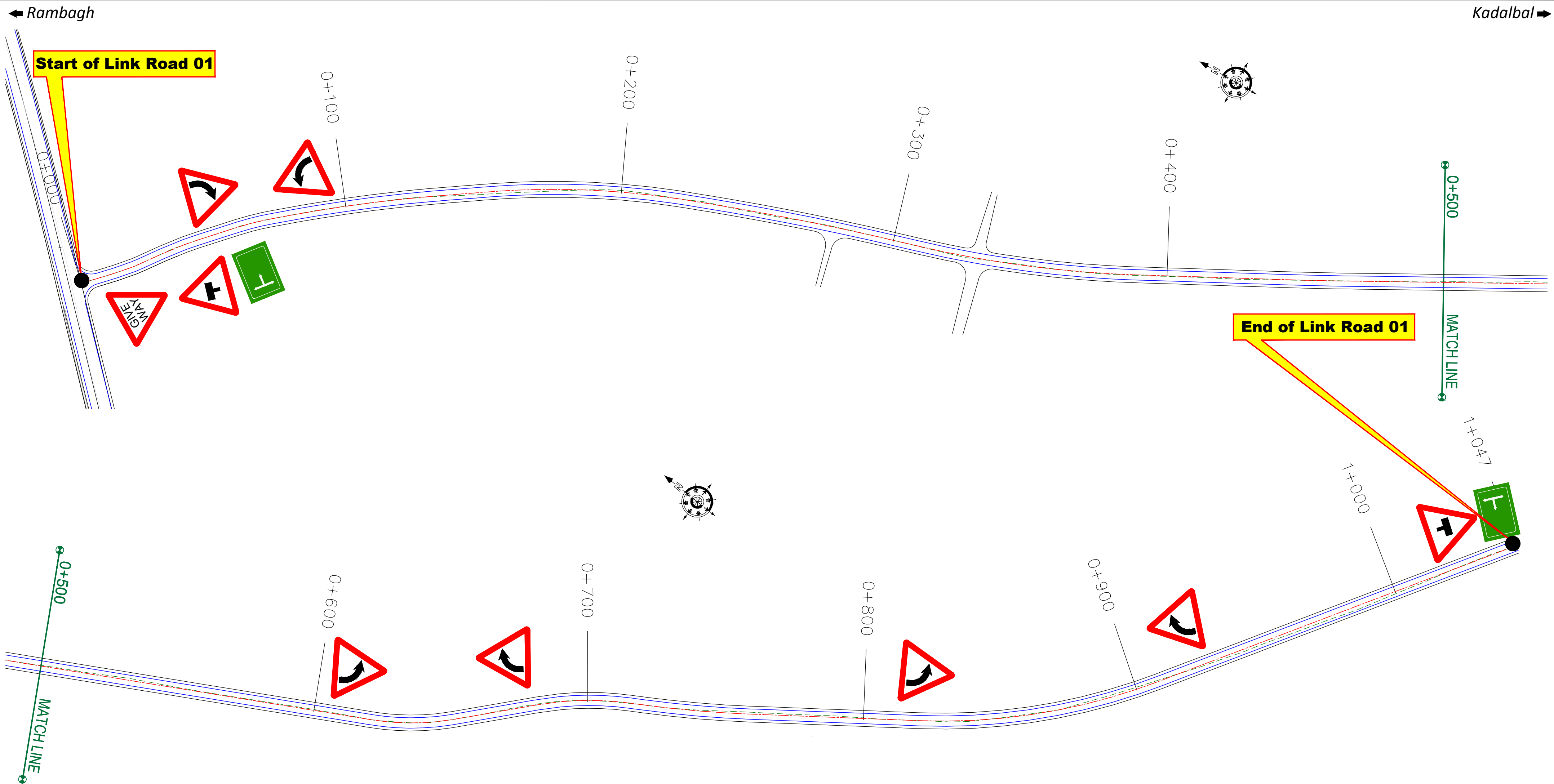
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Sector v, Salt Lake Kolkata - 700091,
West Bengal
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Signage Plan (Main Road) (Ch. 6+500 to Ch. 7+343)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/SP/08
REVISION : R-1	September 2019

≡ SIGNAGE PLAN (LINK ROAD) ≡



CLIENT :


Jhelum & Tawi
FLOOD RECOVERY PROJECT
Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road and Bridge works in Jammu and Kashmir
(Rambagh-Lasjan-Kadalbal Road)

DESIGN CONSULTANT:

 **Eptisa Servicios de Ingenieria S.L.**
Unit 1203, 12th Floor, Tower 1, PS Srijan
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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : 1:1000

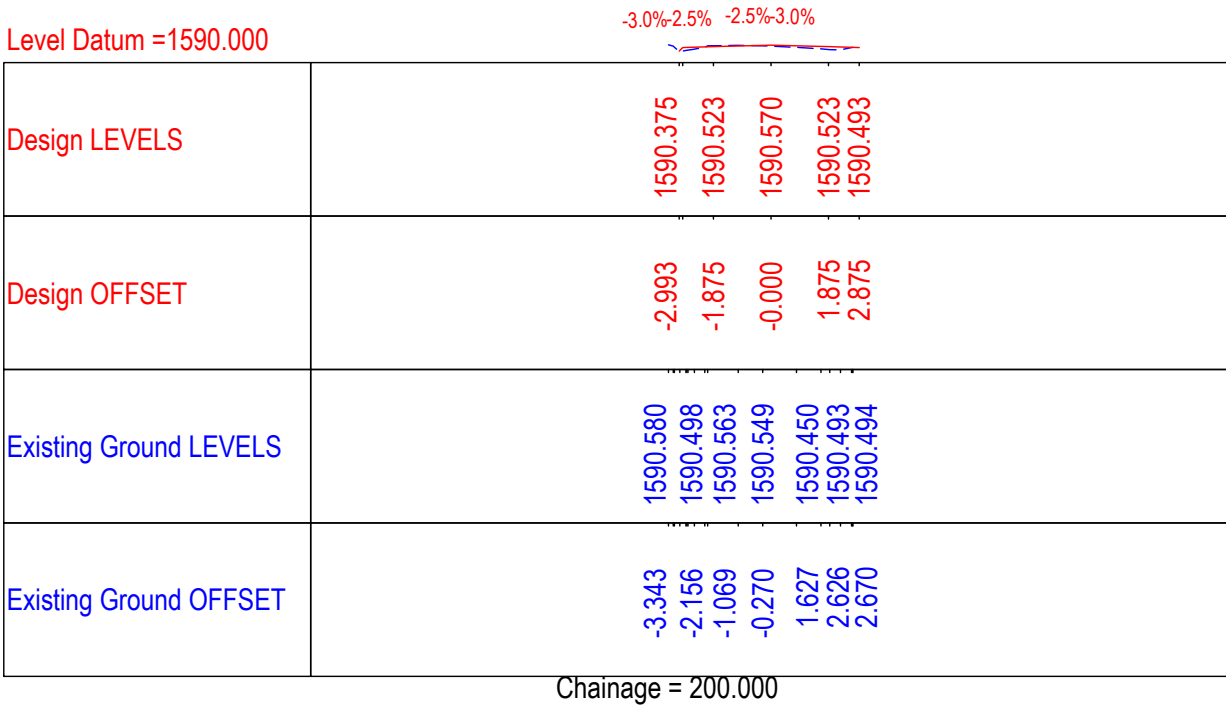
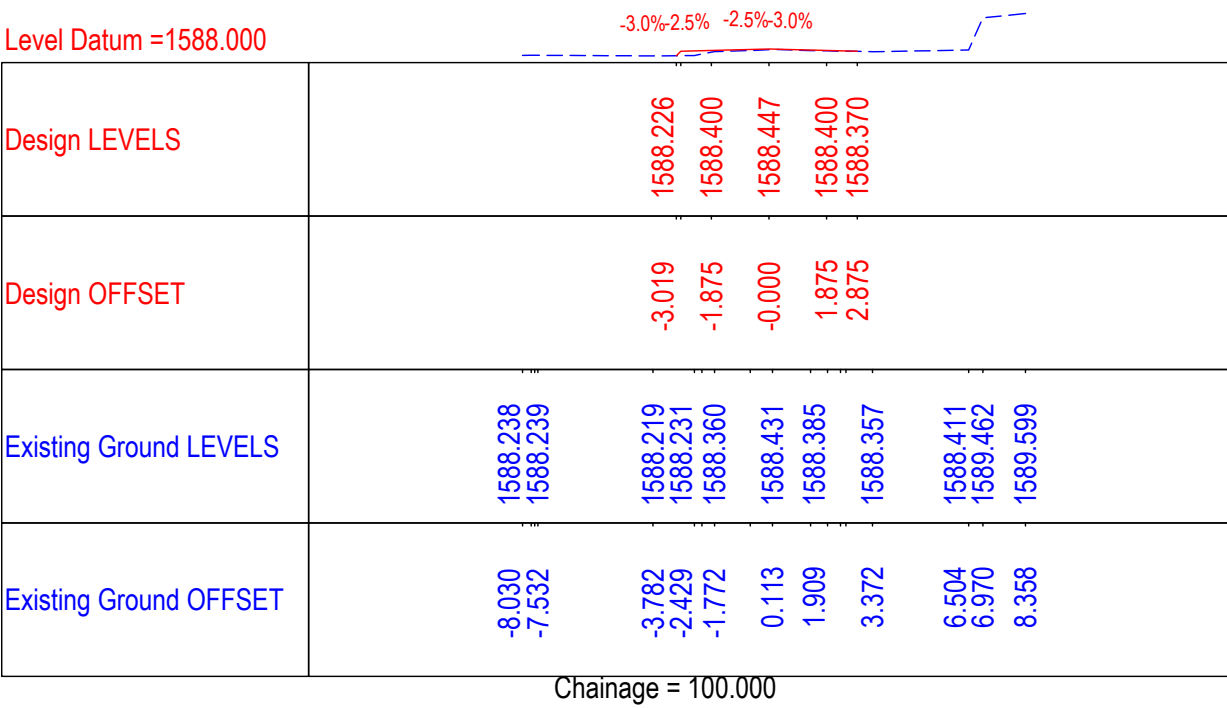
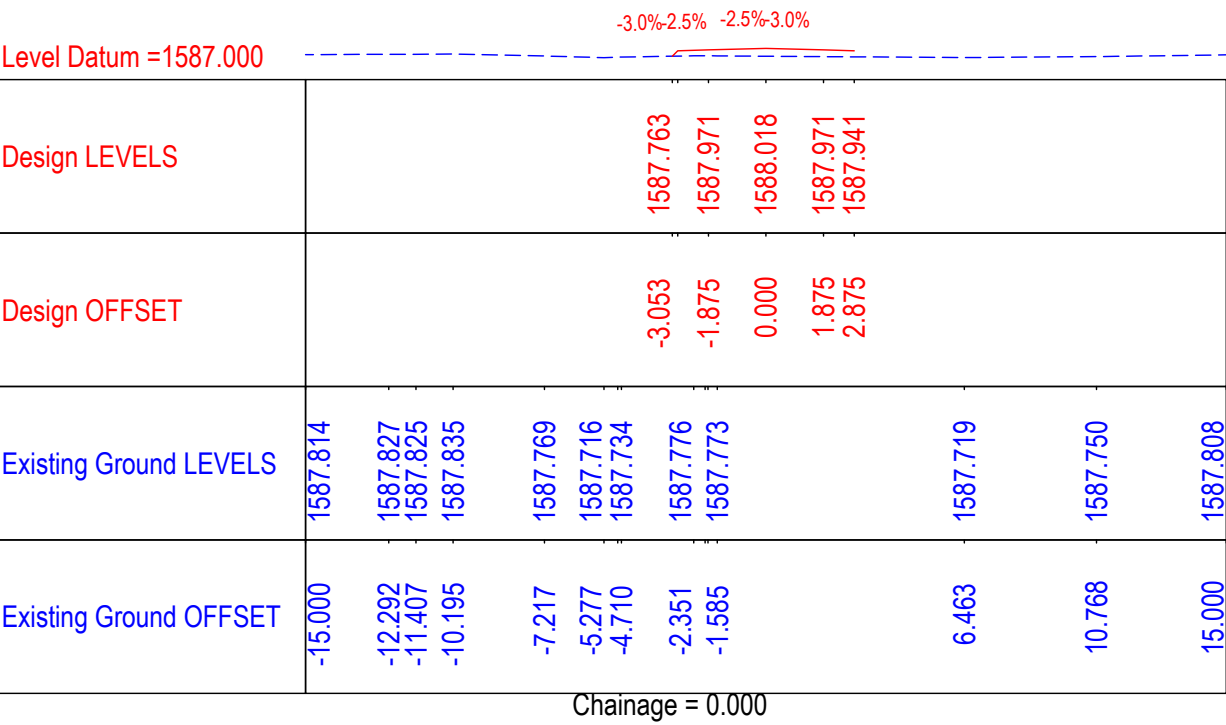
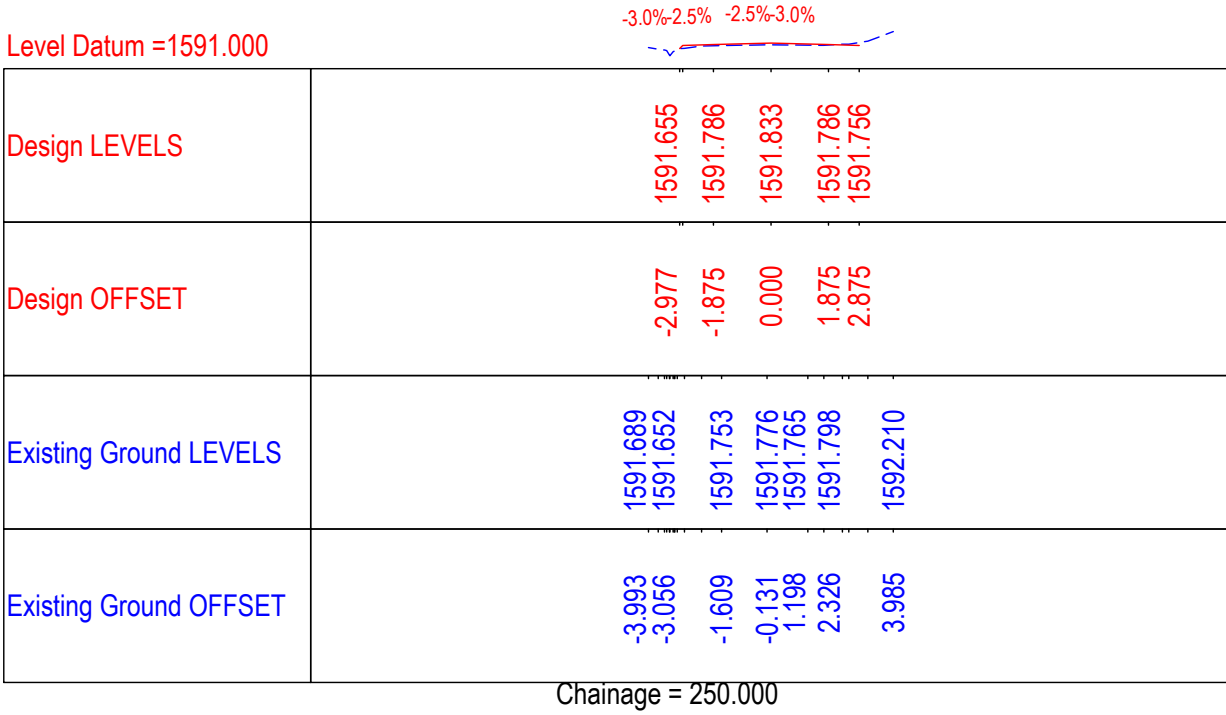
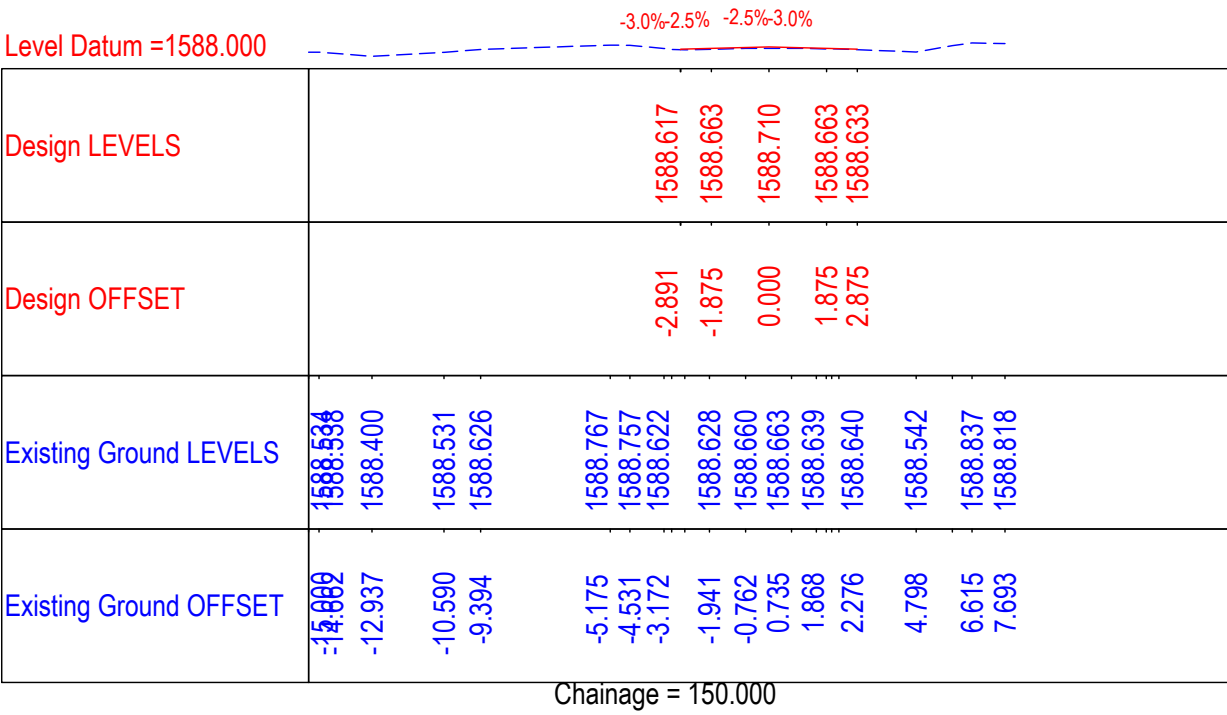
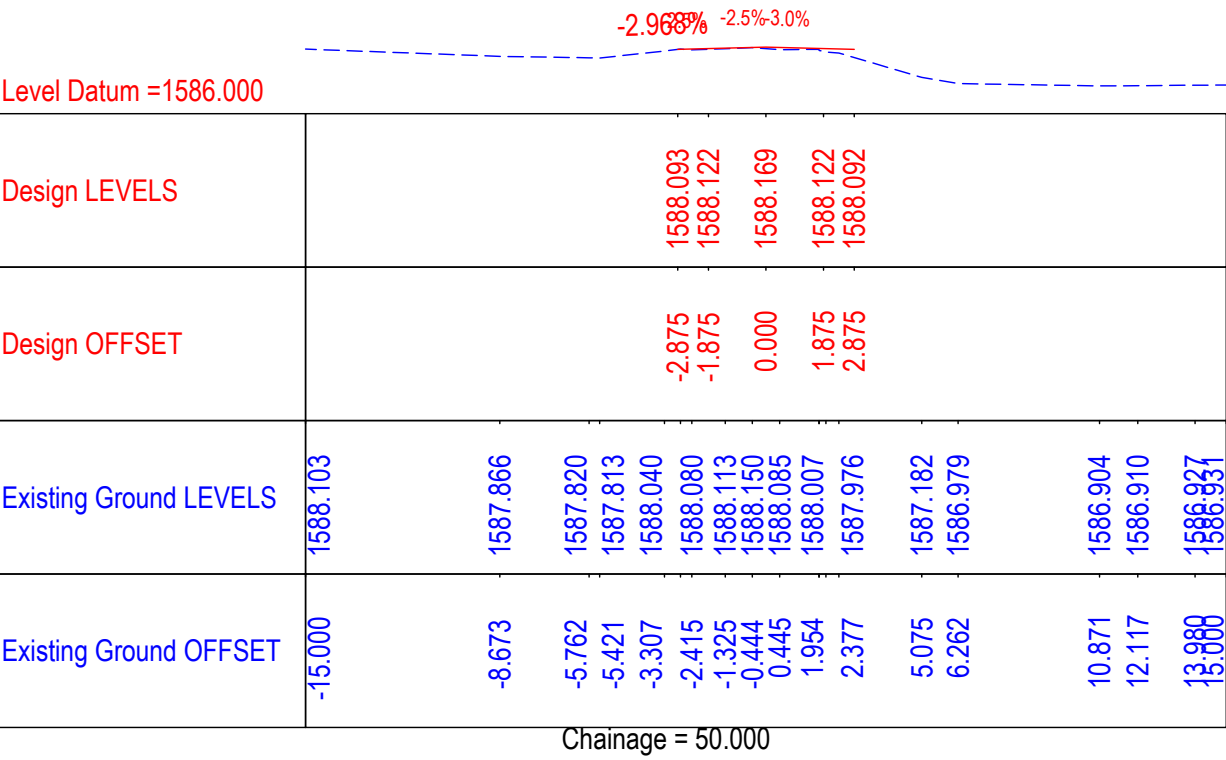
TITLE :
SIGNAGE PLAN (LINK ROAD)
(Ch. 0+000 to Ch. 1+047)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/SP/01

REVISION : R-1

August 2019

≡ DETAILED CROSS SECTION ≡



Level Datum =1592.000

-3.0%2.5% -2.5%-3.0%

Design LEVELS	1592.592 1592.461 1592.508 1592.461 1592.431
Design OFFSET	-2.875 -1.875 -0.000 1.875 2.875
Existing Ground LEVELS	1593.218 1592.469 1592.545 1592.478 1592.493 1592.478 1592.412 1592.472 1592.449
Existing Ground OFFSET	-3.347 -2.413 -1.507 -0.995 0.342 0.998 2.784 3.771 4.390

Chainage = 350.000

Level Datum =1591.000

-3.0%2.5% -2.5%-3.0%

Design LEVELS	1592.271 1592.065 1592.112 1592.065 1592.035
Design OFFSET	-2.875 -1.875 -0.000 1.875 2.875
Existing Ground LEVELS	1592.948 1592.816 1592.250 1592.092 1592.090 1592.087 1592.026 1591.793 1591.579
Existing Ground OFFSET	-4.907 -4.381 -2.817 -1.852 -1.541 0.077 1.581 3.019 3.945

Chainage = 450.000

Level Datum =1593.000

-3.0%2.5% -2.5%-3.0%

Design LEVELS	1593.349 1593.439 1593.485 1593.439 1593.409
Design OFFSET	-2.934 -1.875 0.000 1.875 2.875
Existing Ground LEVELS	1593.517 1593.409 1593.343 1593.309 1593.305 1593.432
Existing Ground OFFSET	-4.756 -3.204 -1.746 -0.751 0.700 1.772

Chainage = 550.000

Level Datum =1591.000

-3.0%2.5% -2.5%-3.0%

Design LEVELS	1591.995 1592.240 1592.287 1592.240 1592.210
Design OFFSET	-3.090 -1.875 0.000 1.875 2.875
Existing Ground LEVELS	1592.213 1591.990 1592.038 1592.102 1592.110 1592.159 1592.240
Existing Ground OFFSET	-4.050 -3.155 -2.679 -0.893 0.076 1.966 2.495

Chainage = 300.000

Level Datum =1592.000

-3.0%2.5% -2.5%-3.0%

Design LEVELS	1592.715 1592.421 1592.468 1592.421 1592.391
Design OFFSET	-2.875 -1.875 -0.000 1.875 2.875
Existing Ground LEVELS	1592.715 1592.445 1592.416 1592.376 1592.280 1592.080 1592.067
Existing Ground OFFSET	-2.536 -1.317 0.235 1.013 2.472 3.636 3.689

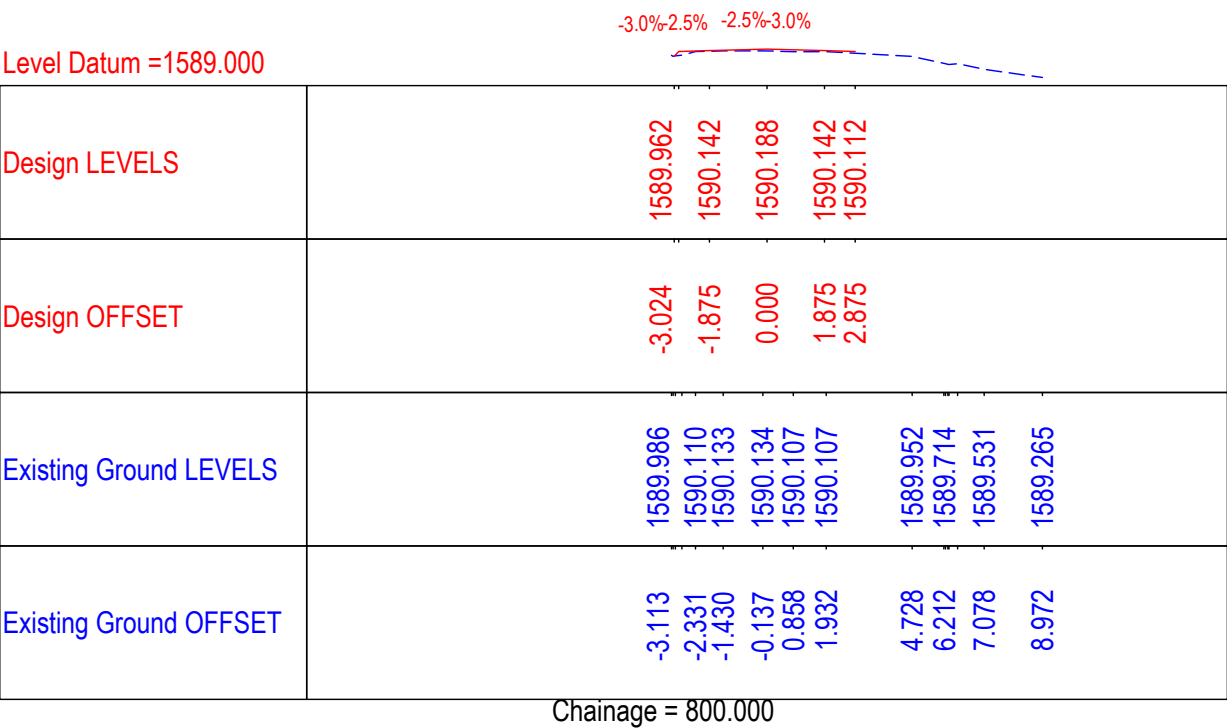
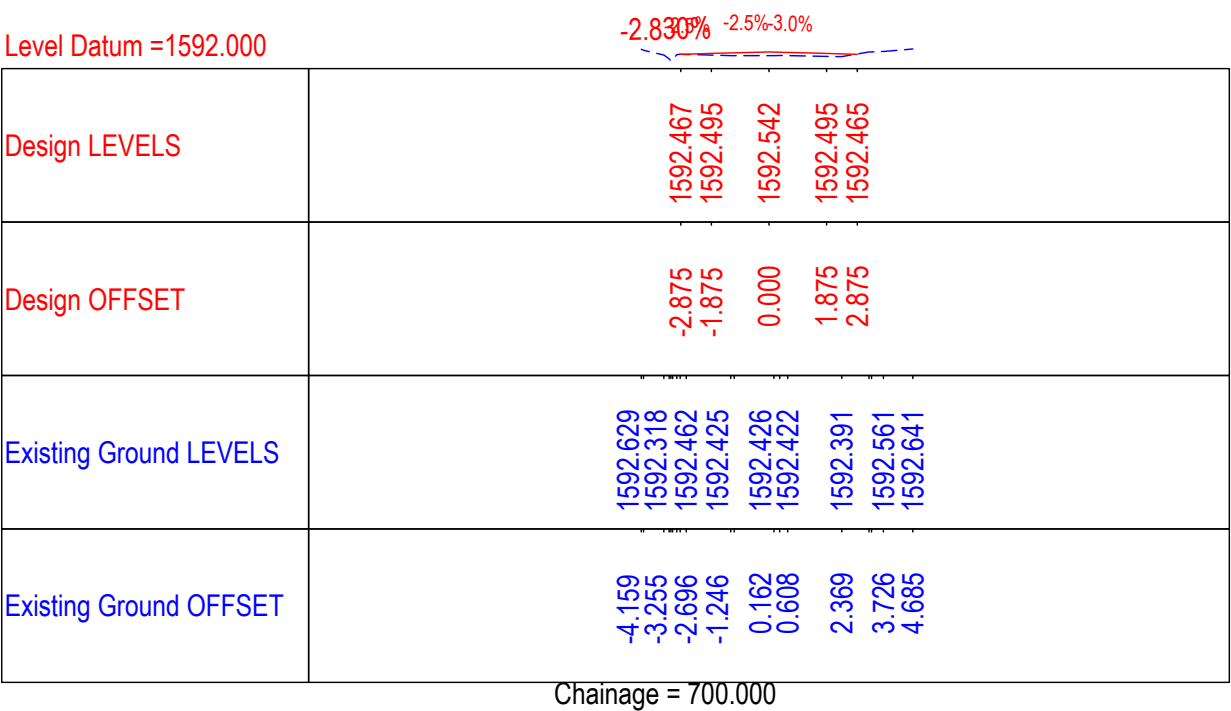
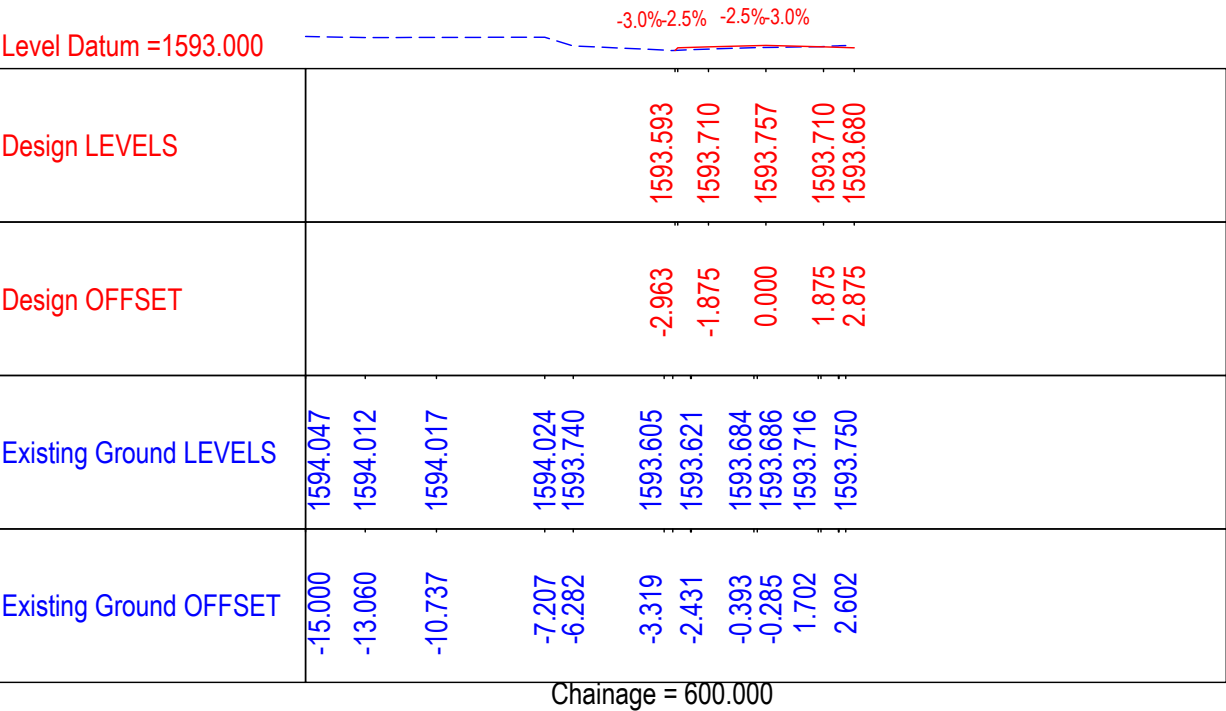
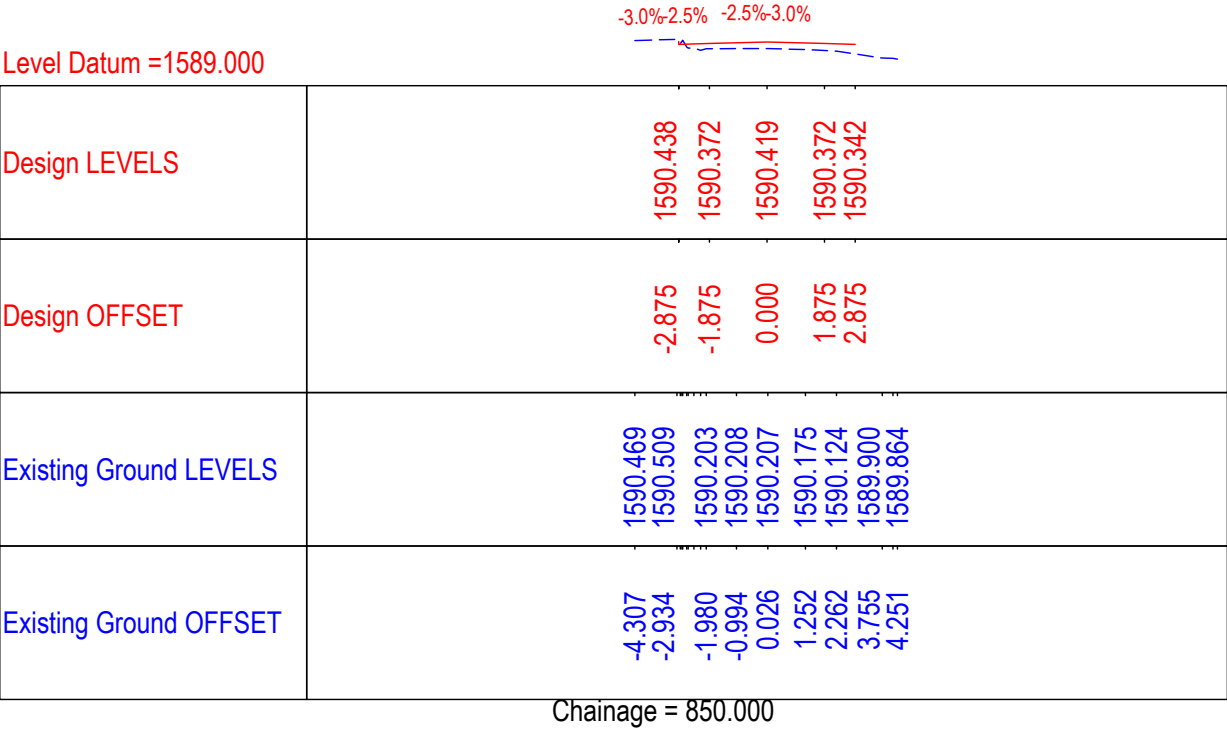
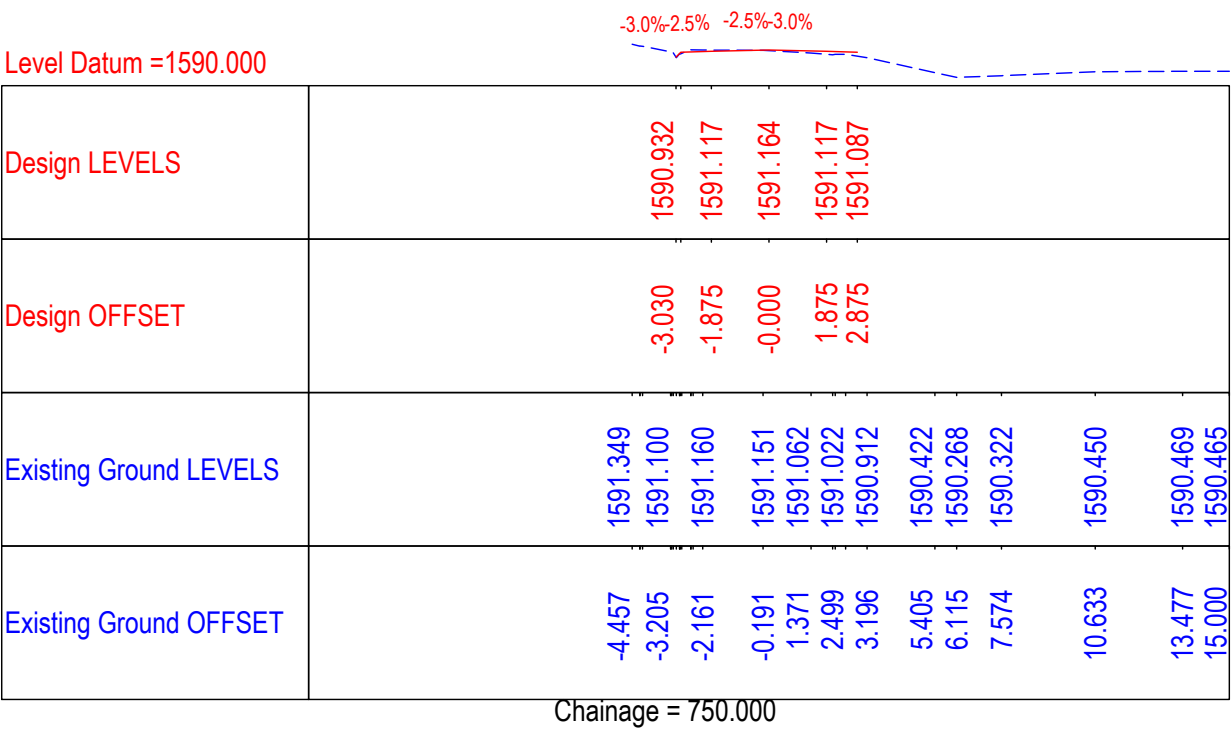
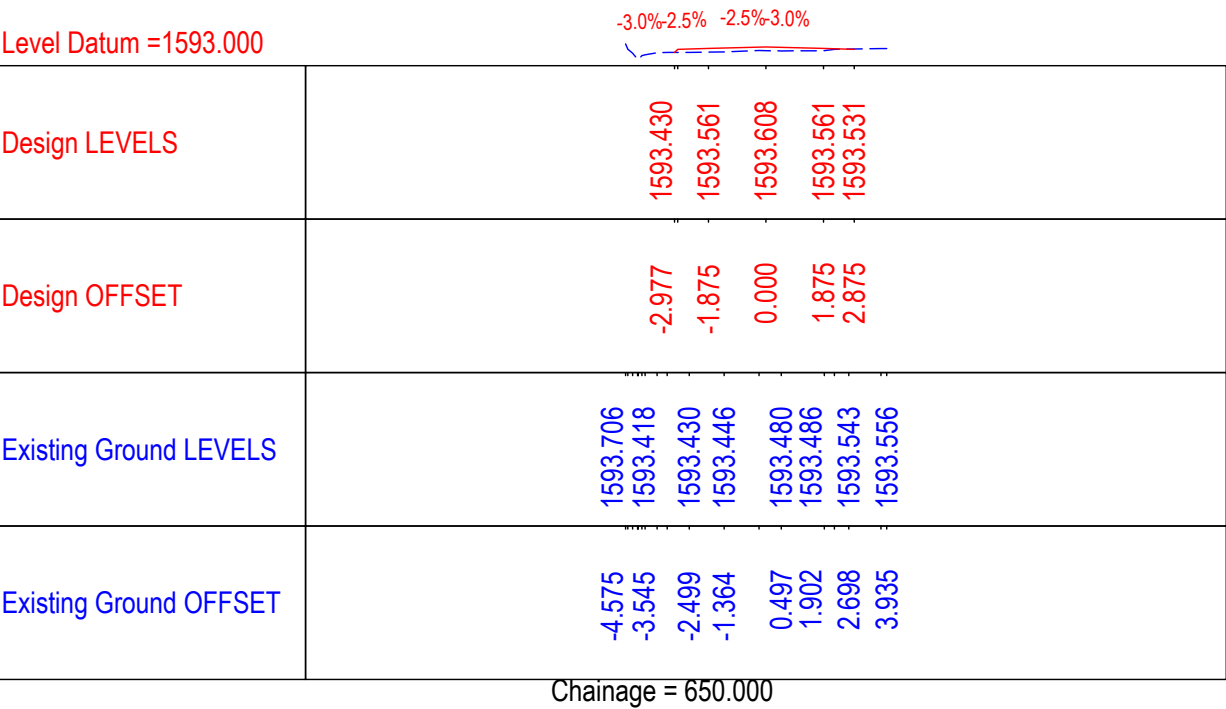
Chainage = 400.000

Level Datum =1592.000

-3.0%2.5% -2.5%-3.0%

Design LEVELS	1592.673 1592.678 1592.725 1592.678 1592.648
Design OFFSET	-2.875 -1.875 -0.000 1.875 2.875
Existing Ground LEVELS	1593.093 1593.098 1592.670 1592.662 1592.629 1592.547 1592.556 1592.556 1592.350
Existing Ground OFFSET	-4.726 -4.623 -2.752 -1.453 0.023 1.528 2.559 2.642 4.794

Chainage = 500.000



Level Datum =1590.000

-3.0%-2.5% -2.5%-3.0%

Design LEVELS	1590.268	1590.328	1590.375	1590.328	1590.298
Design OFFSET	-2.905	-1.875	-0.000	1.875	2.875
Existing Ground LEVELS	1590.268	1590.327	1590.365	1590.387	1590.518
Existing Ground OFFSET	-1.636	-0.514	1.399	2.989	5.601

Chainage = 950.000

Level Datum =1591.000

-3.0%-2.5% -2.5%-3.0%

Design LEVELS	1591.308	1591.390	1591.437	1591.390	1591.360
Design OFFSET	-2.927	-1.875	-0.000	1.875	2.875
Existing Ground LEVELS	1591.426	1591.302	1591.357	1591.367	1591.339
Existing Ground OFFSET	-3.962	-3.165	-0.927	0.327	2.586

Chainage = 1050.000

Level Datum =1588.000

-3.0%-2.5% -2.5%-3.0%

Design LEVELS	1589.354	1589.253	1589.300	1589.253	1589.223
Design OFFSET	-2.875	-1.875	-0.000	1.875	2.875
Existing Ground LEVELS	1589.093	1589.024	1589.341	1589.431	1589.411
Existing Ground OFFSET	-15.000	-12.436	-11.543	-10.139	-4.597

Chainage = 1150.000

Level Datum =1590.000

-3.0%-2.5% -2.5%-3.0%

Design LEVELS	1590.739	1590.627	1590.674	1590.627	1590.597
Design OFFSET	-2.875	-1.875	0.000	1.875	2.875
Existing Ground LEVELS	1590.790	1590.591	1590.643	1590.639	1590.623
Existing Ground OFFSET	-3.207	-1.840	-0.097	0.648	2.006

Chainage = 900.000

Level Datum =1590.000

-3.0%-2.5% -2.5%-3.0%

Design LEVELS	1590.540	1590.517	1590.564	1590.517	1590.487
Design OFFSET	-2.875	-1.875	0.000	1.875	2.875
Existing Ground LEVELS	1590.595	1590.596	1590.496	1590.496	1590.479
Existing Ground OFFSET	-4.367	-4.303	-1.765	-0.550	0.763

Chainage = 1000.000

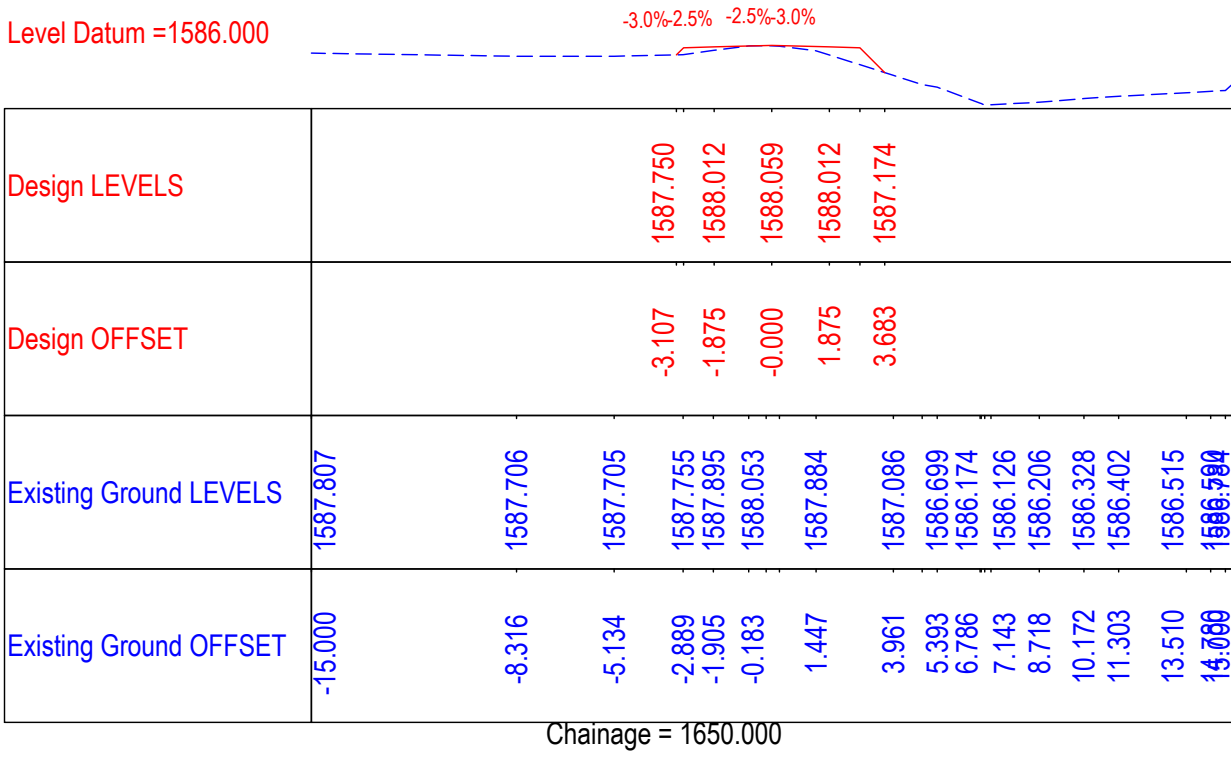
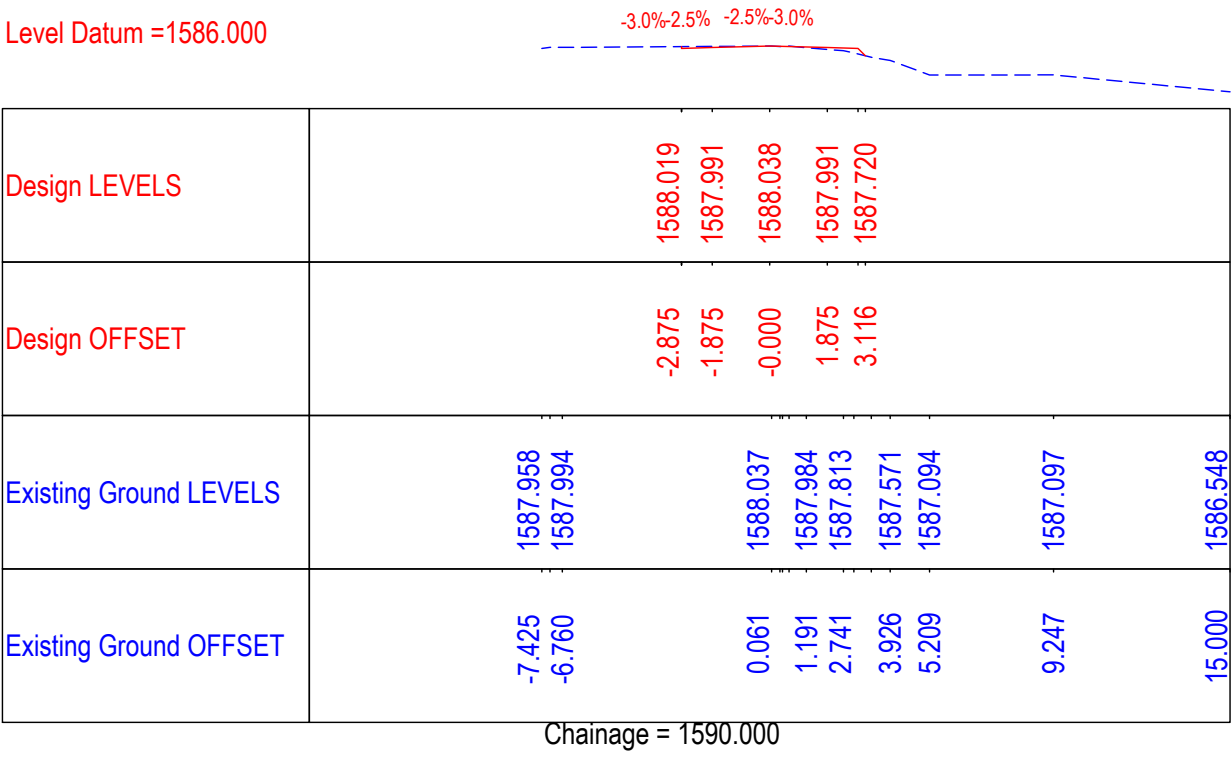
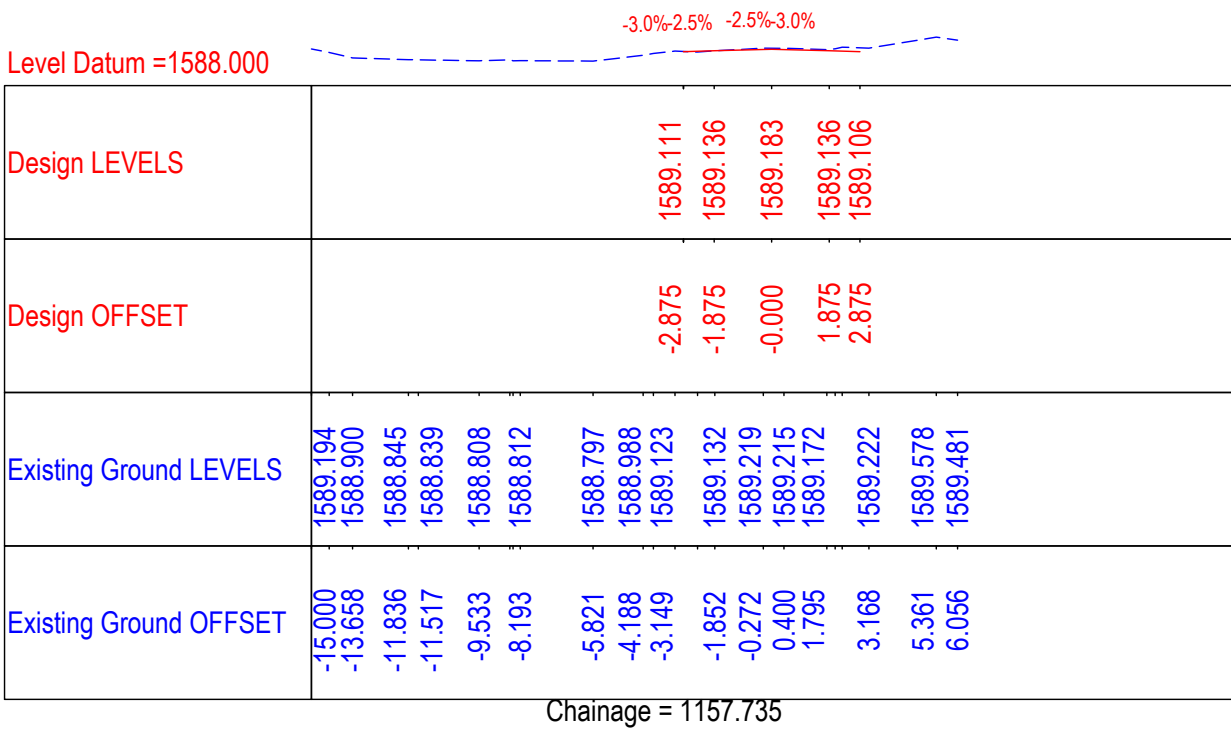
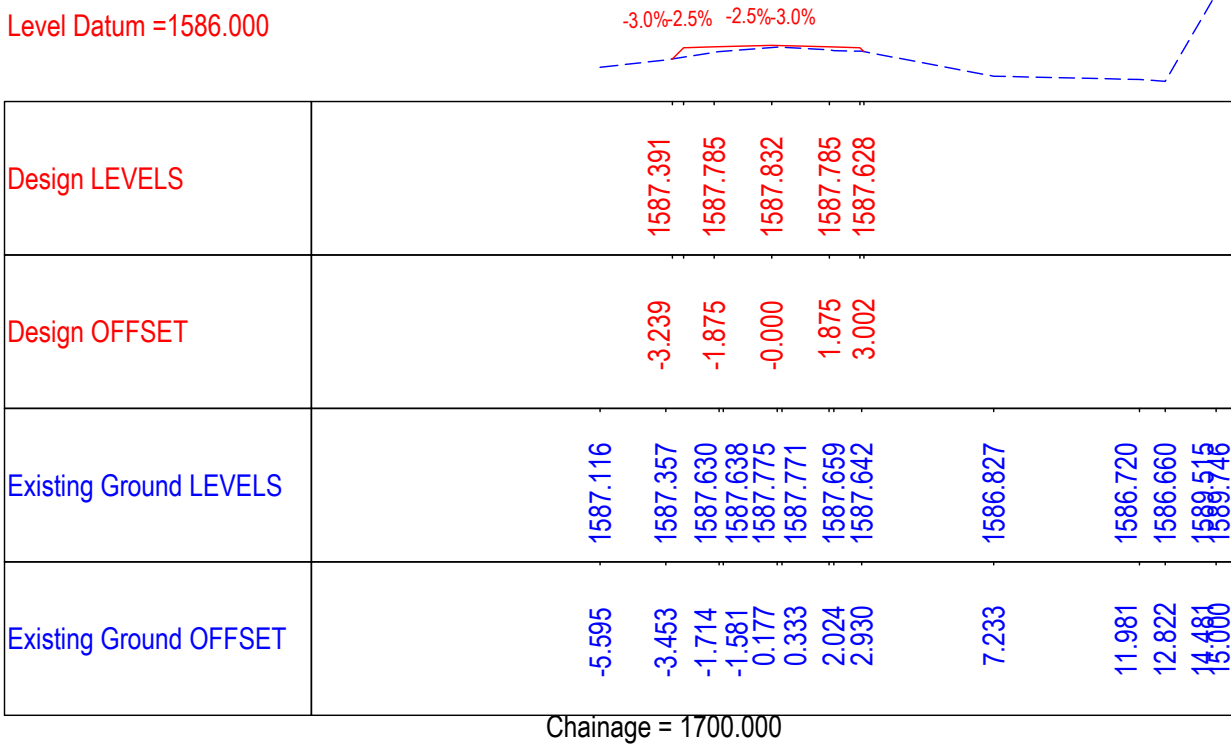
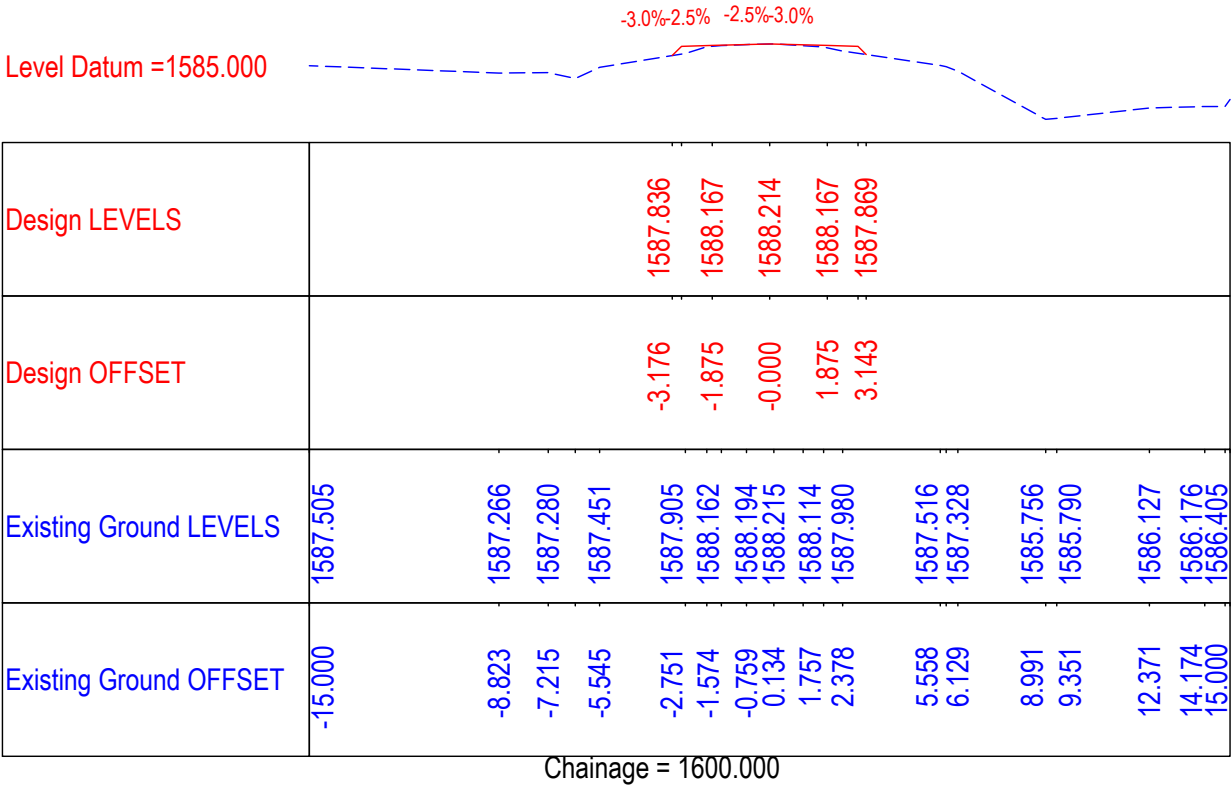
Level Datum =1590.000

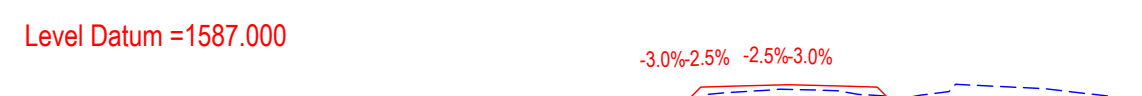
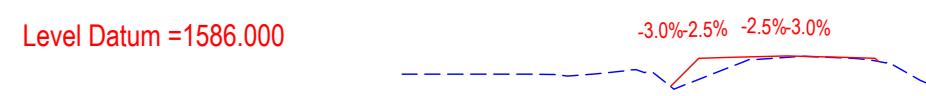
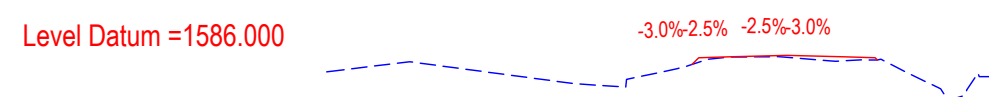
-3.0%-2.5% -2.5%-3.0%

Design LEVELS	1590.222	1590.252	1590.298	1590.252	1590.222
Design OFFSET	-2.875	-1.875	-0.000	1.875	2.875
Existing Ground LEVELS	1590.173	1590.209	1590.227	1590.251	1590.221
Existing Ground OFFSET	-4.497	-3.734	-2.471	-0.512	0.992

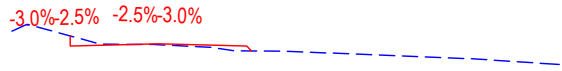
Chainage = 1100.000

Out of Scope
From km 1+157 to km 1+590





Level Datum =1587.000



Design LEVELS	1588.440	1588.138	1588.185	1588.138	1587.951		
Design OFFSET	-2.875	-1.875	0.000	1.875	3.032		
Existing Ground LEVELS	1588.596	1588.804	1588.174	1588.161	1588.090	1587.957	1587.940
Existing Ground OFFSET	-4.774	-4.213	-1.895	-0.167	1.278	2.471	4.183

Chainage = 2100.000

Level Datum =1588.000



Design LEVELS	1588.490	1588.436	1588.483	1588.436	1588.316		
Design OFFSET	-2.875	-1.875	0.000	1.875	2.965		
Existing Ground LEVELS	1588.352	1588.345	1588.446	1588.682	1588.512	1588.396	1588.442
Existing Ground OFFSET	-15.000	-8.027	-7.721	-6.315	-3.071	-2.058	-0.738

Chainage = 2200.000

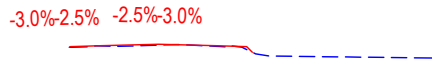
Level Datum =1588.000



Design LEVELS	1588.177	1589.208	1589.238	1589.285	1589.238	1588.906	
Design OFFSET	-3.906	-2.875	-1.875	0.000	1.875	3.176	
Existing Ground LEVELS	1588.260	1588.289	1588.232	1588.255	1588.294	1588.177	1588.228
Existing Ground OFFSET	-13.641	-11.986	-10.078	-7.903	-6.528	-4.075	-2.973

Chainage = 2300.000

Level Datum =1587.000



Design LEVELS	1587.970	1588.024	1588.070	1588.024	1587.809		
Design OFFSET	-2.898	-1.875	0.000	1.875	3.060		
Existing Ground LEVELS	1587.970	1588.004	1588.013	1588.063	1587.978	1587.688	1587.623
Existing Ground OFFSET	-2.908	-1.365	-0.881	0.602	2.348	3.608	8.923

Chainage = 2050.000

Level Datum =1587.000



Design LEVELS	1588.995	1588.300	1588.346	1588.300	1588.222		
Design OFFSET	-2.876	-1.875	0.000	1.875	2.923		
Existing Ground LEVELS	1587.919	1588.709	1588.768	1588.384	1588.333	1588.310	1589.341
Existing Ground OFFSET	-15.000	-8.883	-8.359	-6.720	-6.026	-4.828	-3.451

Chainage = 2150.000

Level Datum =1587.000



Design LEVELS	1587.864	1588.546	1588.576	1588.623	1588.576	1588.498	
Design OFFSET	-3.557	-2.875	-1.875	0.000	1.875	2.923	
Existing Ground LEVELS	1587.865	1587.864	1588.497	1588.532	1588.538	1588.510	1588.505
Existing Ground OFFSET	-4.004	-3.350	-2.135	-0.772	0.369	1.537	2.892

Chainage = 2250.000

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:

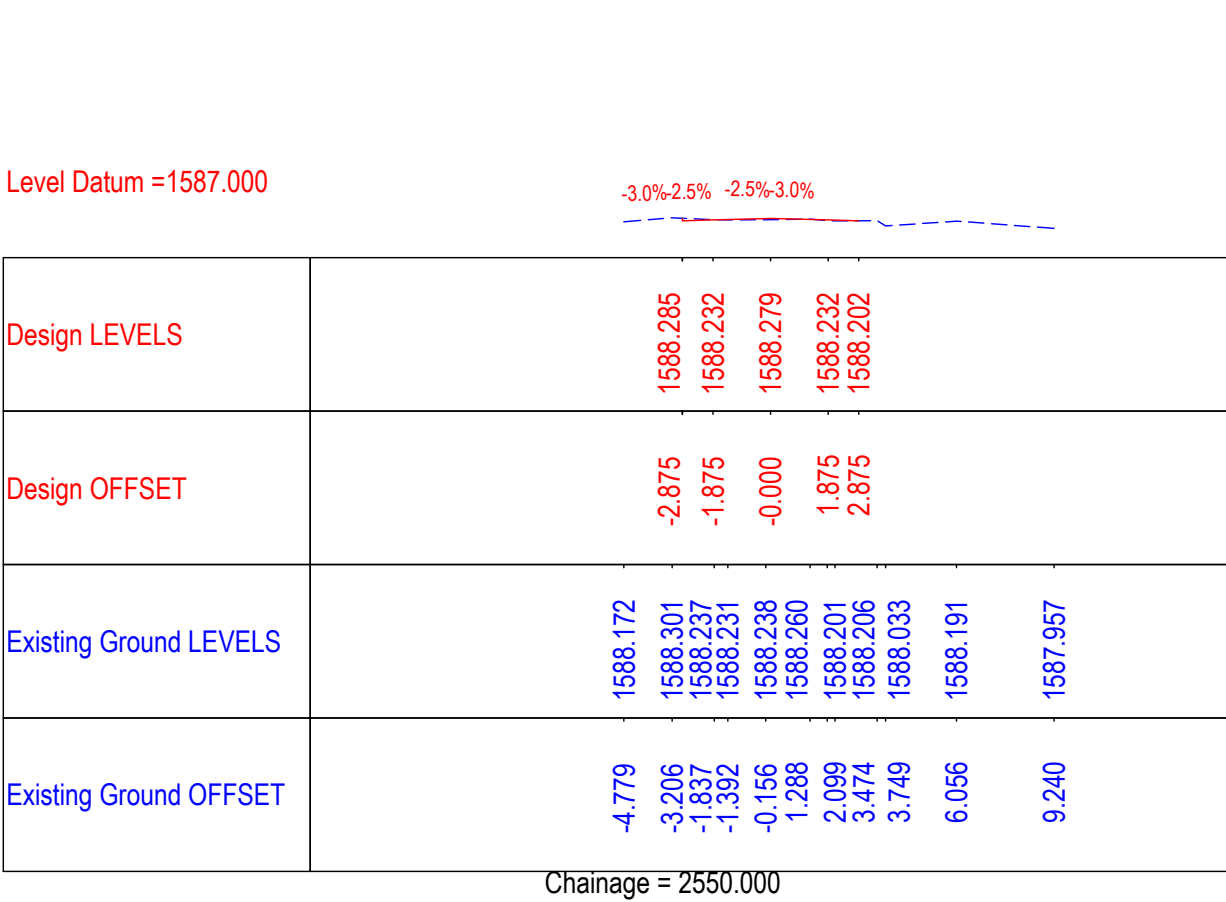
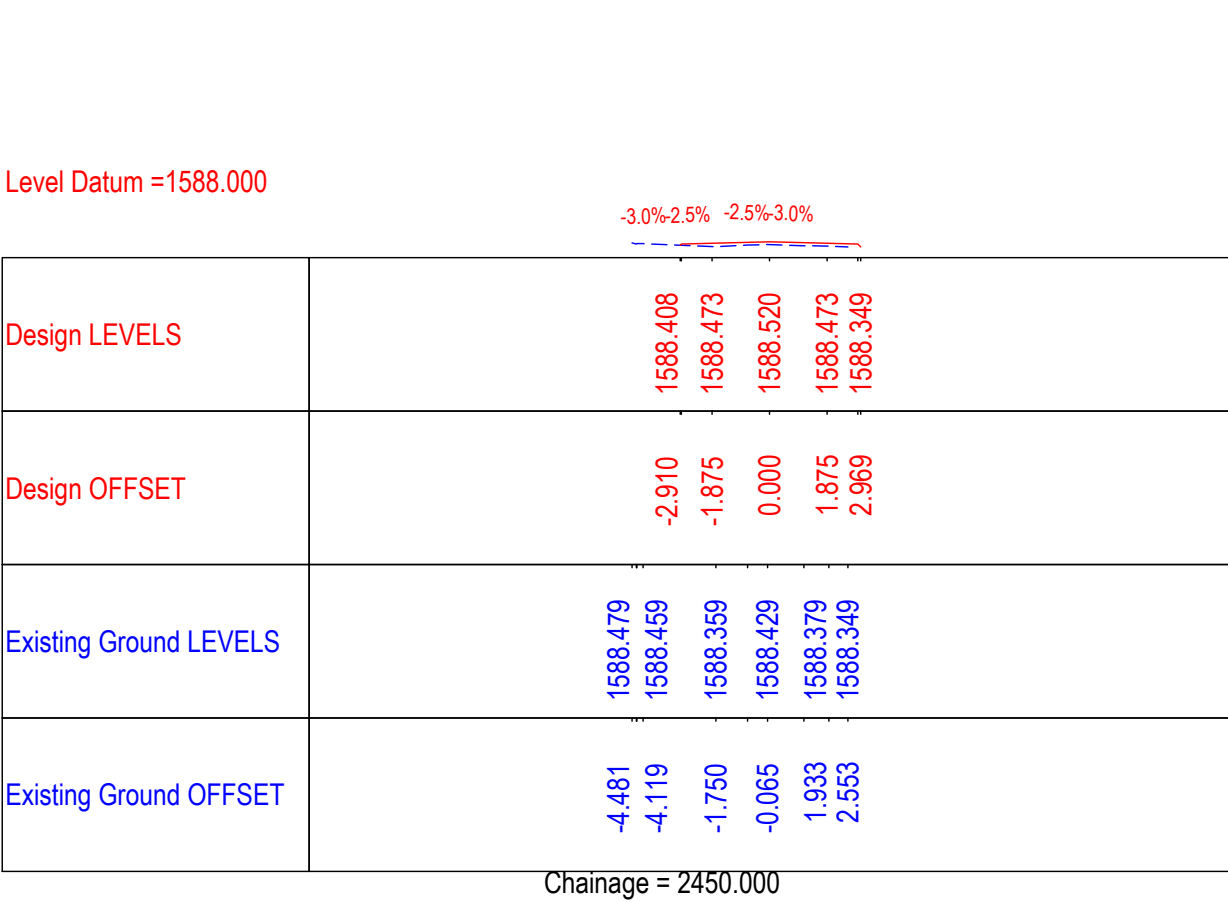
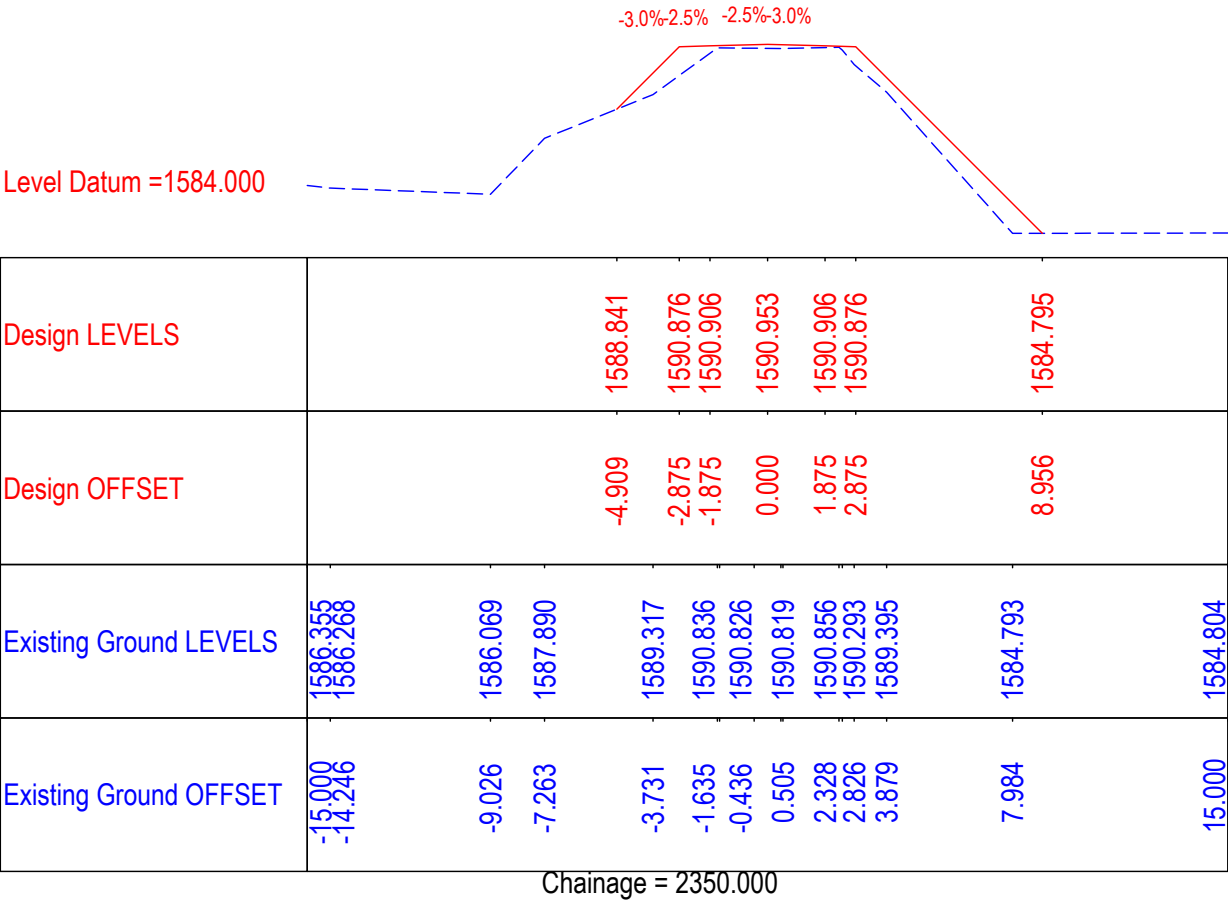
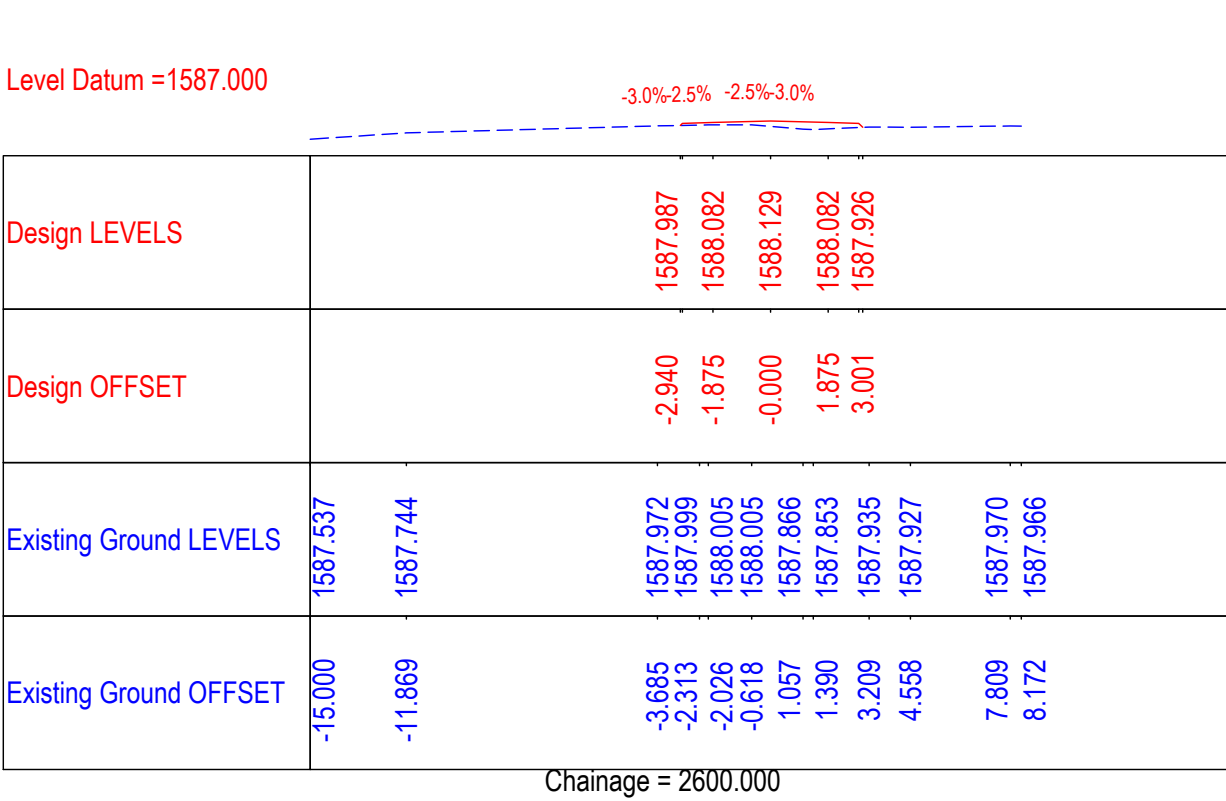
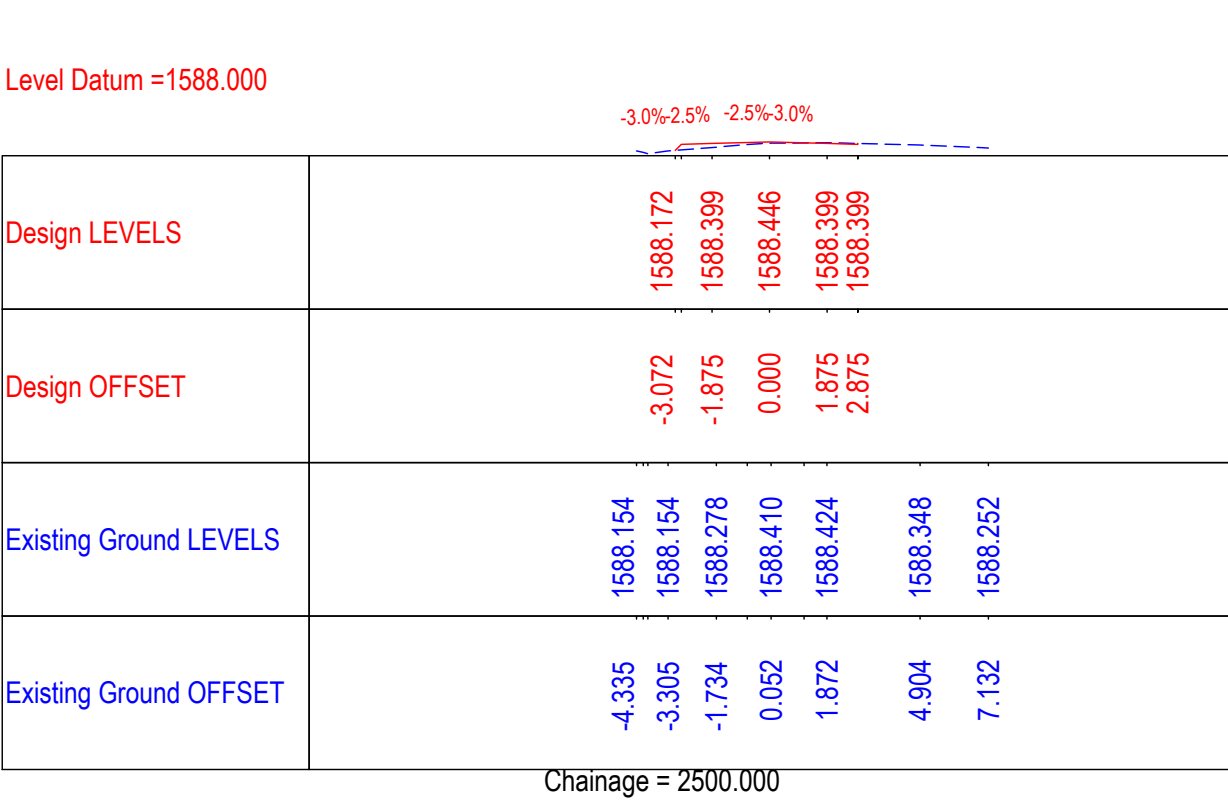
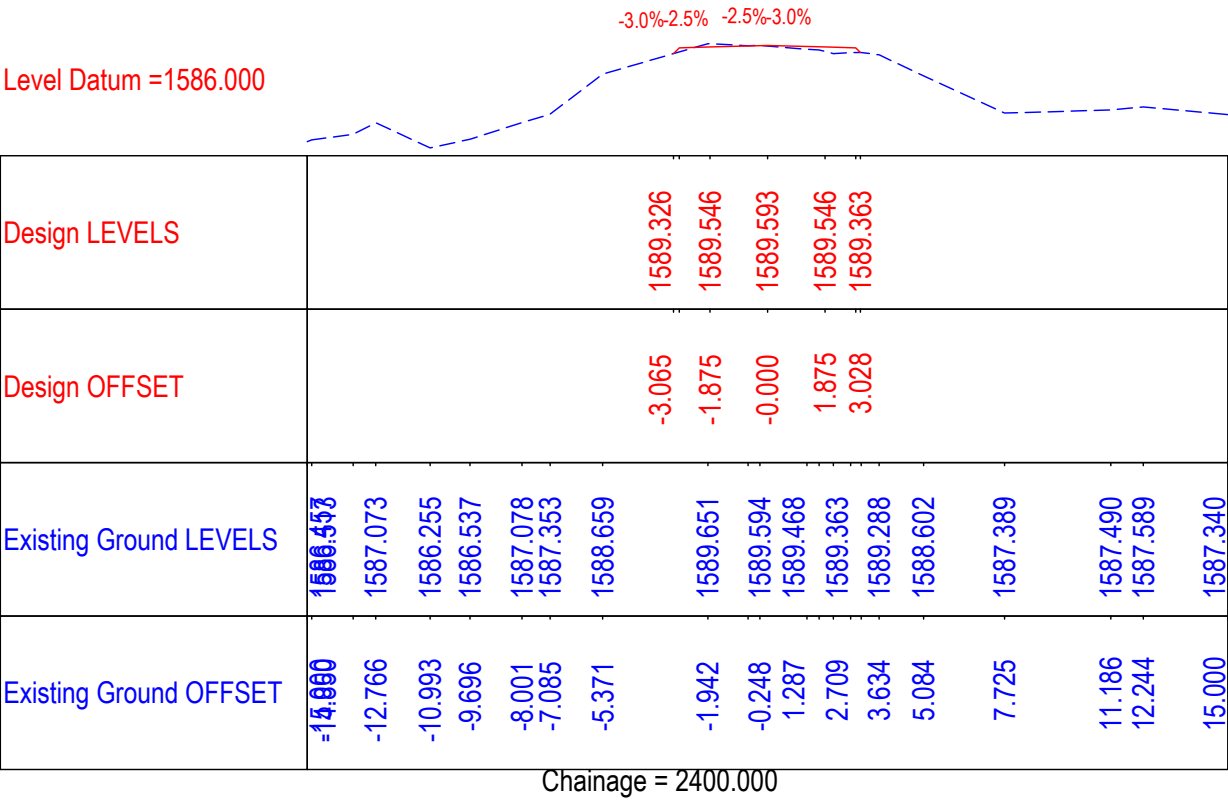


Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE	1 : 250

TITLE :	Detailed Cross Section (Main Line) (Ch.2+050 to Ch.2+300)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/DCS/07
REVISION : R-1	September 2019



Existing Ground LEVELS	-11.325 -5.295 -5.266 -1.974 -1.098 -0.035 1.765	-1587.227 1587.212 1587.211 1587.806 1587.834 1587.869 1587.785
Design OFFSET		-3.130 -1.875 -0.000 1.875 3.002
Design LEVELS		1587.597 1587.883 1587.929 1587.883 1587.725

Existing Ground OFFSET	-9.835 -9.609	-5.095 -4.482	-1.678 -1.021	0.195	2.195	4.342 4.885	12.104 12.416
Existing Ground LEVELS	1587.349 1587.354	1587.227 1587.304	1588.138 1588.153	1588.196	1588.116	1587.369 1587.266	1587.392 1587.397
Design OFFSET			-3.372 -2.875 -1.875	0.000	1.875	3.261	
Design LEVELS			1587.634 1588.131 1588.161	1588.208	1588.161	1587.745	

Existing Ground OFFSET	-10.873	1588.055	1588.302
	-10.072	1587.903	1588.475
	-7.611	1587.966	1588.521
	-5.965	1588.157	1588.475
	-4.184	1587.971	1588.521
	-3.200	1588.277	1588.475
	-1.835	1588.463	1588.521
	-0.180	1588.519	1588.475
	0.507	1588.520	1588.521
	2.080	1588.480	1588.475
	2.788	1588.238	1588.147
	4.696	1587.784	1588.147
	5.763	1587.889	1588.147
	6.859	1588.098	1588.147
	8.087	1588.143	1588.147
	10.028	1588.127	1588.147
	11.740	1588.077	1588.147
	14.816	1588.004	1588.147
Existing Ground LEVELS			
Design OFFSET			
Design LEVELS			

Existing Ground OFFSET	-10.843 -9.946	-6.128 -5.806	-1.662	0.248	2.124	5.705 6.343
Existing Ground LEVELS	1587.230 1587.249	1587.305 1587.369	1587.771	1587.882	1587.817	1587.311 1587.231
Design OFFSET			-3.206	-1.875	-0.000	1.875 3.156
Design LEVELS			1587.621	1587.982	1588.029	1587.982 1587.671

Existing Ground OFFSET	-10.064 -9.810 -5.468 -5.354 -1.944 -1.174 -0.216 0.861 1.762	1587.210 1587.207 1587.151 1587.165 1587.973 1588.004 1588.097 1587.988 1587.956	Design OFFSET	-3.247 -1.875 0.000 1.875 3.299	Design LEVELS	1587.664 1588.066 1588.112 1588.066 1587.612
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ep^tisa

REV.	DATE	DESCRIPTION

September 2019

Level Datum =1587.000

Design LEVELS	1587.826 1588.103 1588.150 1588.103 1587.900
Design OFFSET	-3.122 -1.875 0.000 1.875 3.048
Existing Ground LEVELS	1587.377 1587.297 1587.571 1587.558 1587.830 1588.076 1588.123 1588.112 1588.096 1587.755 1587.348 1587.227
Existing Ground OFFSET	-9.327 -7.709 -6.136 -5.996 -3.073 -1.411 0.046 0.449 1.988 3.850 6.099 6.879

Chainage = 3000.000

Level Datum =1587.000

Design LEVELS	1587.450 1587.799 1587.846 1587.799 1587.731
Design OFFSET	-3.194 -1.875 0.000 1.875 2.913
Existing Ground LEVELS	1587.097 1587.090 1587.110 1587.121 1587.704 1587.756 1587.824 1587.824 1587.464 1587.323 1587.420
Existing Ground OFFSET	-9.743 -9.250 -5.416 -5.310 -1.562 -0.874 0.932 2.123 5.184 6.547 8.080

Chainage = 3100.000

Level Datum =1587.000

Design LEVELS	1587.549 1588.228 1588.258 1588.305 1588.258 1588.063
Design OFFSET	-3.554 -2.875 -1.875 -0.000 1.875 3.040
Existing Ground LEVELS	1587.232 1587.225 1587.215 1587.608 1588.179 1588.188 1588.318 1588.245 1587.494 1587.358 1587.353
Existing Ground OFFSET	-10.208 -6.998 -6.408 -3.049 -1.484 -0.872 0.194 1.918 6.549 7.502 11.531

Chainage = 3200.000

Level Datum =1584.000

Design LEVELS	1588.068 1587.982 1588.028 1587.982 1587.731
Design OFFSET	-2.875 -1.875 0.000 1.875 3.095
Existing Ground LEVELS	1588.088 1588.082 1588.133 1588.076 1588.080 1587.250 1587.155 1585.788 1584.833 1584.862 1584.665 1584.667
Existing Ground OFFSET	-1.474 -1.129 0.417 2.019 2.341 4.136 4.811 7.481 8.861 9.182 13.417 13.970

Chainage = 2950.000

Level Datum =1587.000

Design LEVELS	1587.530 1587.860 1587.906 1587.860 1587.729
Design OFFSET	-3.175 -1.875 -0.000 1.875 2.976
Existing Ground LEVELS	1587.086 1587.117 1587.152 1587.787 1587.914 1587.895 1587.874 1587.190 1587.164 1587.224
Existing Ground OFFSET	-8.972 -5.973 -5.405 -1.657 0.192 0.810 2.266 5.605 5.992 9.968

Chainage = 3050.000

Level Datum =1587.000

Design LEVELS	1587.715 1587.891 1587.938 1587.891 1587.551
Design OFFSET	-3.021 -1.875 -0.000 1.875 3.185
Existing Ground LEVELS	1587.371 1587.433 1587.590 1587.778 1587.822 1587.897 1587.897 1587.204 1587.130 1587.158
Existing Ground OFFSET	-9.541 -8.267 -5.056 -1.989 -1.414 -0.092 1.556 4.817 5.514 9.643

Chainage = 3150.000

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
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Sector v, Salt Lake Kolkata - 700091,
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Ph: 033-40347200
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REV.

DATE

DESCRIPTION

DRAWN BY :

SD

DESIGNED BY :

SCK/MM

APPROVED BY :

KG

SCALE

1 : 250

TITLE :

Detailed Cross Section (Main Line)
(Ch.2+950 to Ch.3+200)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/DCS/10

REVISION : R-1

September 2019

Level Datum =1590.000

Design LEVELS	1592.280 1590.424 1590.423 1591.423 1591.453 1591.500 1591.453 1591.423 1590.423 1590.424 1591.544
Design OFFSET	-5.876 -4.875 -3.875 -2.875 -1.875 -0.000 1.875 2.875 3.875 4.875 5.875
Existing Ground LEVELS	1592.280 1592.298 1591.493 1591.544
Existing Ground OFFSET	-2.451 -1.133 0.784 2.273

Chainage = 3300.000

Level Datum =1593.000

Design LEVELS	1593.938 1594.175 1594.222 1594.175 1594.054
Design OFFSET	-3.083 -1.875 0.000 1.875 2.966
Existing Ground LEVELS	1593.941 1593.957 1593.995 1594.158 1594.081 1594.054
Existing Ground OFFSET	-3.331 -2.143 -1.354 0.099 0.405 2.208

Chainage = 3400.000

Level Datum =1592.000

Design LEVELS	1592.908 1593.067 1593.114 1593.067 1592.690
Design OFFSET	-3.004 -1.875 0.000 1.875 3.222
Existing Ground LEVELS	1592.908 1592.893 1592.824 1592.779 1592.749 1592.774
Existing Ground OFFSET	-1.695 -0.305 0.987 2.157 4.040 5.231

Chainage = 3500.000

Level Datum =1588.000

Design LEVELS	1589.641 1589.891 1589.938 1589.891 1589.861 1588.698
Design OFFSET	-3.095 -1.875 -0.000 1.875 2.875 4.038
Existing Ground LEVELS	1588.399 1588.473 1588.494 1589.773 1589.809 1589.796 1589.777 1588.816 1588.565
Existing Ground OFFSET	-15.000 -14.422 -8.848 -8.489 -2.476 -1.021 -0.215 1.289 3.387 4.773

Chainage = 3250.000

Level Datum =1592.000

Design LEVELS	1592.756 1592.900 1592.947 1592.900 1592.752
Design OFFSET	-2.989 -1.875 -0.000 1.875 2.994
Existing Ground LEVELS	1592.756 1592.758 1592.791 1592.714 1592.712 1592.779
Existing Ground OFFSET	-1.300 -1.278 0.438 2.027 2.033 3.682

Chainage = 3350.000

Level Datum =1594.000

Design LEVELS	1595.886 1594.740 1594.739 1595.739 1595.769 1595.816 1595.769 1595.739 1594.739 1596.069
Design OFFSET	-5.875 -4.875 -3.875 -2.875 -1.875 0.000 1.875 2.875 3.875 5.875
Existing Ground LEVELS	1595.886 1595.755 1595.756 1595.757 1595.674 1595.678 1596.069
Existing Ground OFFSET	-3.246 -1.881 -0.475 -0.257 1.737 1.822 3.561

Chainage = 3450.000

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



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Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE 1 : 250

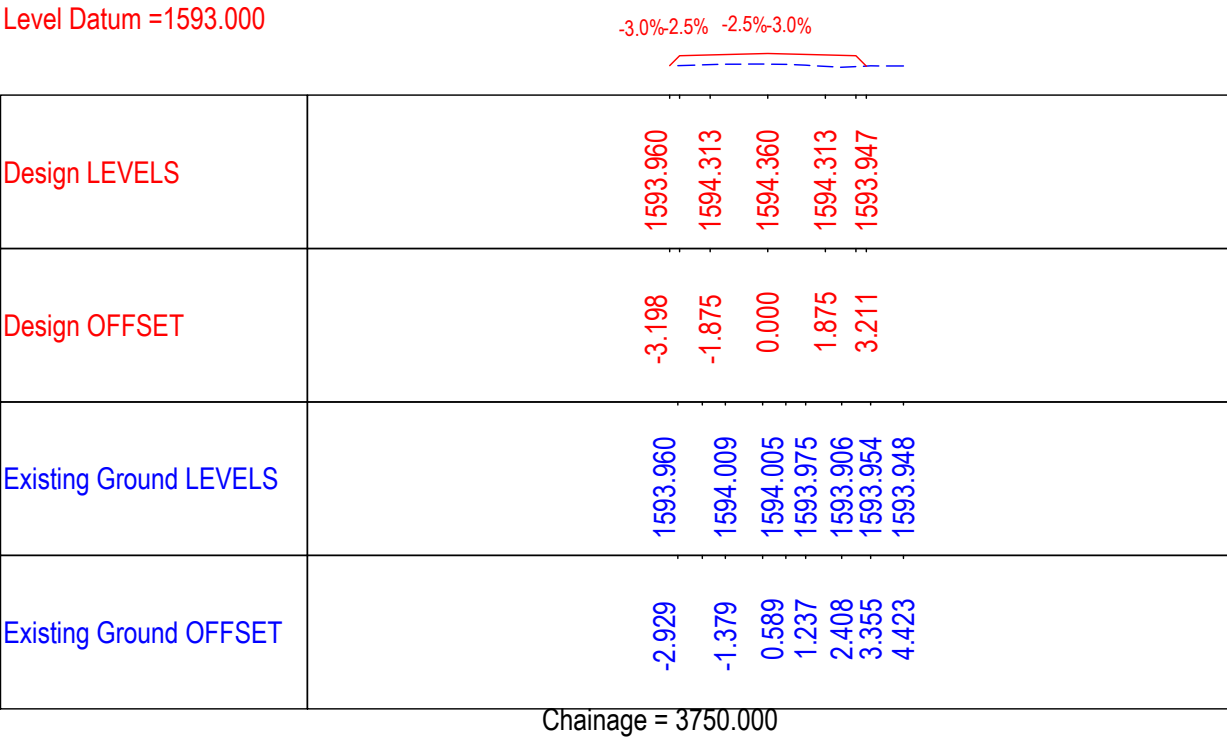
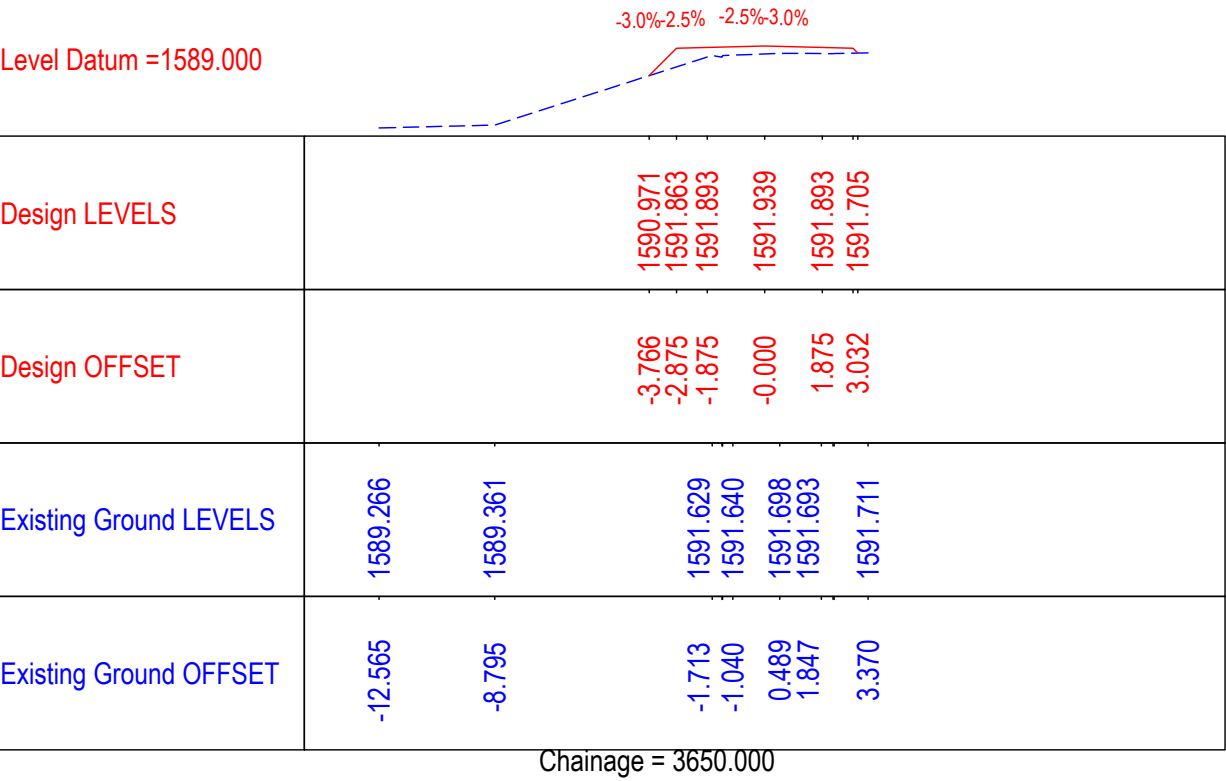
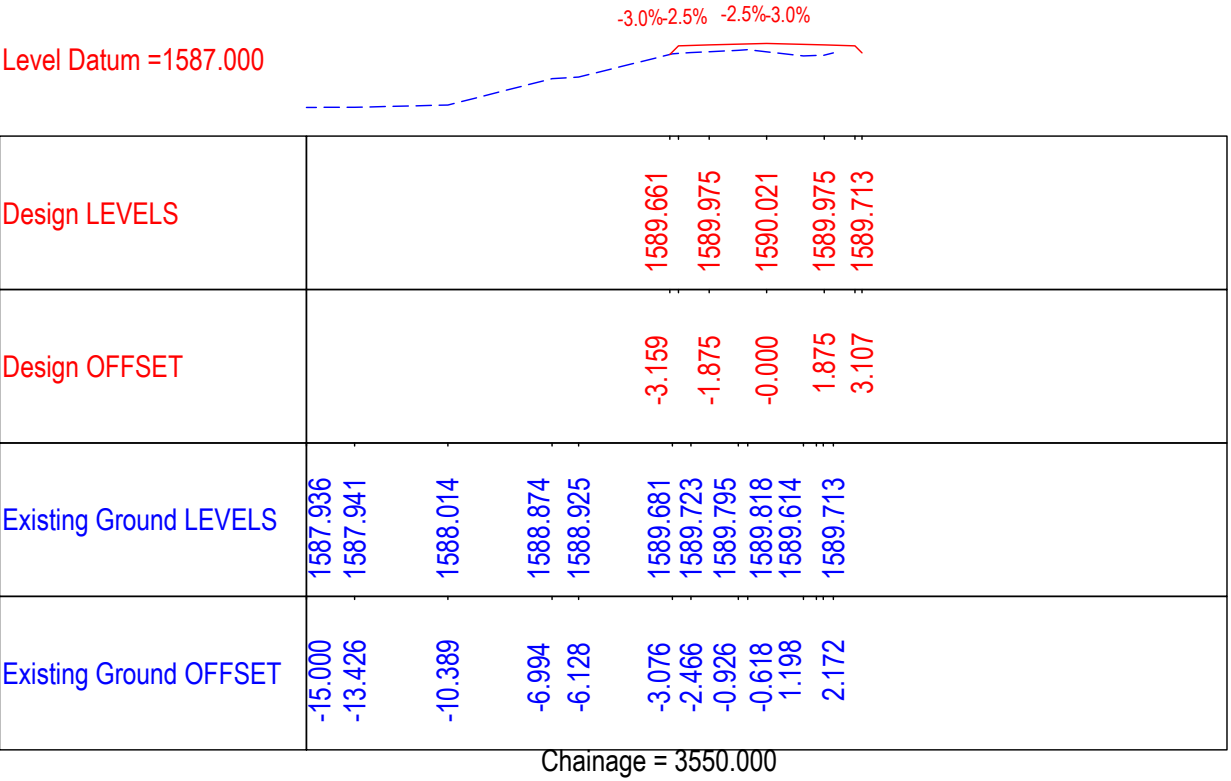
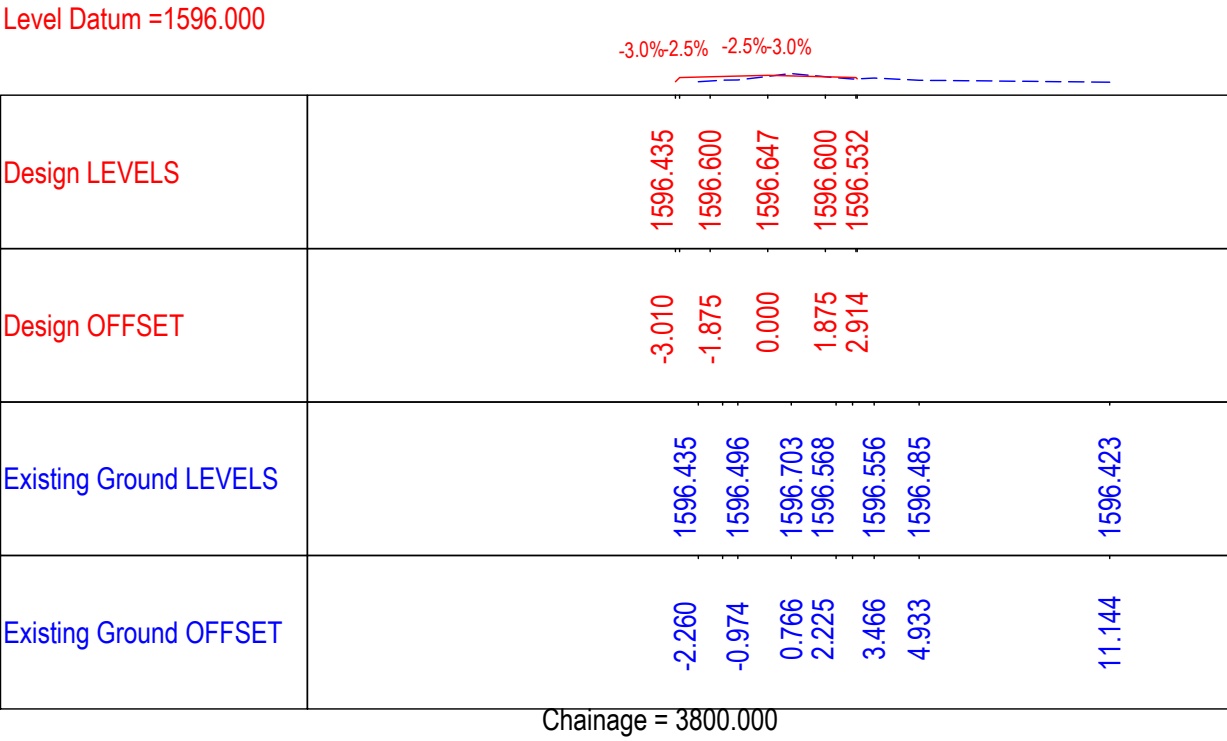
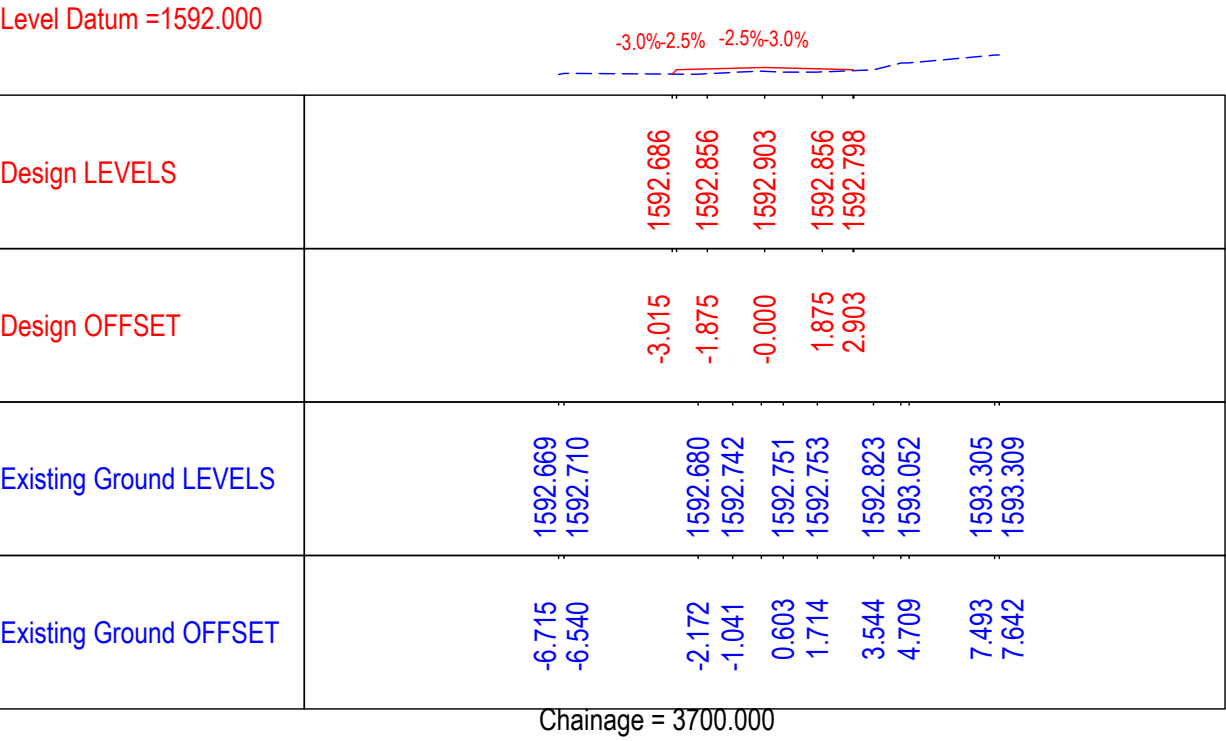
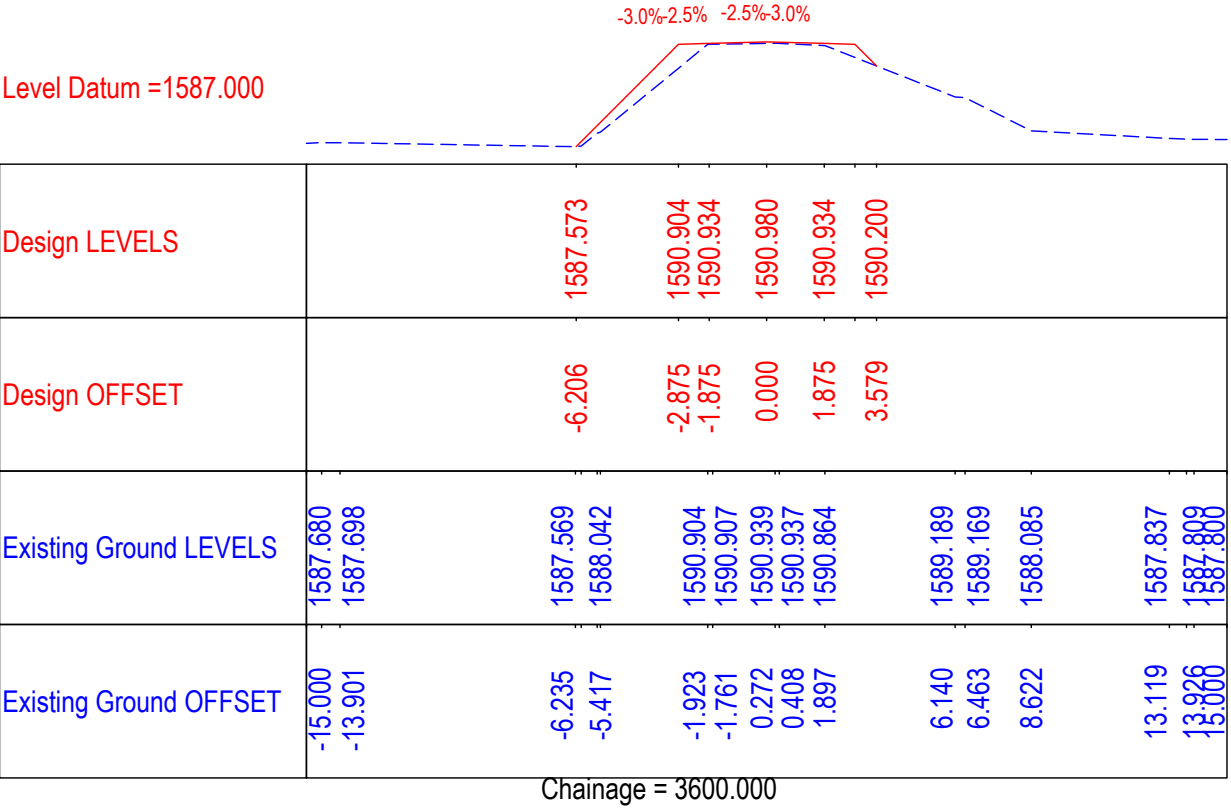
TITLE :

Detailed Cross Section (Main Line)
(Ch.3+250 to Ch.3+500)

DRG. NO. : EPTISA/JTFRP/DPR/J&K/DCS/11

REVISION : R-1

September 2019



Level Datum =1633.000

Design LEVELS	1634.225 1633.288 1633.287 1634.287 1634.317 1634.364 1634.317 1634.287 1633.288 1636.122
Design OFFSET	-5.813 -4.875 -3.875 -2.875 -1.875 0.000 1.875 2.875 3.875 4.875 5.877
Existing Ground LEVELS	1634.225 1634.514 1634.383 1634.494 1634.522 1634.636 1634.613 1636.122
Existing Ground OFFSET	-4.493 -3.137 -1.524 0.022 0.791 2.438 3.015 5.660

Chainage = 4200.000

Level Datum =1628.000

Design LEVELS	1629.455 1628.002 1628.001 1629.001 1629.031 1629.078 1629.031 1629.001 1628.001 1628.002 1630.628
Design OFFSET	-5.875 -4.875 -3.875 -2.875 -1.875 0.000 1.875 2.875 3.875 4.875 5.877
Existing Ground LEVELS	1629.455 1629.454 1629.511 1629.465 1629.394 1629.457 1636.397
Existing Ground OFFSET	-1.917 -1.120 0.452 1.843 2.557 4.025 15.000

Chainage = 4150.000

Level Datum =1642.000

Design LEVELS	1647.369 1642.780 1642.779 1643.779 1643.809 1643.856 1643.809 1643.779 1642.779 1642.780 1646.382
Design OFFSET	-5.879 -4.875 -3.875 -2.875 -1.875 0.000 1.875 2.875 3.875 4.875 5.878
Existing Ground LEVELS	1647.770 1647.355 1646.569 1645.685 1645.661 1645.657 1645.593 1645.778 1646.064 1646.338 1646.348 1647.266 1647.143
Existing Ground OFFSET	-9.379 -5.755 -4.004 -2.115 -0.753 0.429 1.446 2.834 3.971 5.567 5.714 10.230 15.000

Chainage = 4300.000

Level Datum =1637.000

Design LEVELS	1638.913 1639.003 1639.050 1639.003 1638.973 1637.973 1637.974 1638.857
Design OFFSET	-2.935 -1.875 -0.000 1.875 2.875 3.875 4.875 5.757
Existing Ground LEVELS	1639.197 1638.887 1638.840 1638.916 1638.943 1639.072 1638.857
Existing Ground OFFSET	-4.304 -2.742 -1.119 0.491 1.934 3.036 4.417

Chainage = 4250.000

Level Datum =1653.000

Design LEVELS	1659.489 1653.026 1653.025 1654.025 1654.055 1654.102 1654.055 1654.025 1653.025 1653.026 1658.120
Design OFFSET	-5.880 -4.875 -3.875 -2.875 -1.875 0.000 1.875 2.875 3.875 4.875 5.879
Existing Ground LEVELS	1659.489 1659.469 1659.141 1659.100 1659.036 1658.892 1658.563 1657.994
Existing Ground OFFSET	-4.729 -4.669 -2.013 -0.691 0.923 2.409 3.663 6.510

Chainage = 4400.000

Level Datum =1647.000

Design LEVELS	1653.144 1647.903 1647.902 1648.902 1648.932 1648.979 1648.932 1648.902 1647.902 1647.903 1653.099
Design OFFSET	-5.879 -4.875 -3.875 -2.875 -1.875 -0.000 1.875 2.875 3.875 4.875 5.879
Existing Ground LEVELS	1654.516 1652.693 1652.483 1652.536 1652.500 1652.514 1652.463 1652.433 1652.430 1653.258 1651.820 1651.049 1650.009
Existing Ground OFFSET	-8.082 -5.155 -4.770 -2.980 -1.416 -0.383 1.259 2.386 4.242 5.697 7.349 8.374 10.037

Chainage = 4350.000

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



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Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE 1 : 250

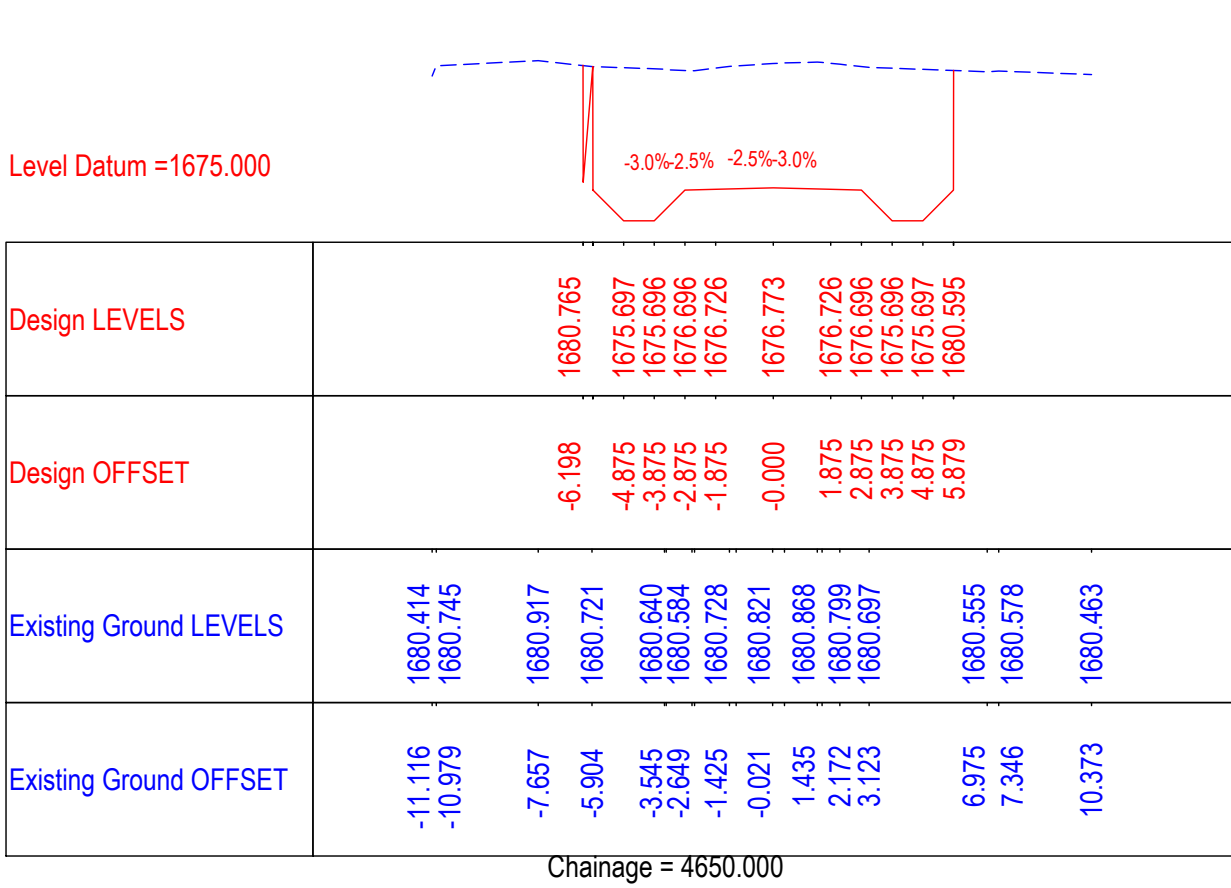
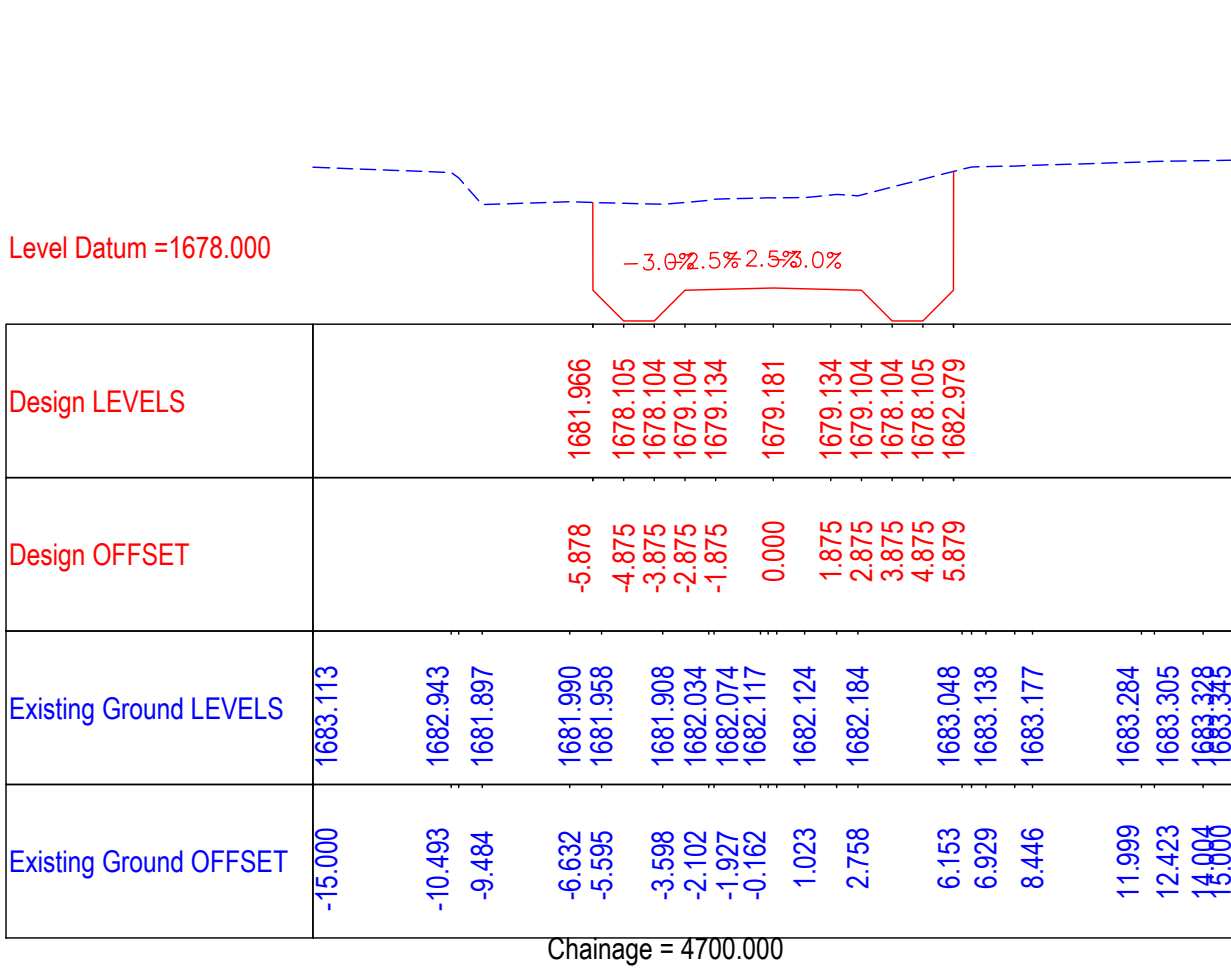
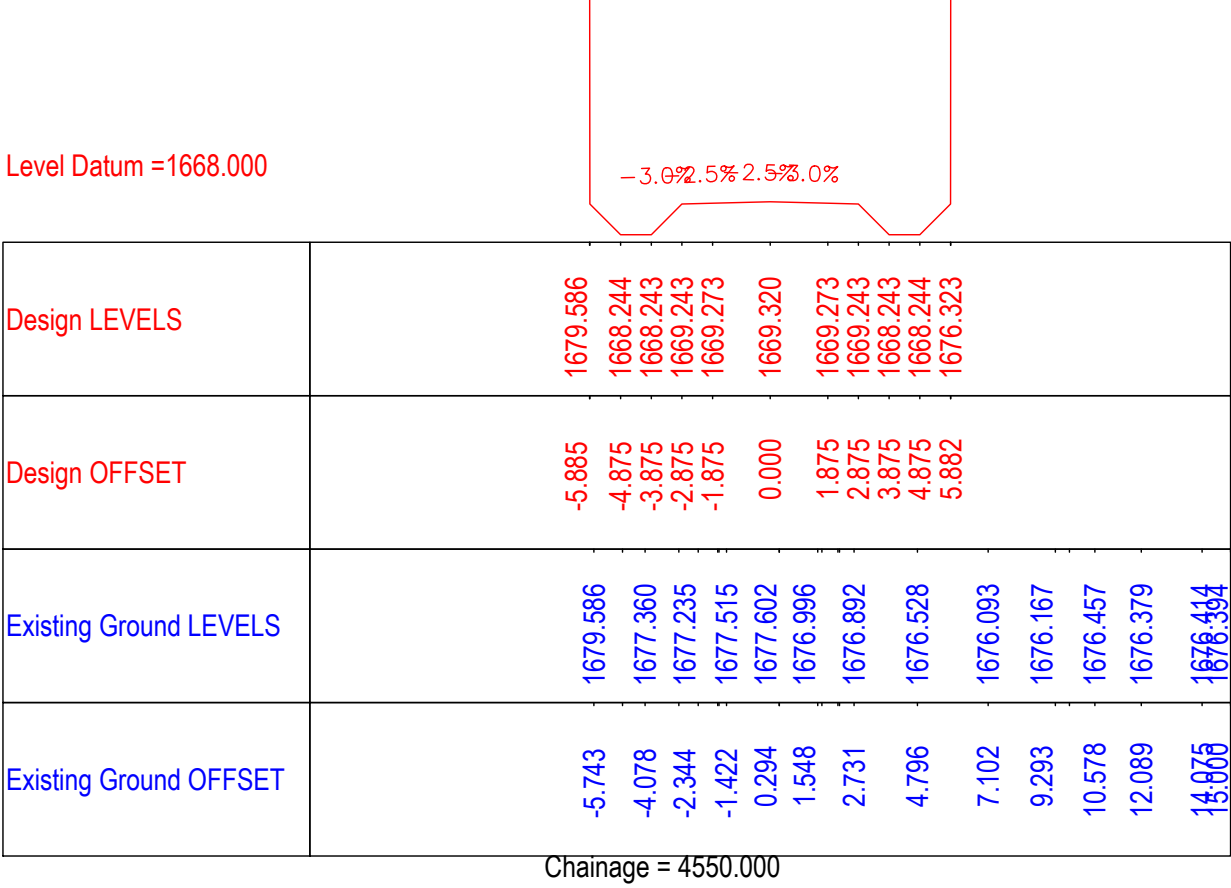
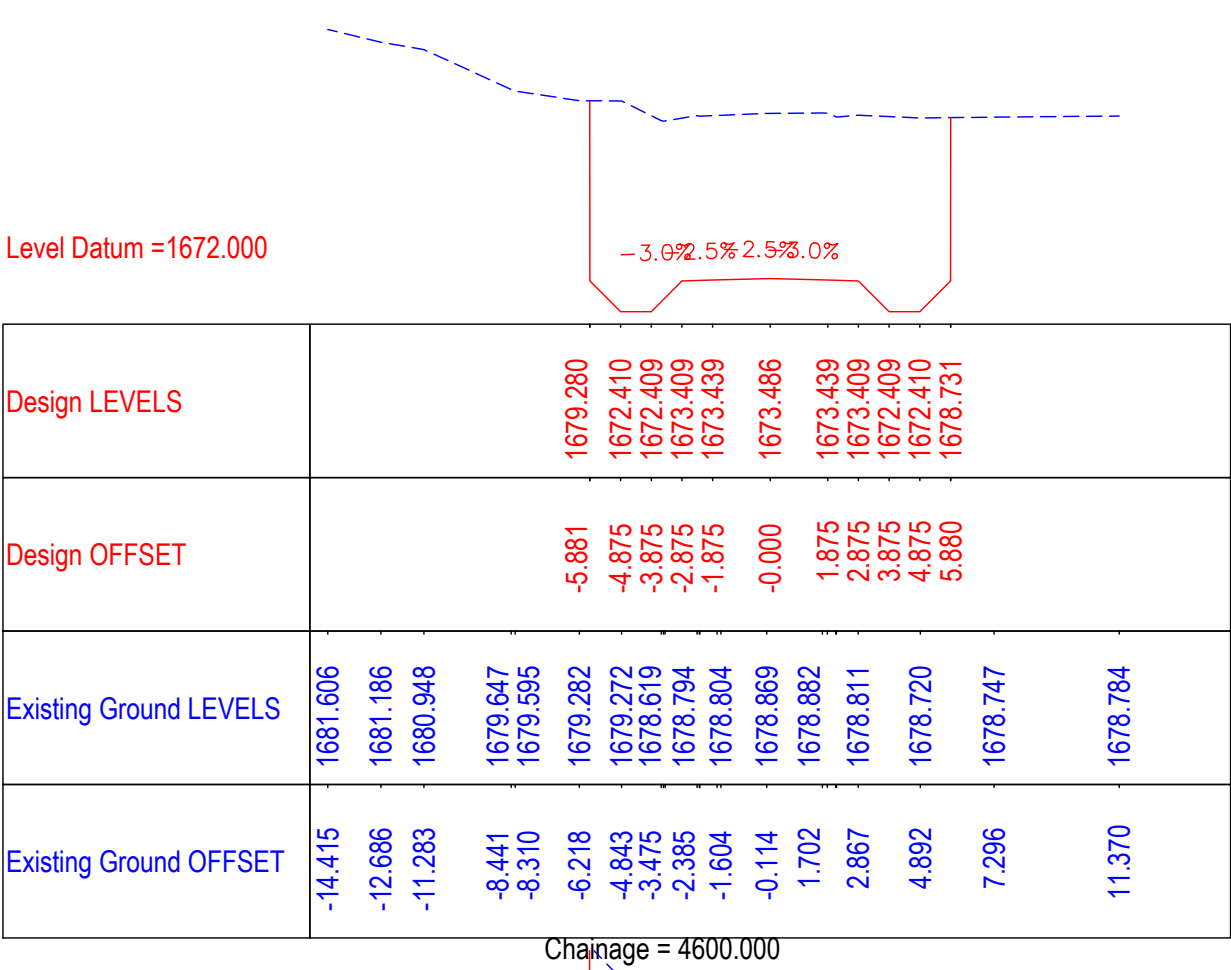
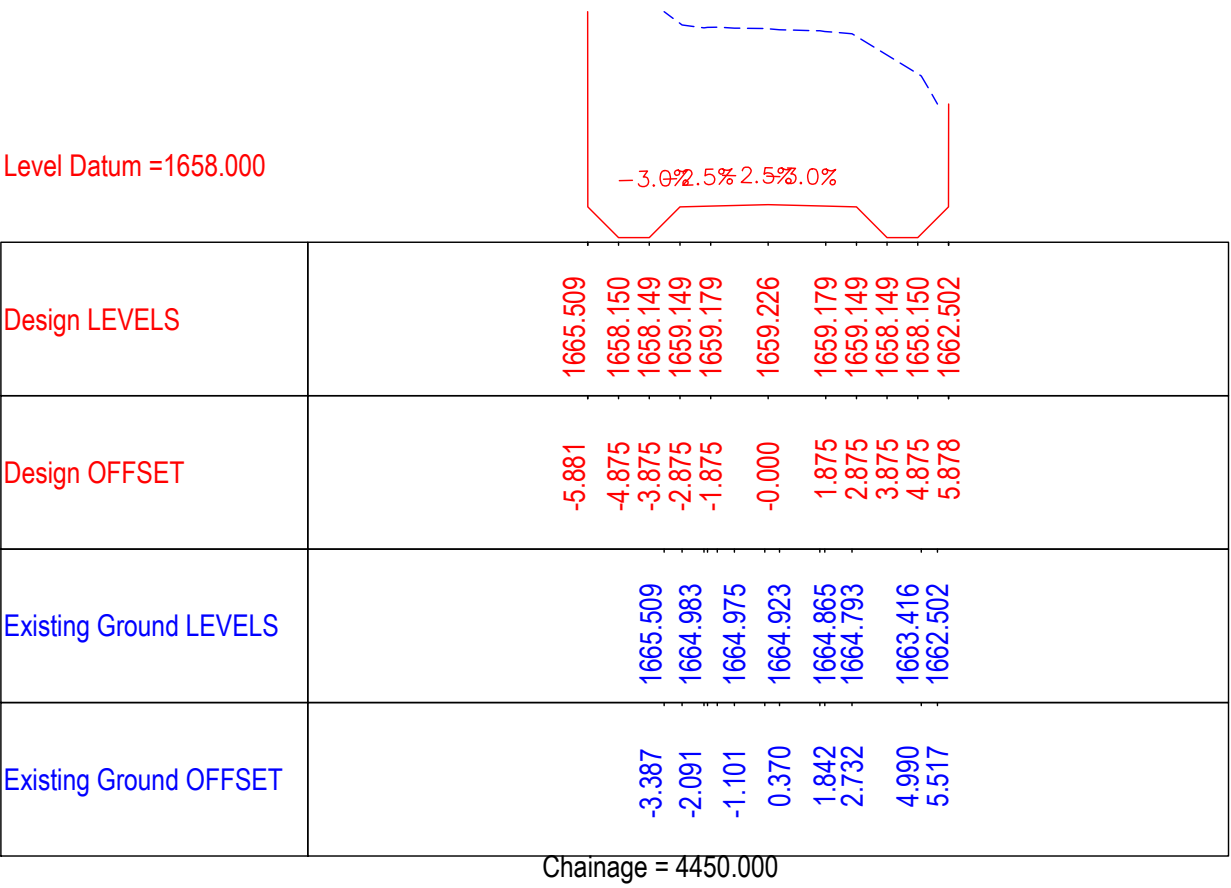
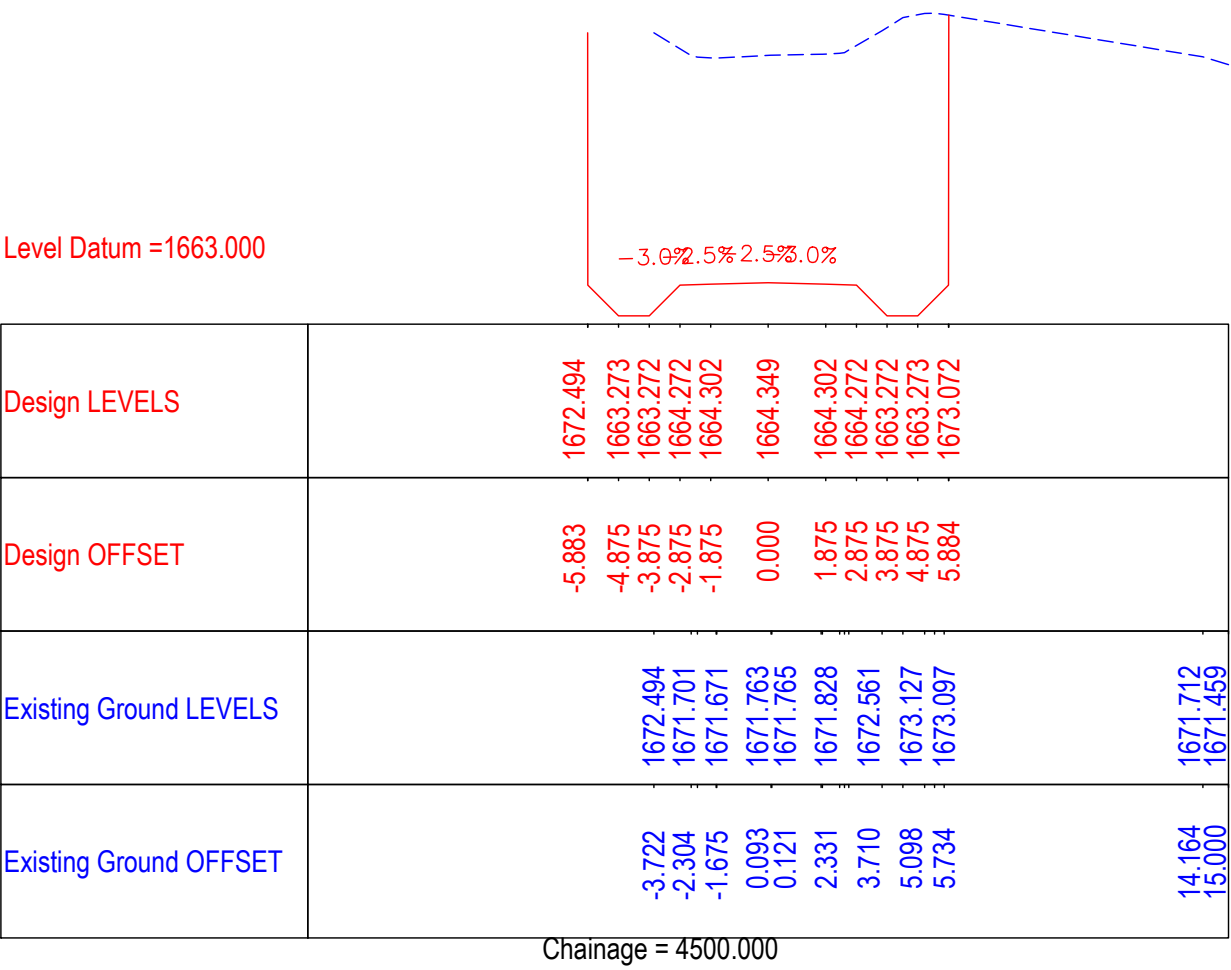
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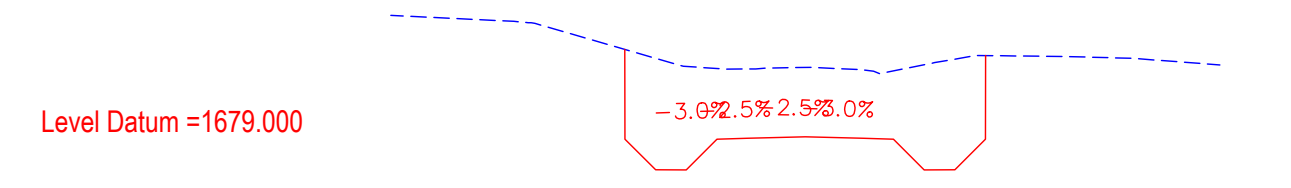
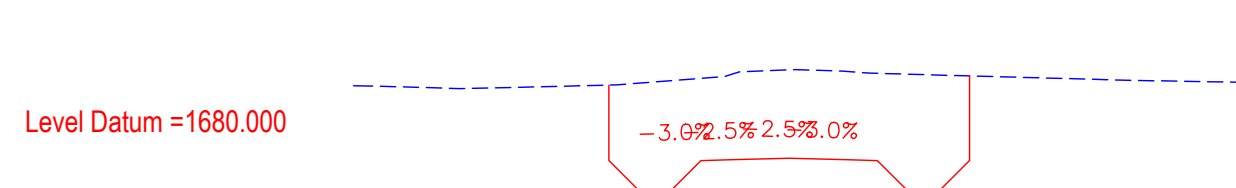
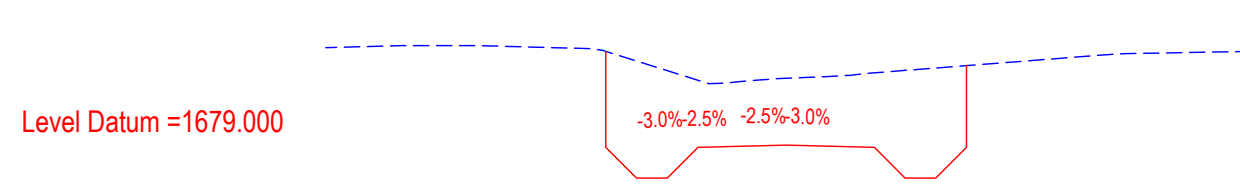
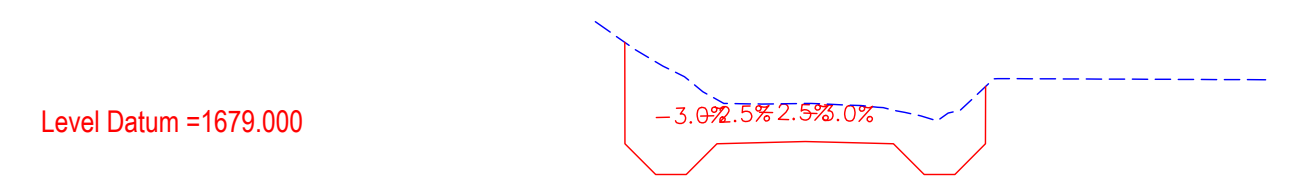
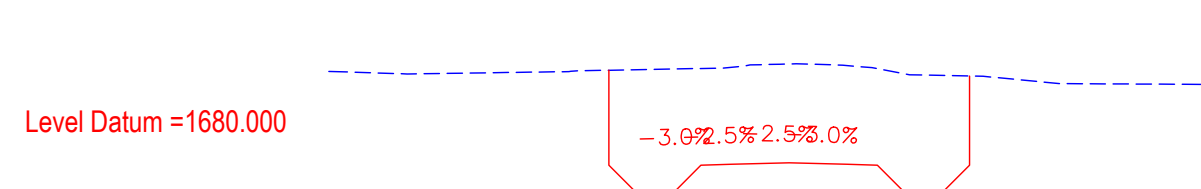
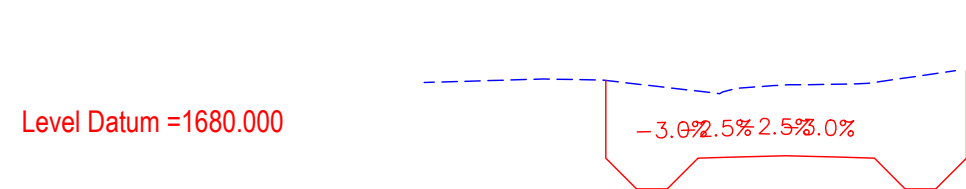
Detailed Cross Section (Main Line)
(Ch.4+150 to Ch.4+400)

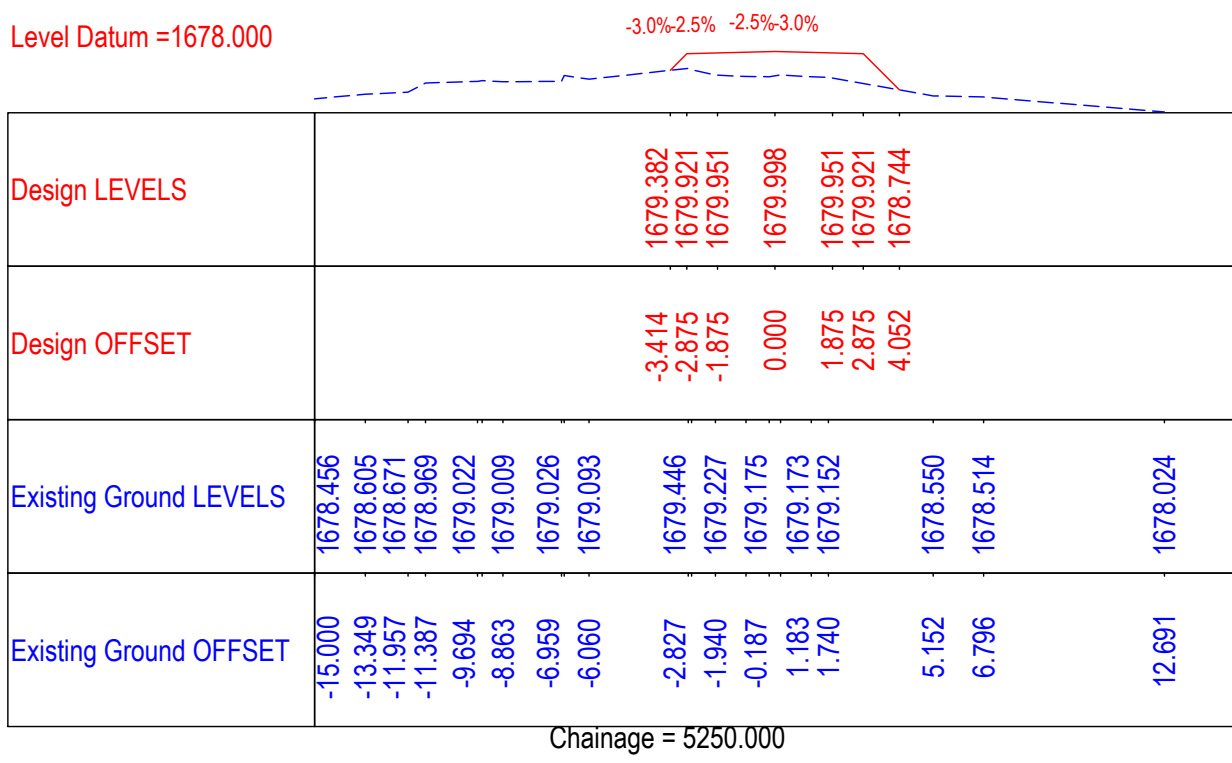
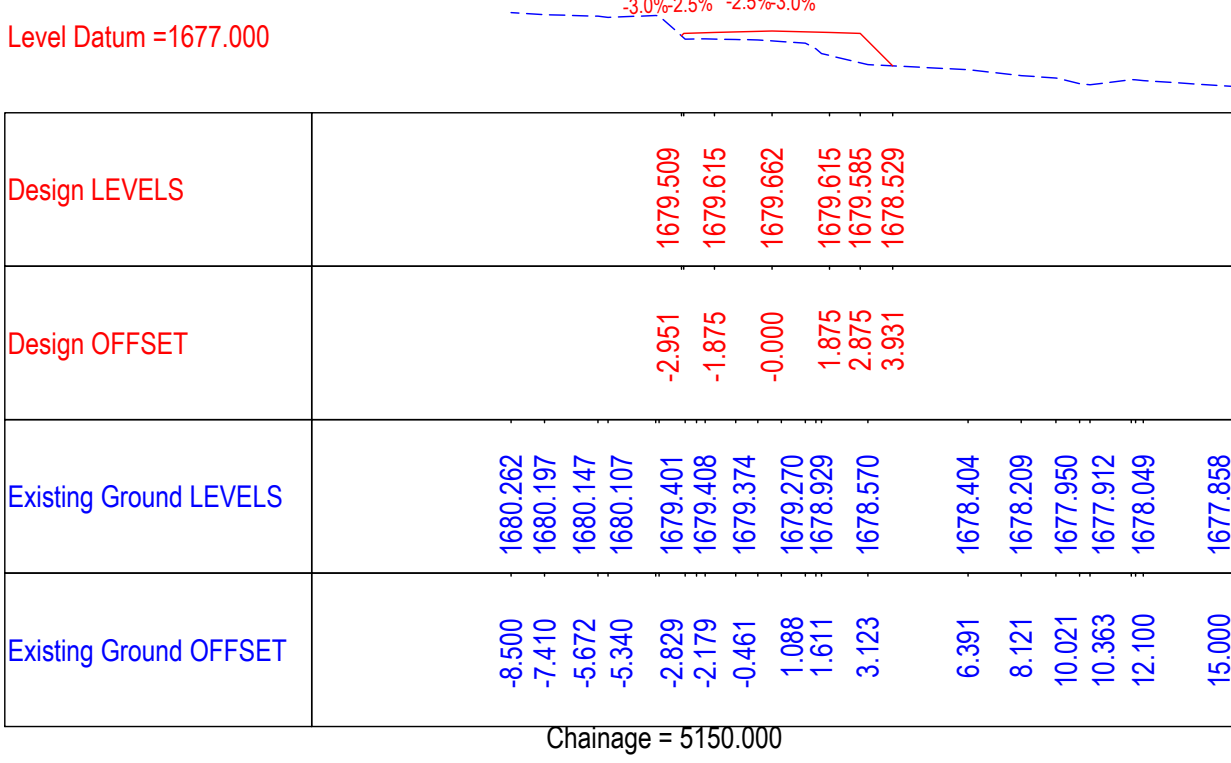
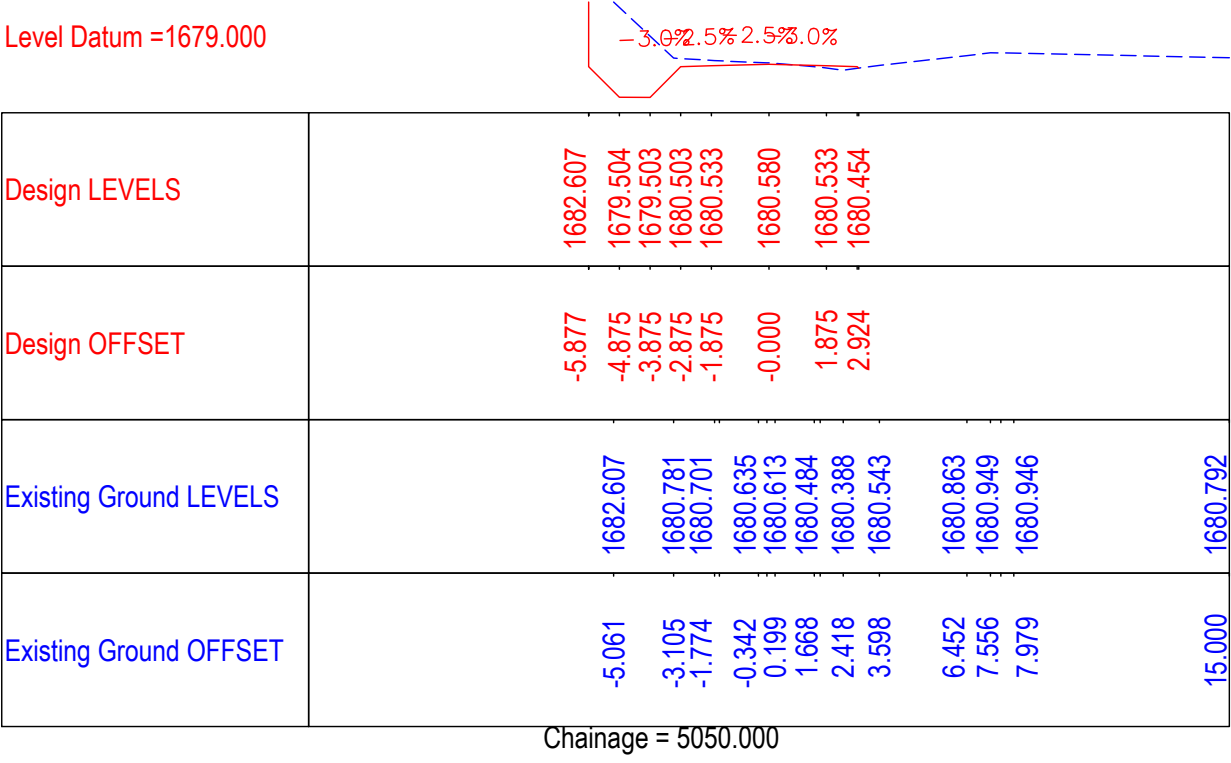
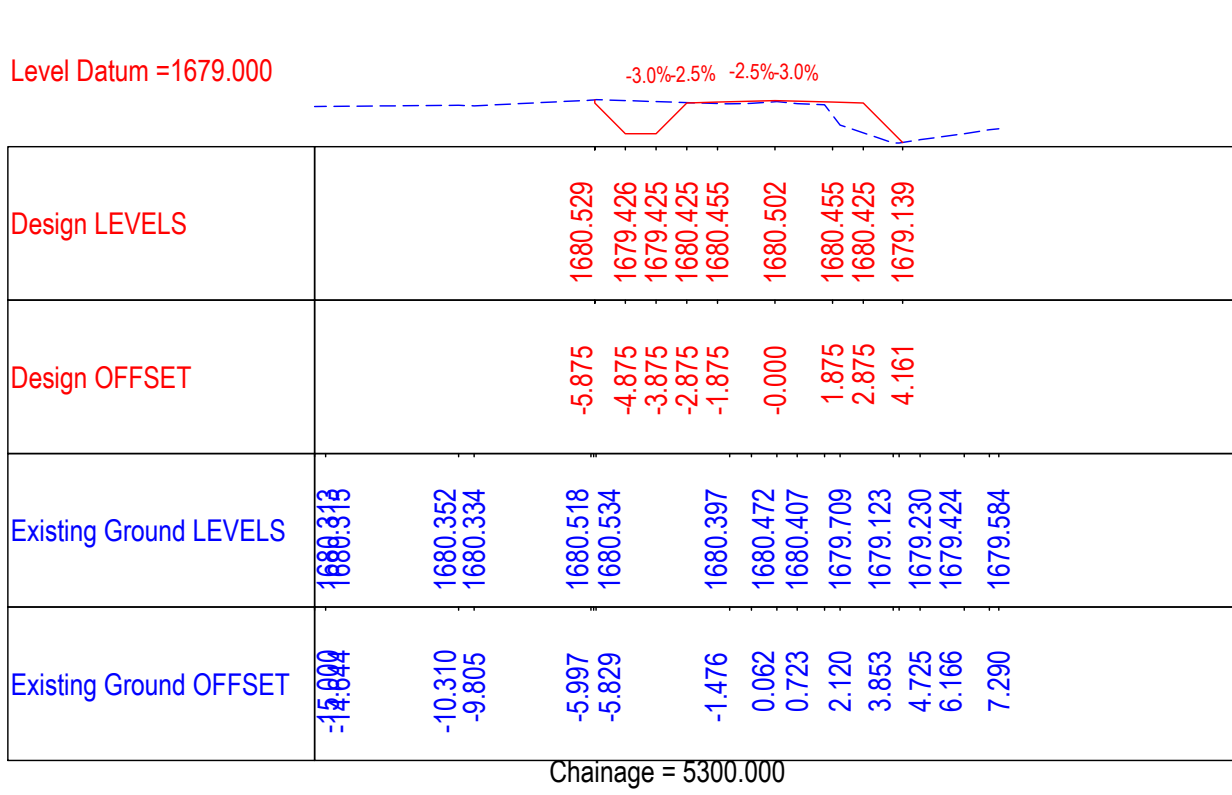
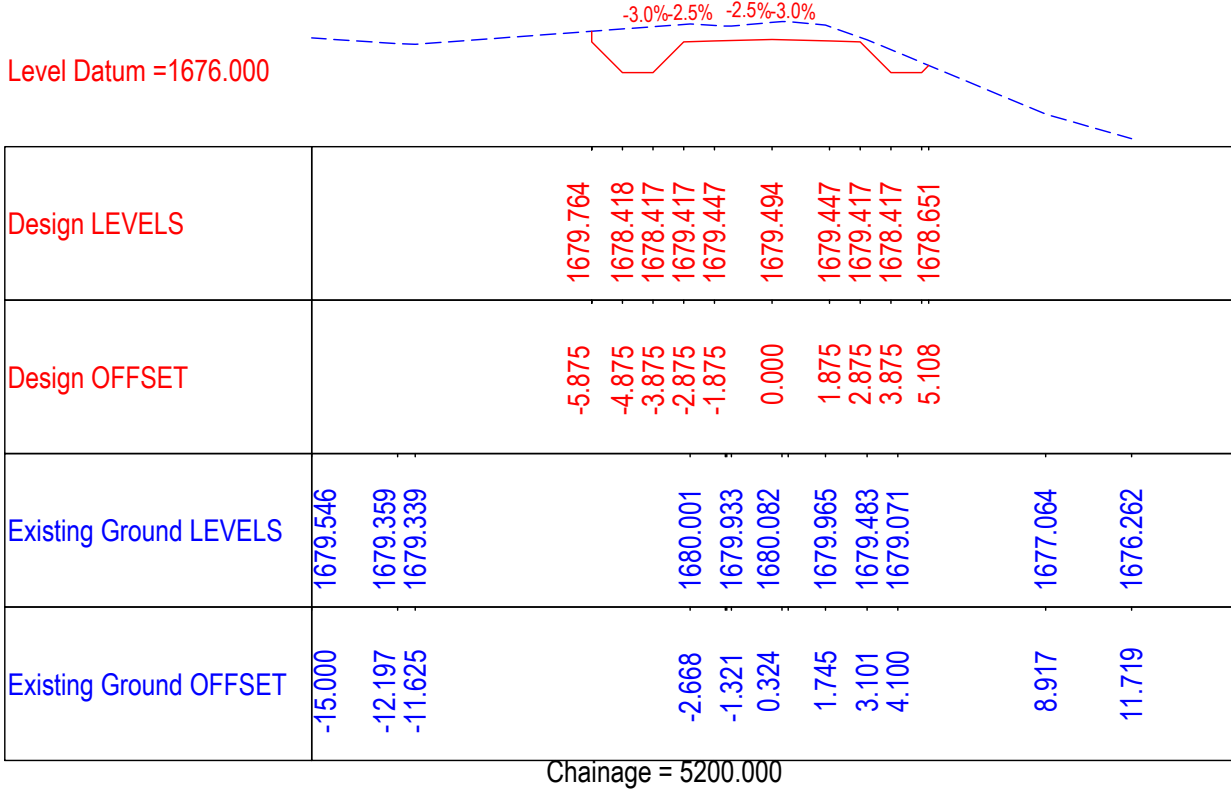
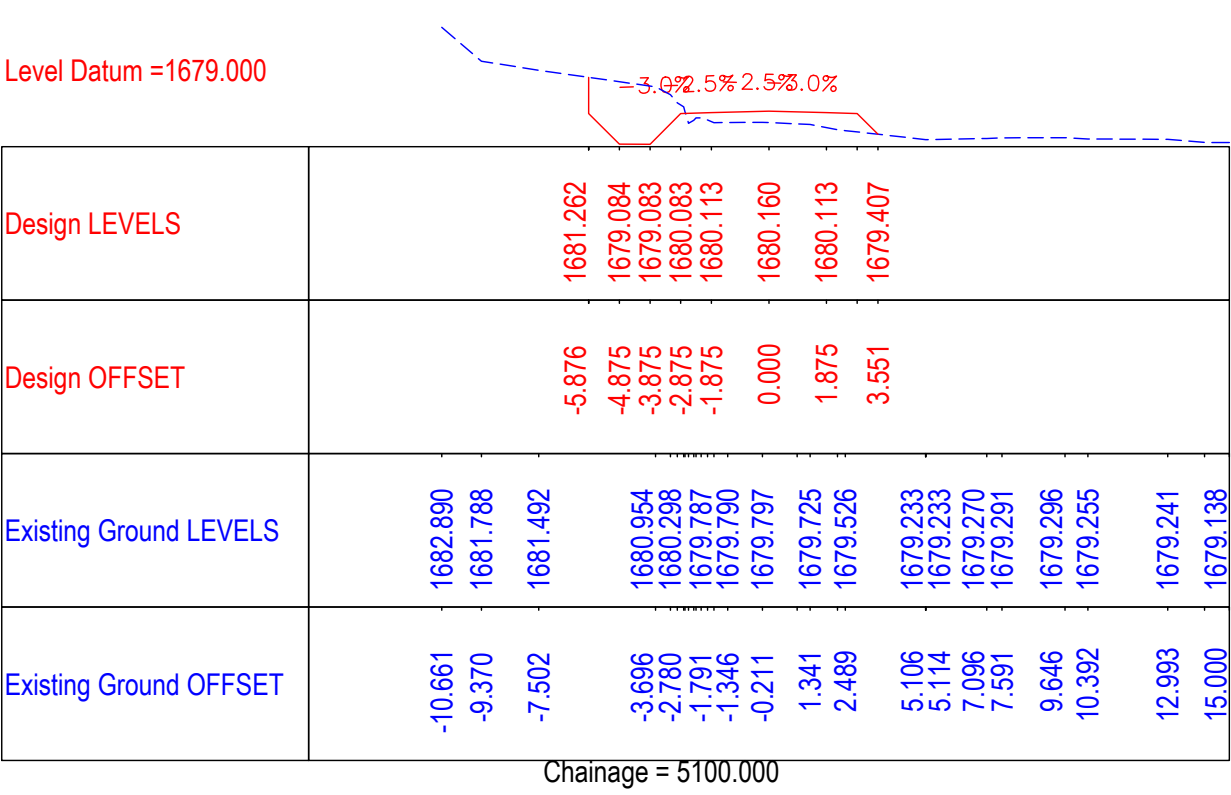
DRG. NO. : EPTISA/JTRP/DPR/J&K/DCS/14

REVISION : R-1

September 2019







Level Datum =1686.000

Design LEVELS	1686.750 1686.982 1687.029 1686.982 1686.723
Design OFFSET	-3.078 -1.875 0.000 1.875 3.105
Existing Ground LEVELS	1686.750 1686.736 1686.724 1686.723
Existing Ground OFFSET	-0.830 0.336 0.744 2.573

Chainage = 5700.000

Level Datum =1686.000

Design LEVELS	1687.529 1687.745 1687.792 1687.745 1687.377
Design OFFSET	-3.062 -1.875 -0.000 1.875 3.213
Existing Ground LEVELS	1687.529 1687.515 1687.516 1687.571 1687.157 1686.739 1686.747
Existing Ground OFFSET	-1.584 -0.230 0.334 1.392 5.280 14.363 15.000

Chainage = 5800.000

Level Datum =1688.000

Design LEVELS	1688.260 1688.470 1688.517 1688.470 1688.134
Design OFFSET	-3.055 -1.875 -0.000 1.875 3.181
Existing Ground LEVELS	1688.156 1688.203 1688.266 1688.272 1688.267 1688.156 1688.069 1688.134 1688.019 1688.033 1688.084 1688.171 1688.205
Existing Ground OFFSET	-13.612 -9.441 -2.467 -1.602 -0.298 1.101 1.512 3.177 7.942 9.326 10.681 11.615 13.118

Chainage = 5900.000

Level Datum =1685.000

Design LEVELS	1685.618 1686.560 1686.590 1686.637 1686.590 1686.148
Design OFFSET	-3.818 -2.875 -1.875 0.000 1.875 3.288
Existing Ground LEVELS	1685.618 1686.083 1686.097 1686.122 1686.076 1686.181 1686.132 1685.819 1686.151
Existing Ground OFFSET	-3.702 -2.107 -1.1521 -0.494 1.392 4.179 10.656 12.841 14.424

Chainage = 5650.000

Level Datum =1686.000

Design LEVELS	1687.157 1687.374 1687.421 1687.374 1686.907
Design OFFSET	-3.062 -1.875 0.000 1.875 3.312
Existing Ground LEVELS	1687.157 1687.155 1687.158 1687.157 1687.131 1686.624 1686.896 1687.031 1687.130 1686.783 1686.774
Existing Ground OFFSET	-2.442 -2.367 -0.776 1.142 1.776 5.258 6.869 7.671 8.550 14.535 15.000

Chainage = 5750.000

Level Datum =1687.000

Design LEVELS	1687.824 1688.108 1688.155 1688.108 1687.844
Design OFFSET	-3.129 -1.875 -0.000 1.875 3.109
Existing Ground LEVELS	1687.487 1688.861 1688.671 1687.634 1687.615 1687.770 1687.875 1687.898 1687.912 1687.938 1687.773 1687.624 1687.727 1687.716 1687.655
Existing Ground OFFSET	-15.000 -8.844 -8.511 -7.136 -6.041 -3.845 -2.437 -0.965 -0.205 1.725 4.150 7.038 10.501 14.177 15.000

Chainage = 5850.000

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION
------	------	-------------

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE 1 : 250

TITLE :

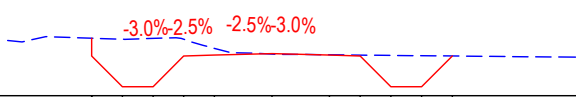
Detailed Cross Section (Main Line)
(Ch.5+650 to Ch.5+900)

DRG. NO. : EPTISA/JTRP/DPR/J&K/DCS/19

REVISION : R-1

September 2019

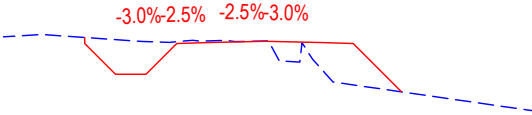
Level Datum =1689.000



Design LEVELS	1690.876	1689.297	1689.296	1690.326	1690.372	1690.326	1689.296	1689.297	1690.296
Design OFFSET	-5.876	-4.875	-3.875	-2.875	-1.875	-0.000	1.875	2.875	3.875
Existing Ground LEVELS	1690.799	1690.926	1690.840	1690.891	1690.296	1690.407	1690.349	1690.338	1690.257
Existing Ground OFFSET	-8.615	-7.373	-4.800	-3.124	-2.251	-1.364	0.158	1.607	9.893

Chainage = 6900.000

Level Datum =1688.000



Design LEVELS	1690.943	1689.745	1689.744	1690.744	1690.774	1690.821	1690.774	1690.744	1689.170
Design OFFSET	-5.875	-4.875	-3.875	-2.875	-1.875	-0.000	1.875	2.875	4.448
Existing Ground LEVELS	1690.962	1691.039	1690.814	1690.828	1690.847	1690.829	1690.142	1689.492	1688.543
Existing Ground OFFSET	-8.522	-7.247	-4.016	-2.637	-1.306	0.115	1.134	2.214	8.803

Chainage = 7000.000

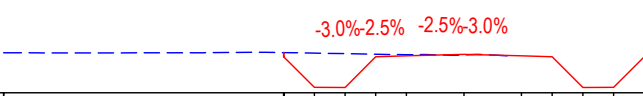
Level Datum =1690.000



Design LEVELS	1691.577	1691.700	1691.747	1691.700	1691.670	1690.670	1690.671	1691.715	
Design OFFSET	-2.968	-1.875	0.000	1.875	2.875	3.875	4.875	5.875	
Existing Ground LEVELS	1691.523	1691.595	1692.504	1691.728	1691.481	1691.442	1691.581	1691.587	1691.628
Existing Ground OFFSET	-15.098	-14.470	-12.244	-9.799	-8.281	-6.560	-2.850	-1.822	-0.517

Chainage = 7100.000

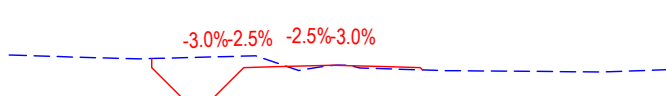
Level Datum =1689.000



Design LEVELS	1690.175	1689.175	1689.174	1690.174	1690.204	1690.251	1690.204	1690.174	1689.174
Design OFFSET	-5.875	-4.875	-3.875	-2.875	-1.875	0.000	1.875	2.875	3.875
Existing Ground LEVELS	1690.302	1690.299	1690.303	1690.306	1690.321	1690.319	1690.240	1690.247	1690.253
Existing Ground OFFSET	-15.000	-12.642	-9.590	-8.447	-6.648	-6.468	-1.930	-1.243	0.443

Chainage = 6850.000

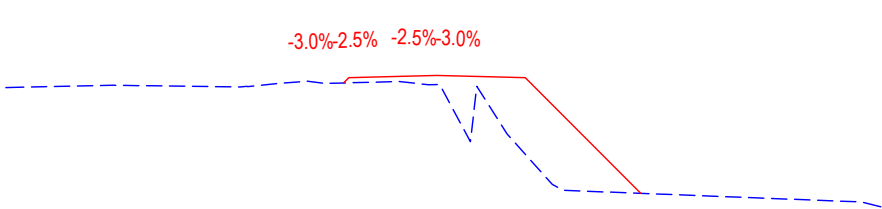
Level Datum =1689.000



Design LEVELS	1691.158	1689.864	1689.863	1690.863	1690.893	1690.940	1690.893	1690.786	
Design OFFSET	-5.875	-4.875	-3.875	-2.875	-1.875	-0.000	1.875	2.952	
Existing Ground LEVELS	1691.274	1691.203	1691.148	1691.241	1691.245	1690.770	1690.938	1690.851	1690.765
Existing Ground OFFSET	-10.518	-8.308	-6.286	-2.718	-2.485	-1.081	0.551	0.904	3.598

Chainage = 6950.000

Level Datum =1686.000



Design LEVELS	1690.458	1690.658	1690.705	1690.658	1690.628	1686.861			
Design OFFSET	-3.045	-1.875	-0.000	1.875	2.875	6.642			
Existing Ground LEVELS	1690.309	1690.383	1690.340	1690.340	1690.516	1690.442	1690.506	1690.406	1690.348
Existing Ground OFFSET	-14.049	-10.536	-7.382	-6.172	-4.219	-3.637	-1.241	0.090	1.295

Chainage = 7050.000

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
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Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE 1 : 250

TITLE :

Detailed Cross Section (Main Line)
(Ch.6+850 to Ch.7+100)

DRG. NO. : EPTISA/JTFRP/DPR/J&K/DCS/23

REVISION : R-1

September 2019



Design LEVELS	1690.848 1691.015 1691.062 1691.015 1690.985 1689.986 1690.974
Design OFFSET	-3.013 -1.875 0.000 1.875 2.875 3.875 4.875 5.863
Existing Ground LEVELS	1690.848 1691.007 1691.042 1691.055 1690.974
Existing Ground OFFSET	-2.063 -1.533 0.081 1.070 4.910

Chainage = 7200.000



Design LEVELS	1691.268 1690.210 1690.209 1691.209 1691.239 1691.285 1691.239 1691.209 1690.209 1690.210 1691.552
Design OFFSET	-5.875 -4.875 -3.875 -2.875 -1.875 0.000 1.875 2.875 3.875 4.875 5.875
Existing Ground LEVELS	1691.268 1691.245 1691.238 1691.318 1691.324 1691.270 1691.264 1691.269 1691.270 1691.302 1691.242 1691.258 1691.271 1691.302 1691.552
Existing Ground OFFSET	-15.889 -12.648 -12.241 -10.338 -9.867 -7.814 -7.458 -5.468 -4.774 -3.200 -2.093 -1.548 0.133 1.480 2.214

Chainage = 7300.000



Design LEVELS	1691.113 1691.396 1691.443 1691.396 1691.366 1690.366 1690.367 1691.367
Design OFFSET	-3.128 -1.875 0.000 1.875 2.875 3.875 4.875 5.875
Existing Ground LEVELS	1691.091 1691.107 1691.115 1691.099 1691.353 1691.390
Existing Ground OFFSET	-5.706 -3.768 -2.770 -1.582 -0.166 1.040

Chainage = 7150.000



Design LEVELS	1690.917 1689.826 1689.825 1690.825 1690.855 1690.902 1690.855 1690.506
Design OFFSET	-5.875 -4.875 -3.875 -2.875 -1.875 0.000 1.875 3.194
Existing Ground LEVELS	1690.917 1690.900 1690.867 1690.834 1690.506
Existing Ground OFFSET	-2.422 -1.686 -0.431 1.042 2.334

Chainage = 7250.000



Design LEVELS	1691.470 1690.470 1690.469 1691.469 1691.499 1691.546 1691.499 1691.469 1690.469 1690.470 1691.470
Design OFFSET	-5.875 -4.875 -3.875 -2.875 -1.875 0.000 1.875 2.875 3.875 4.875 5.875
Existing Ground LEVELS	1691.576 1691.518 1691.473
Existing Ground OFFSET	0.271 2.188 3.582

Chainage = 7343.168

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
***(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)***

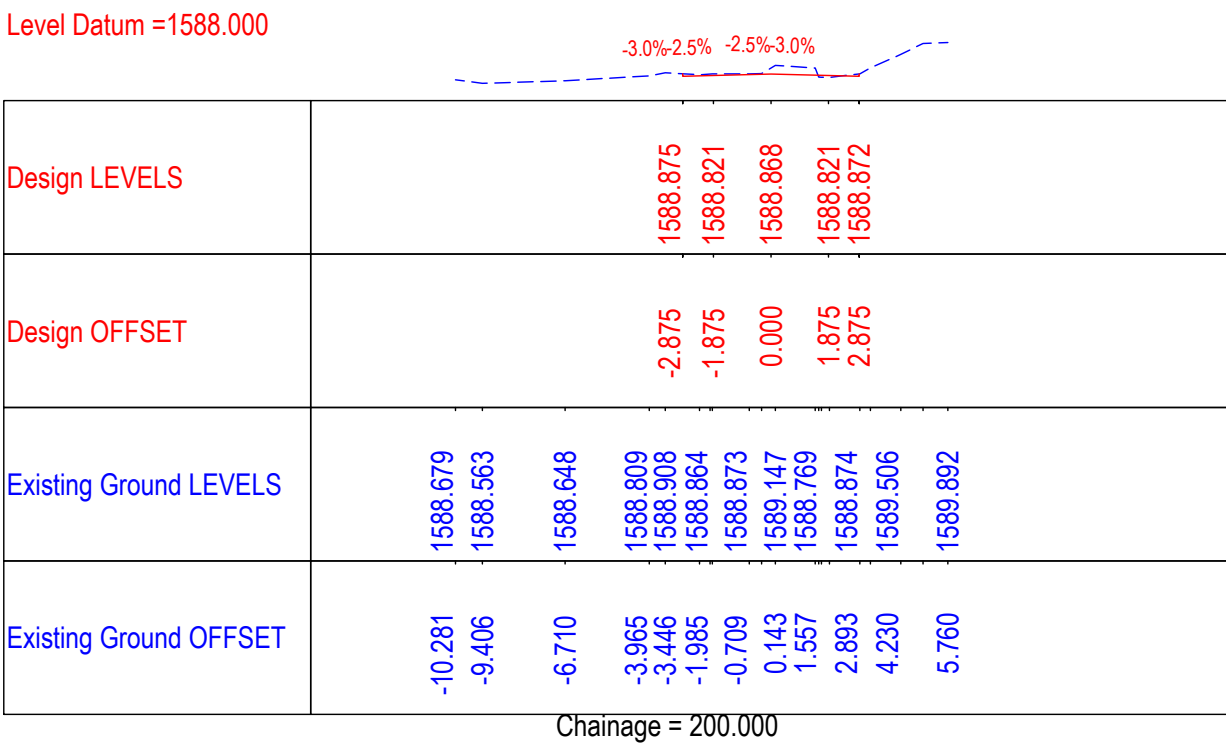
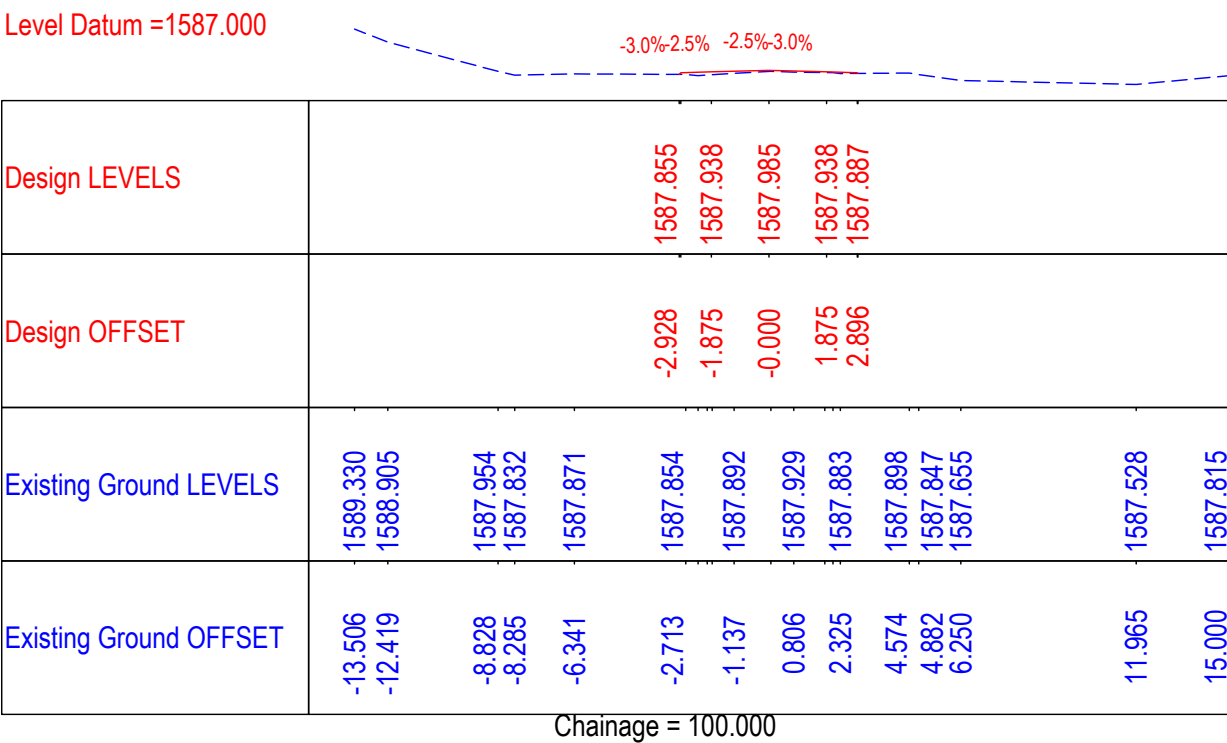
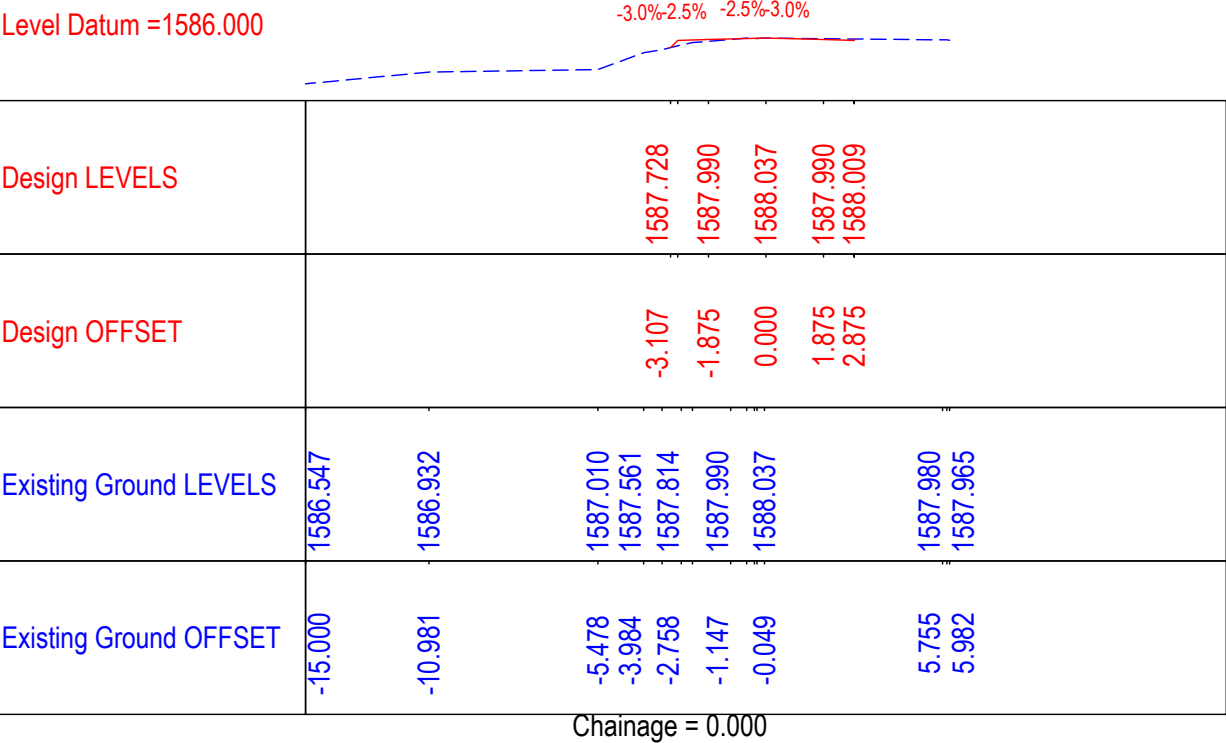
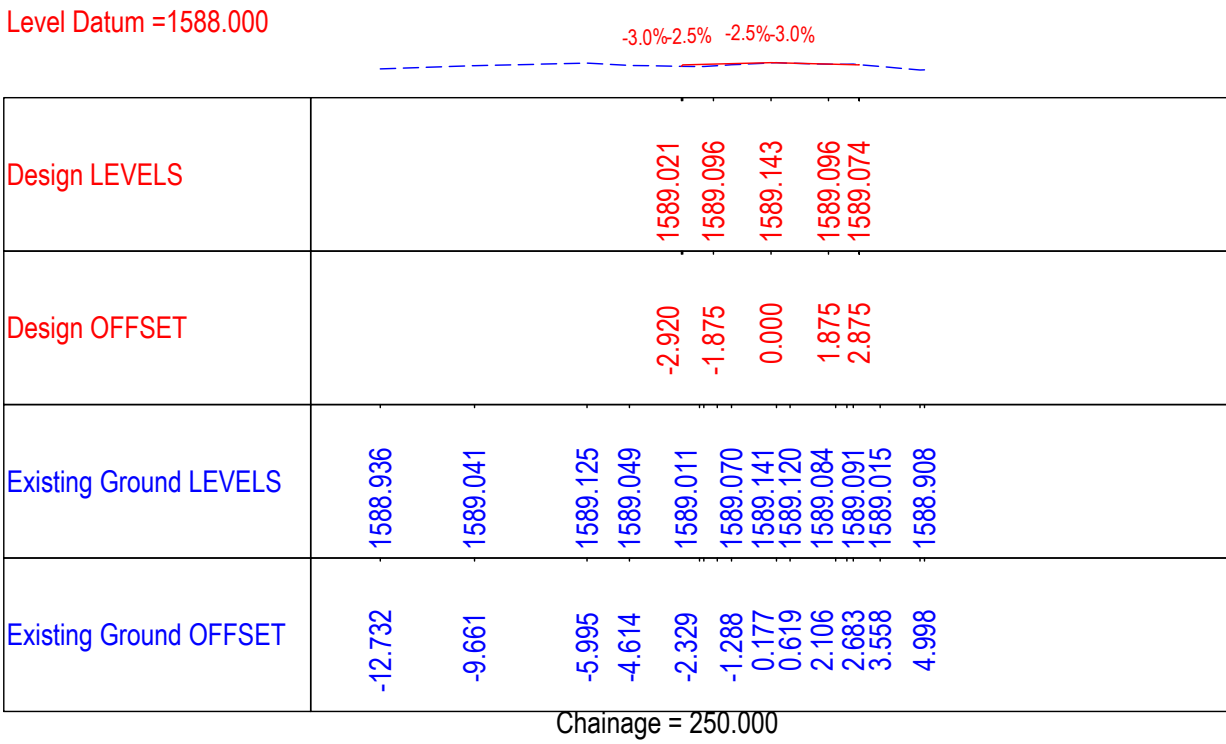
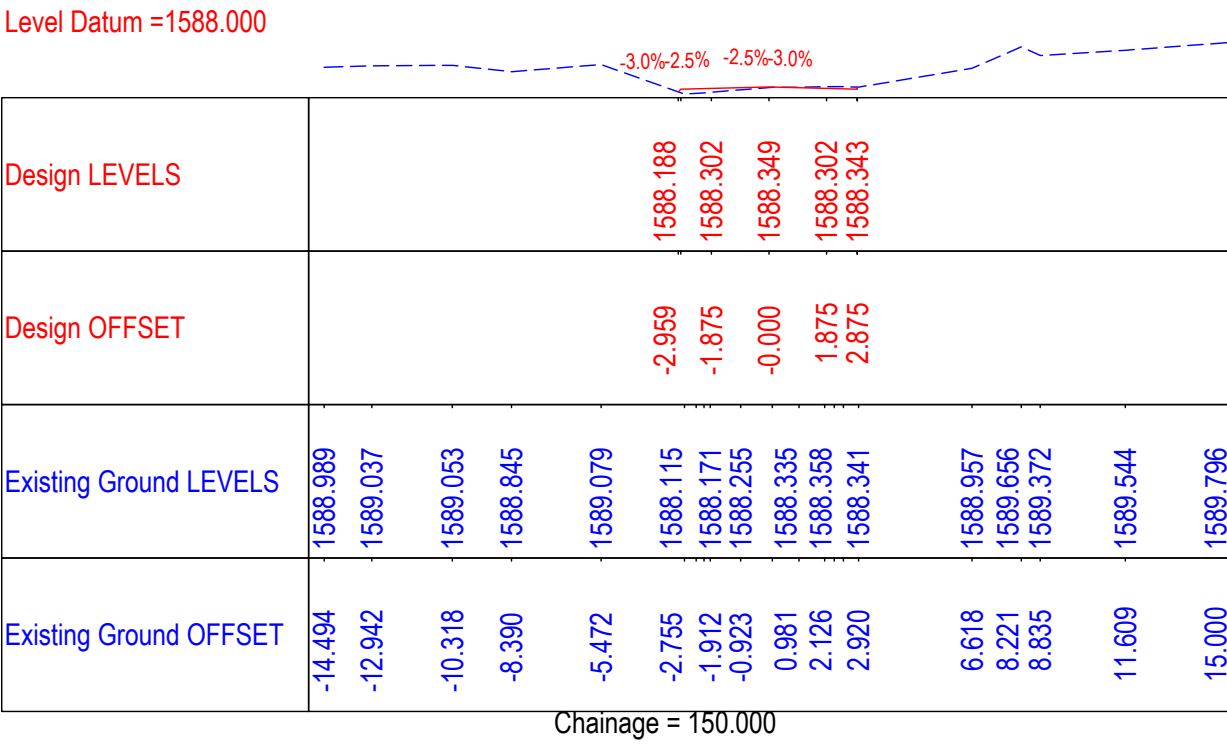
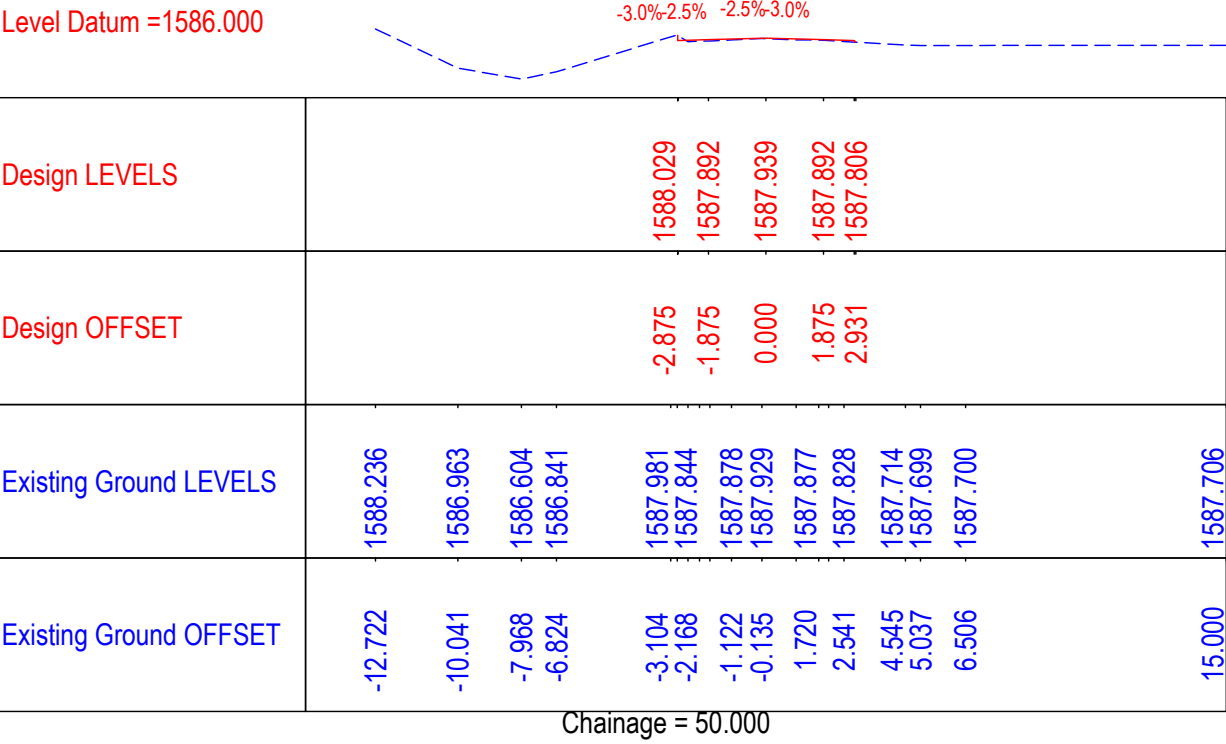
DESIGN CONSULTANT:

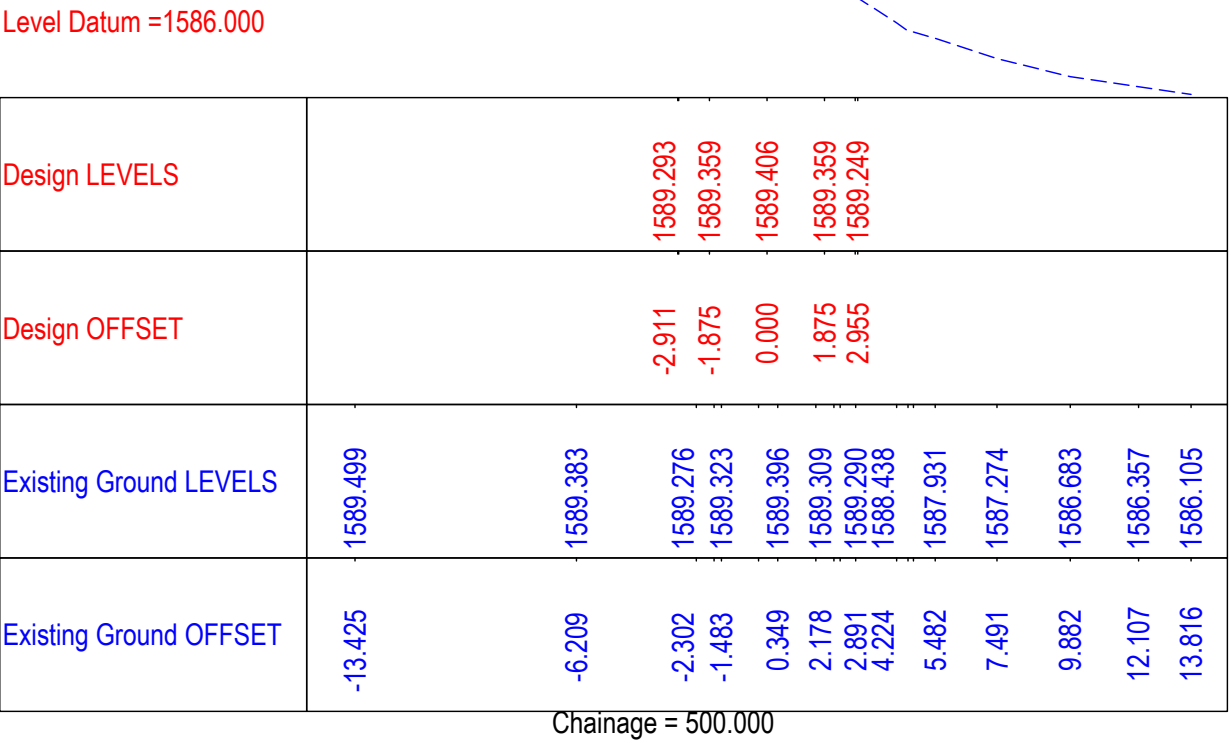
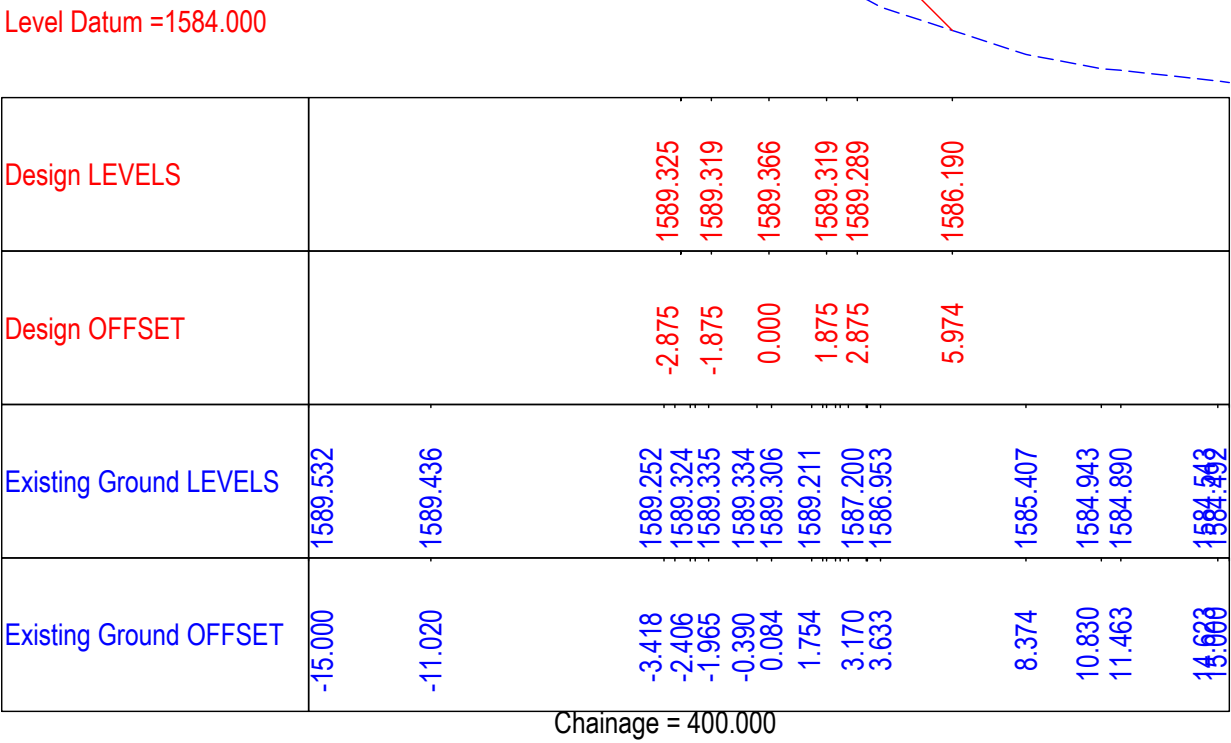
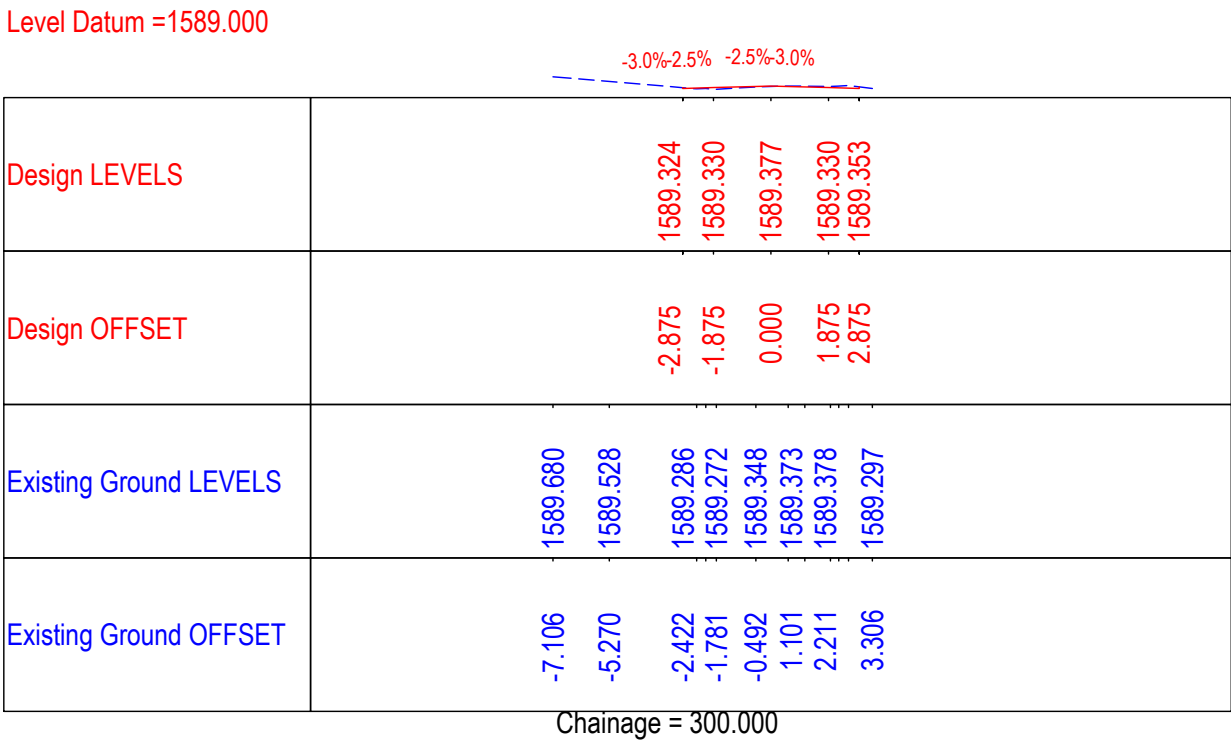
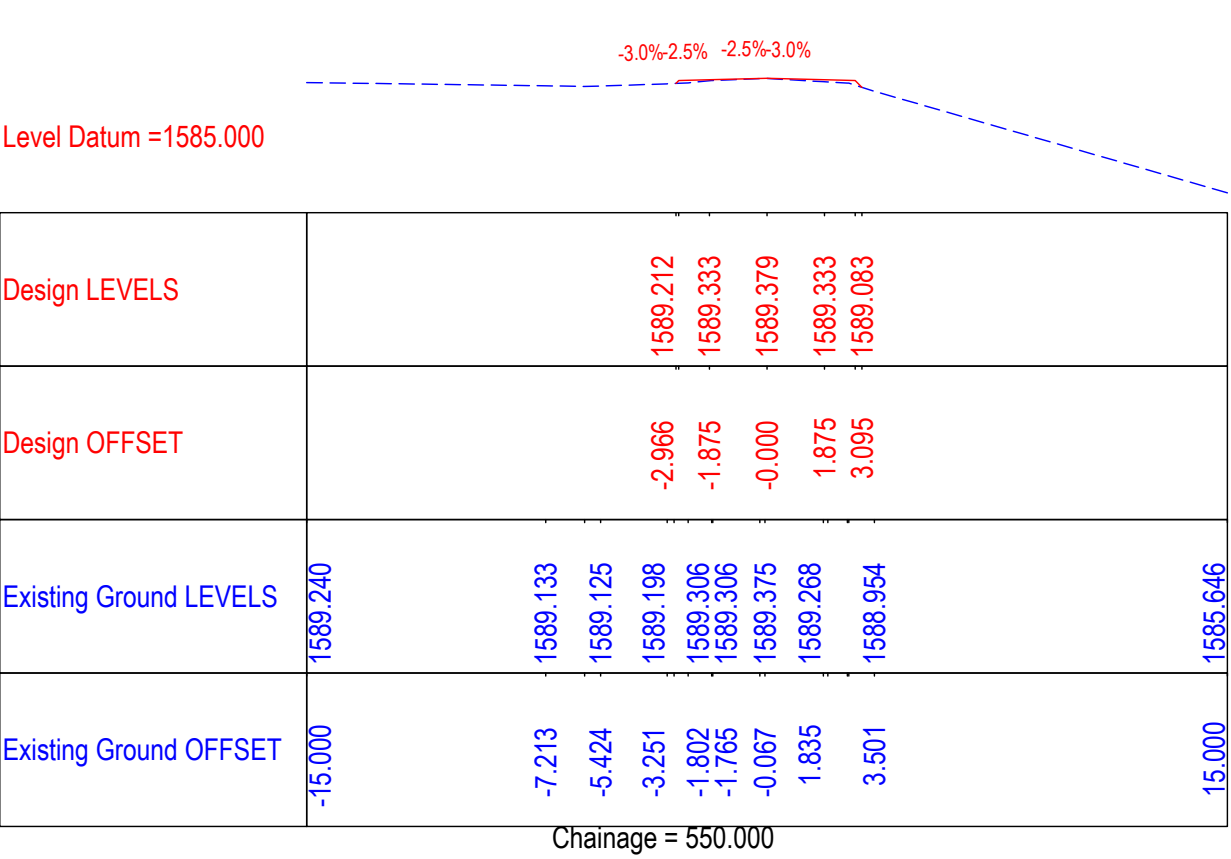
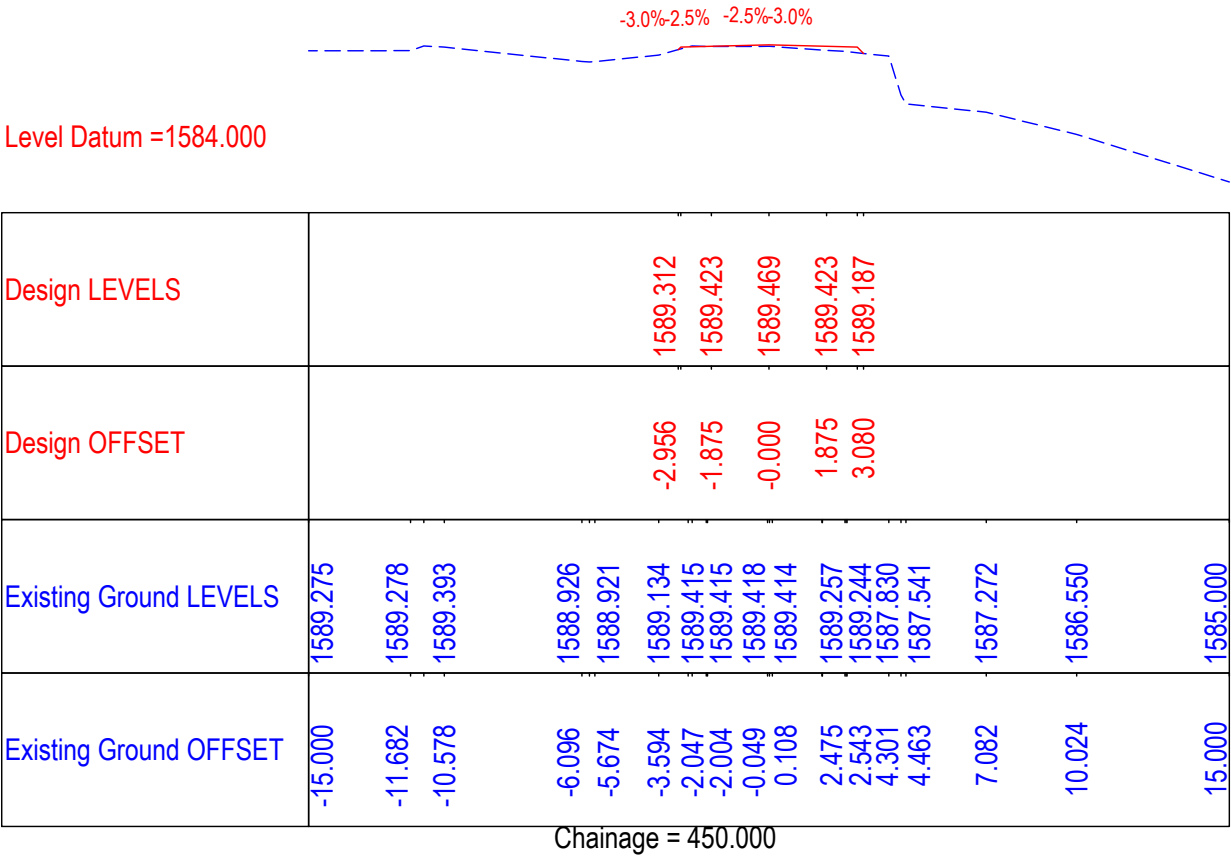
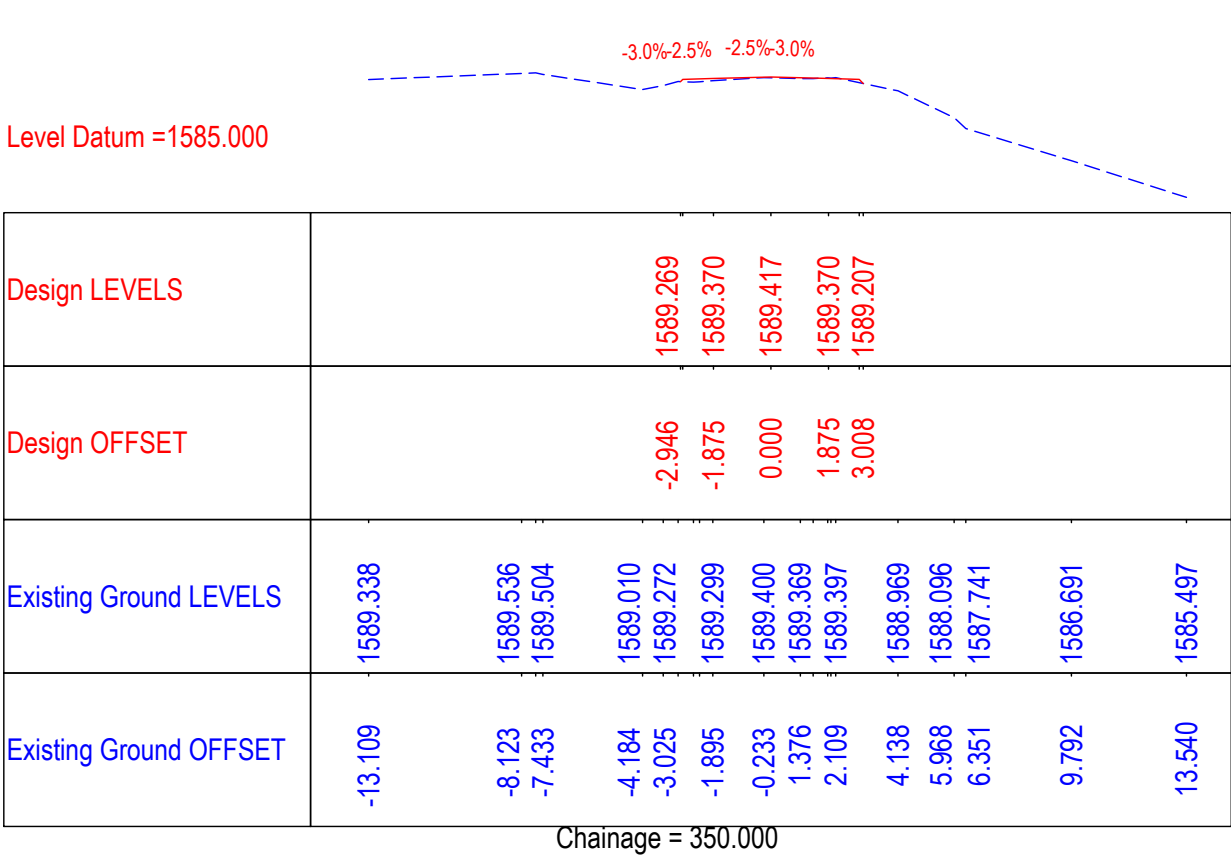


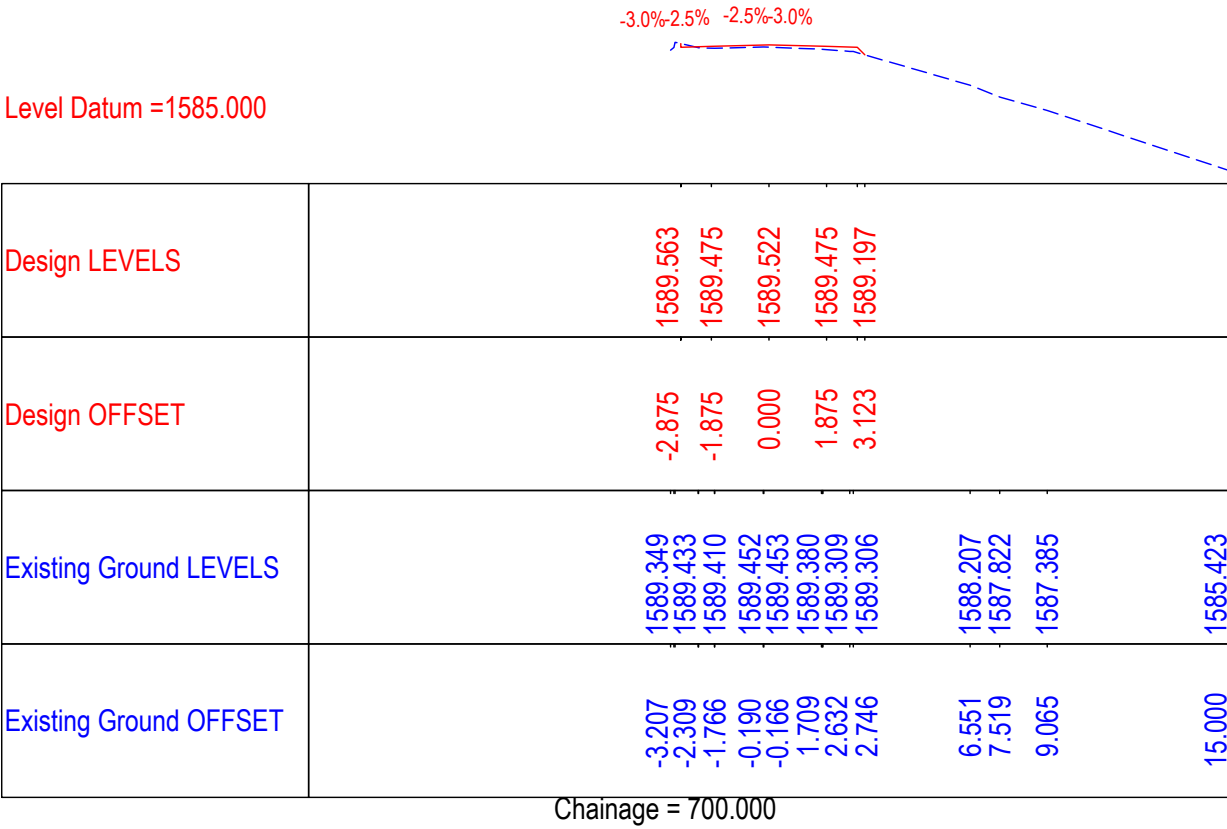
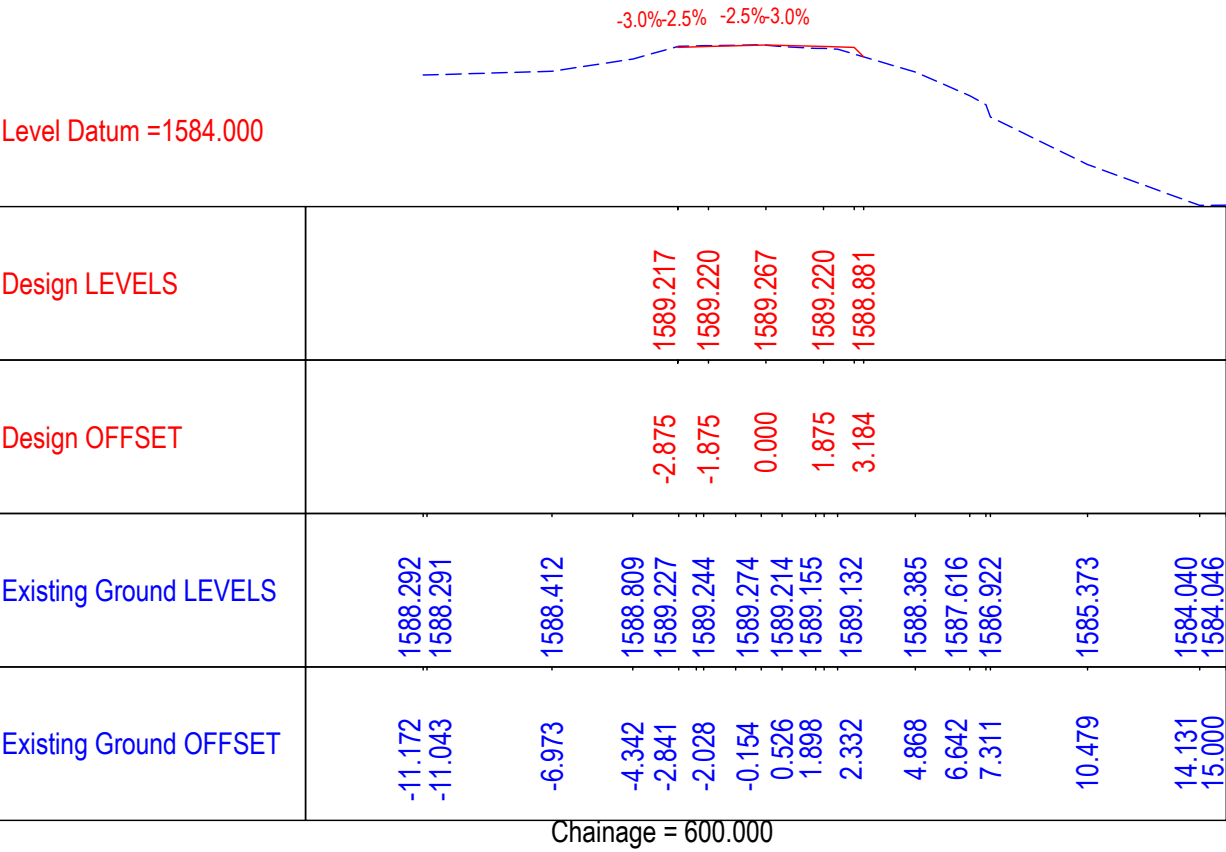
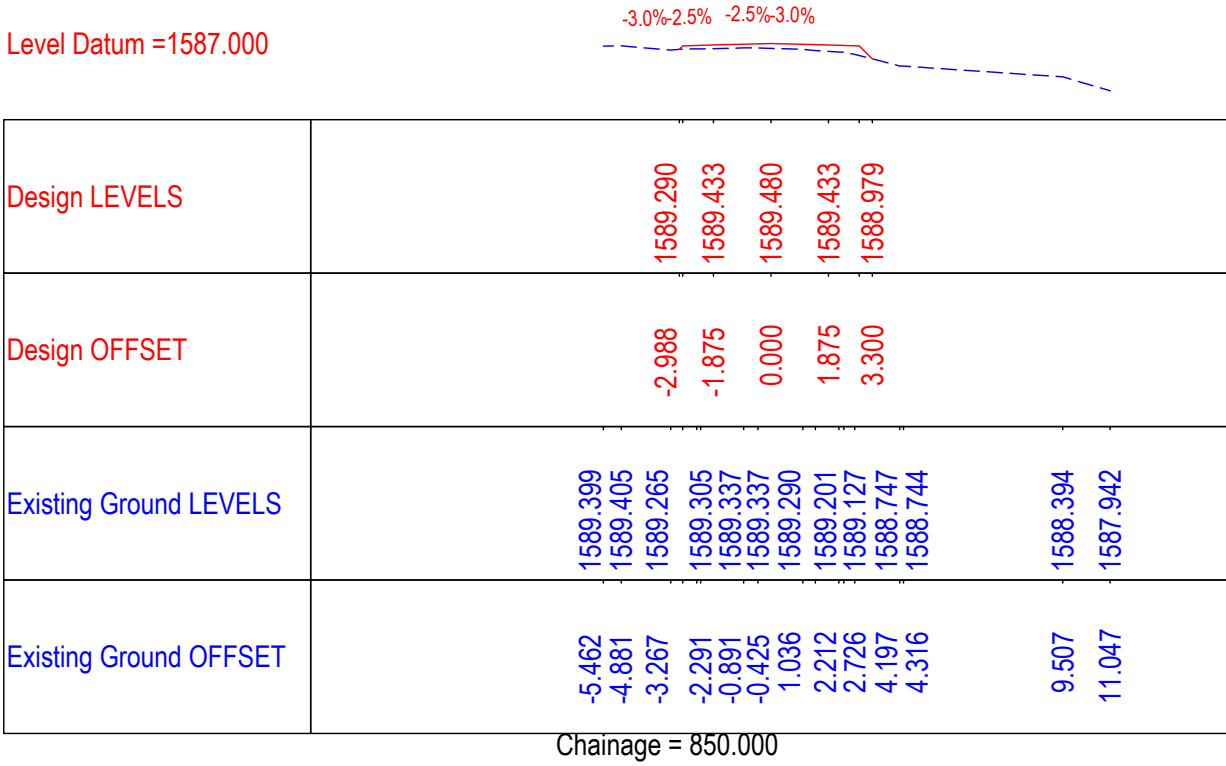
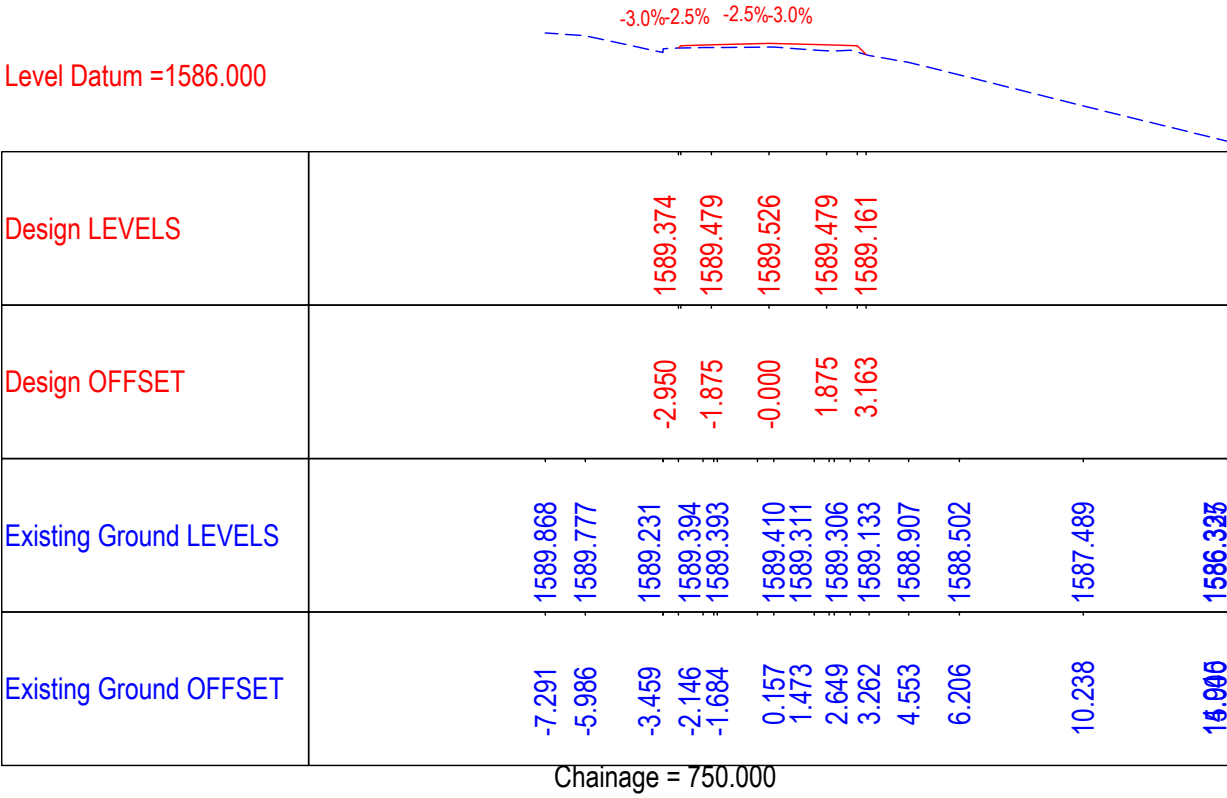
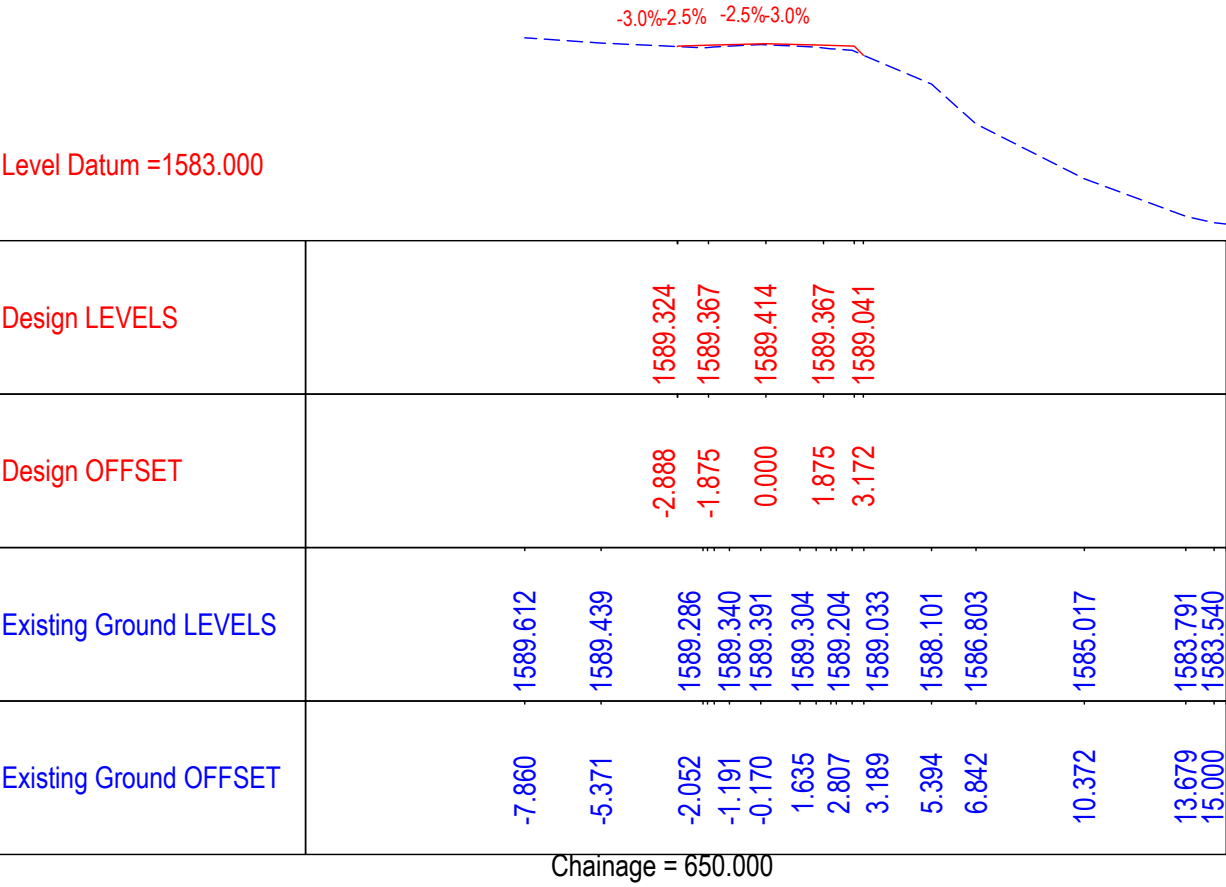
Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

			DRAWN BY : SD	TITLE : Detailed Cross Section (Main Line) (Ch.7+150 to Ch.7+343.168)
			DESIGNED BY : SCK/MM	
			APPROVED BY : KG	
			SCALE 1 : 250	
REV.	DATE	DESCRIPTION	SCALE 1 : 250	DRG. NO. : EPTISA/JTRFP/DPR/J&K/DCS/24
				REVISION : R-1
				September 2019

≡ DETAILED CROSS SECTION (FOR LINK ROAD NO.1) ≡







CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



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Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE	1 : 250

TITLE : Detailed Cross Section (Link Road) (Ch.0+600 to Ch.0+850)	
DRG. NO. : EPTISA/JTFRP/DPR/J&K/DCS/03	
REVISION : R-1	September 2019

-3.0% -2.5% -2.5% -3.0%

Chainage = 950.000

-3.0% -2.5% -2.5% -3.0%

Chainage = 900.000

-3.0%-2.5% -2.5%-3.0%

Chainage = 1050.000

-3.0%-2.5% -2.5%-3.0%

Chainage = 1000.000

-3.0%-2.5% -2.5%-3.0%

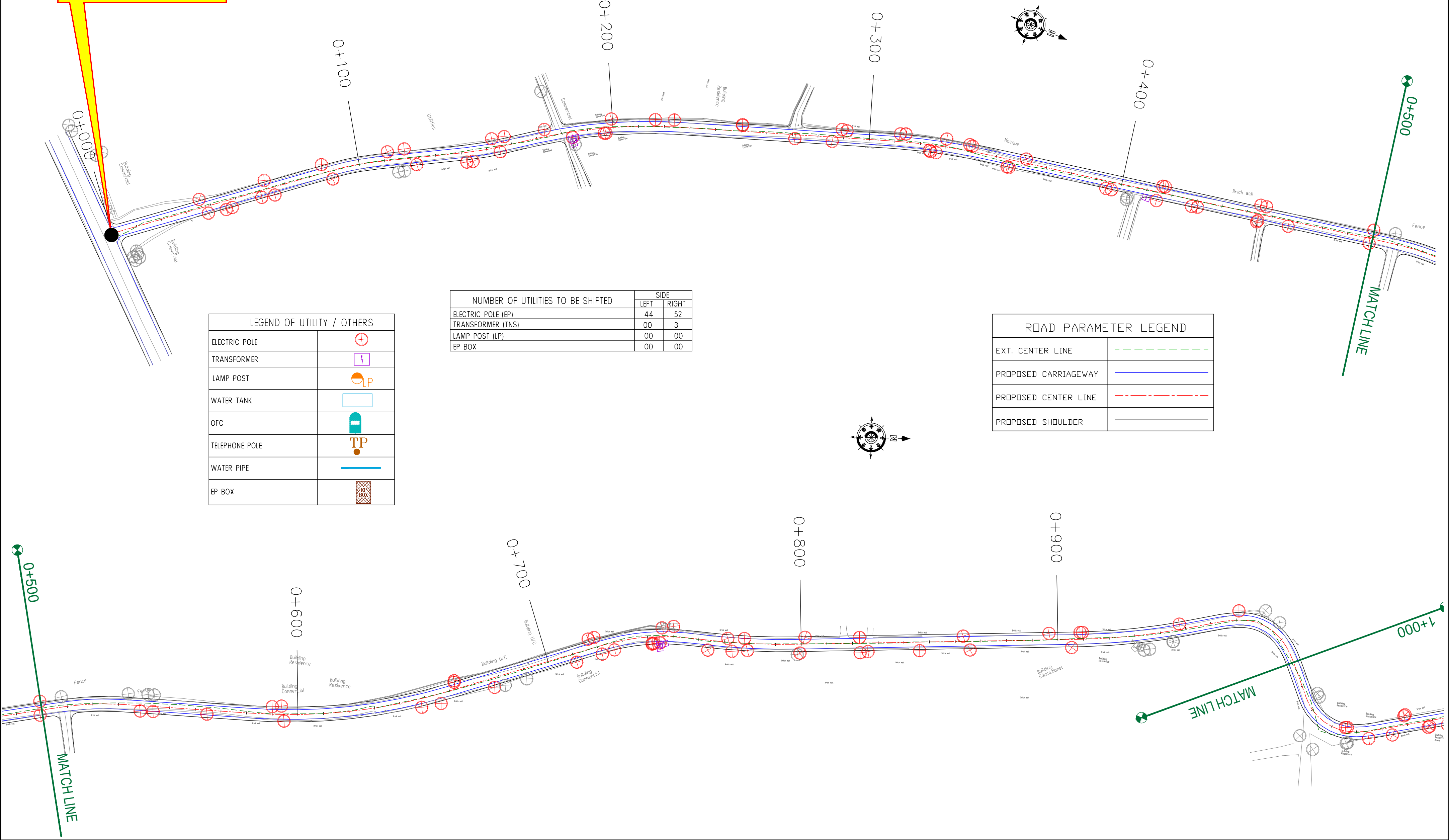
Chainage = 1053.268

ep*t*isa

September 2019

≡ UTILITY RELOCATION PLAN FOR MAIN ROAD (ELECTRICITY DEPARTMENT) ≡

Start of Project Road



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	44	52
TRANSFORMER (TNS)	00	3
LAMP POST (LP)	00	00
EP BOX	00	00

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:

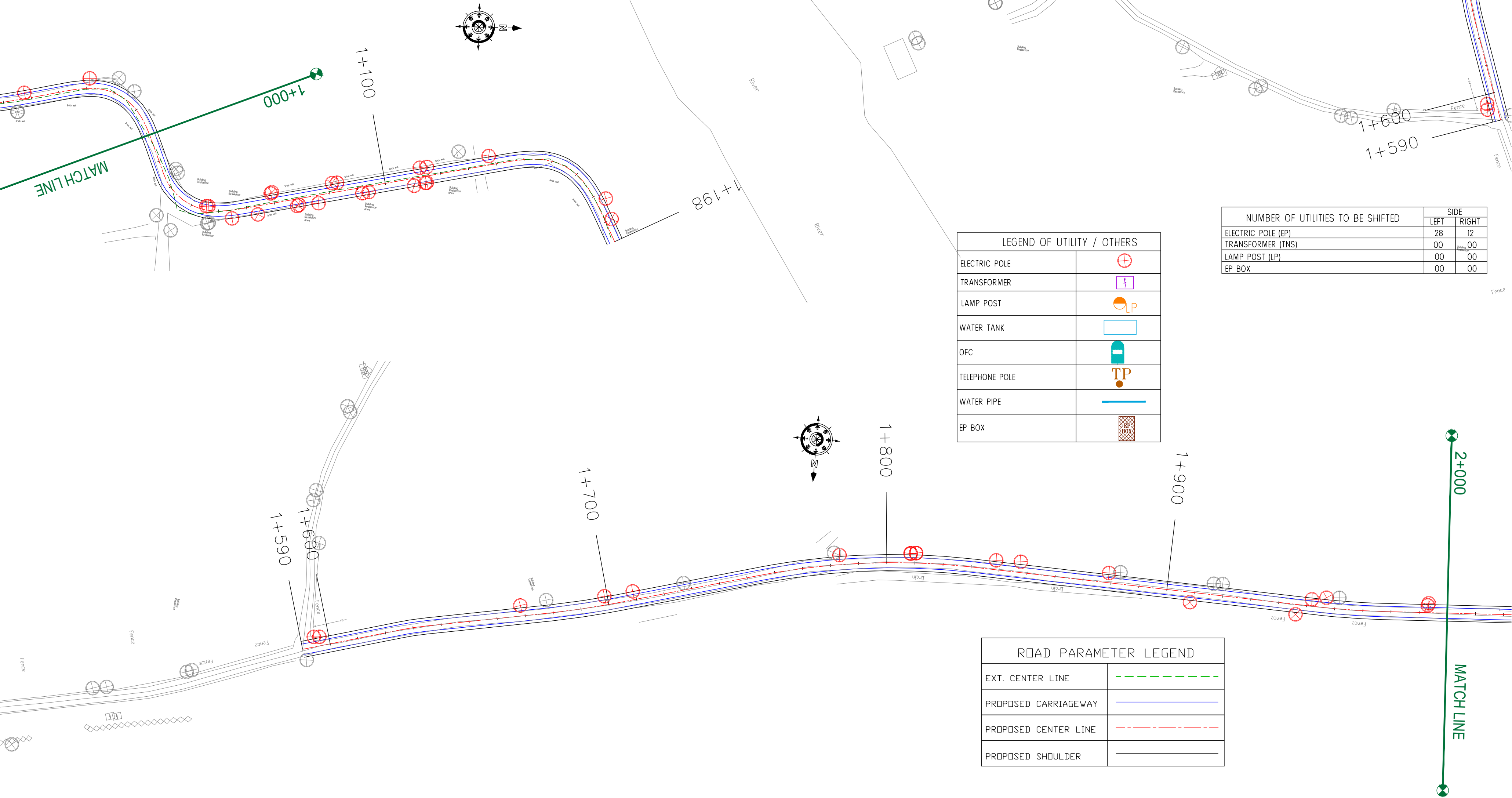


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Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 0+000 to Ch. 1+000)	
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/01	
REVISION : R-1	September 2019	



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	28	12
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	00

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
***(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)***

DESIGN CONSULTANT:

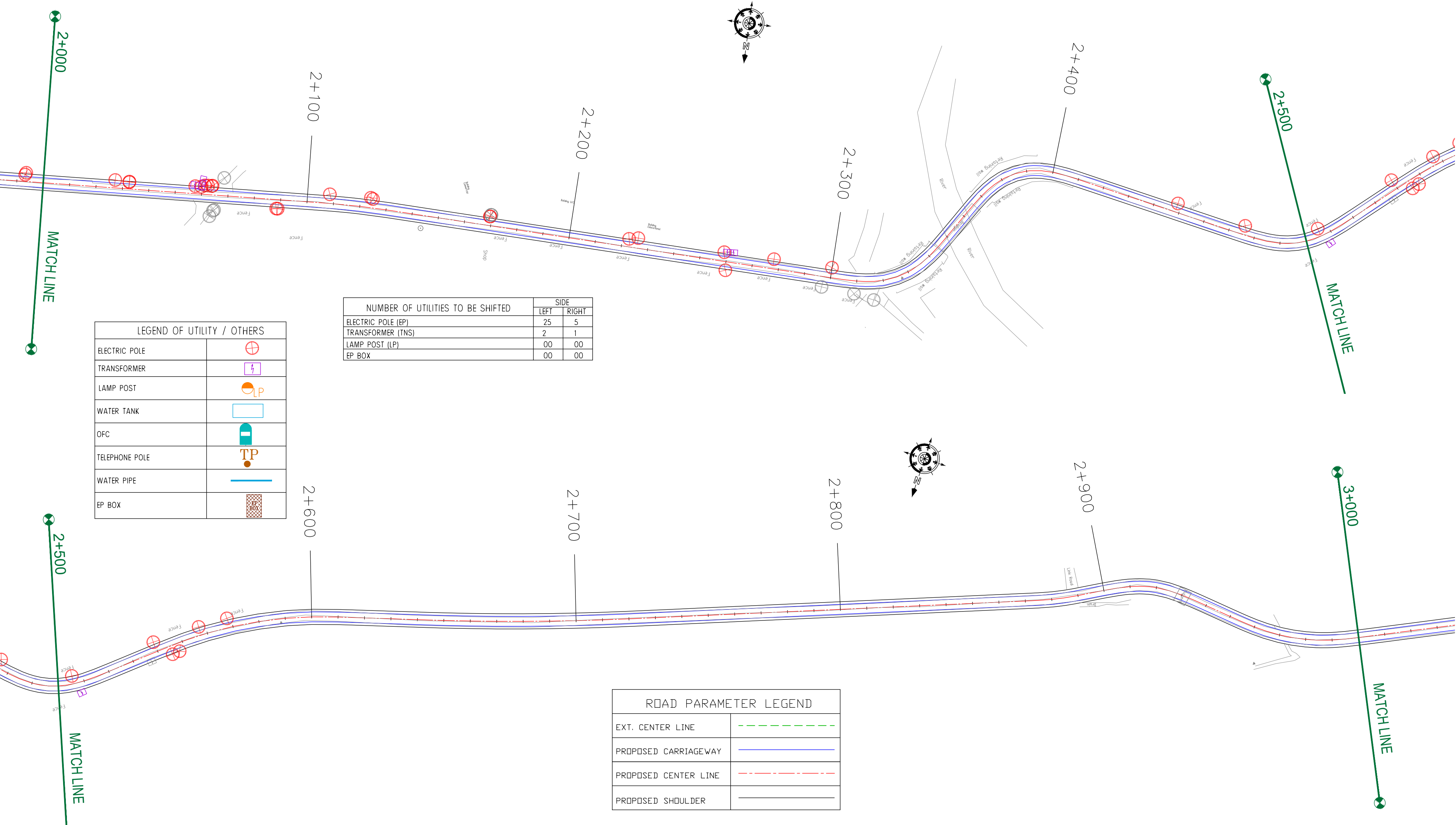


Servicios de Ingenieria S.L.
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Corporate Park, Plot No. 2, Block EP & GP,
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West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 1+000 to Ch. 2+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/02
REVISION : R-1	September 2019



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:

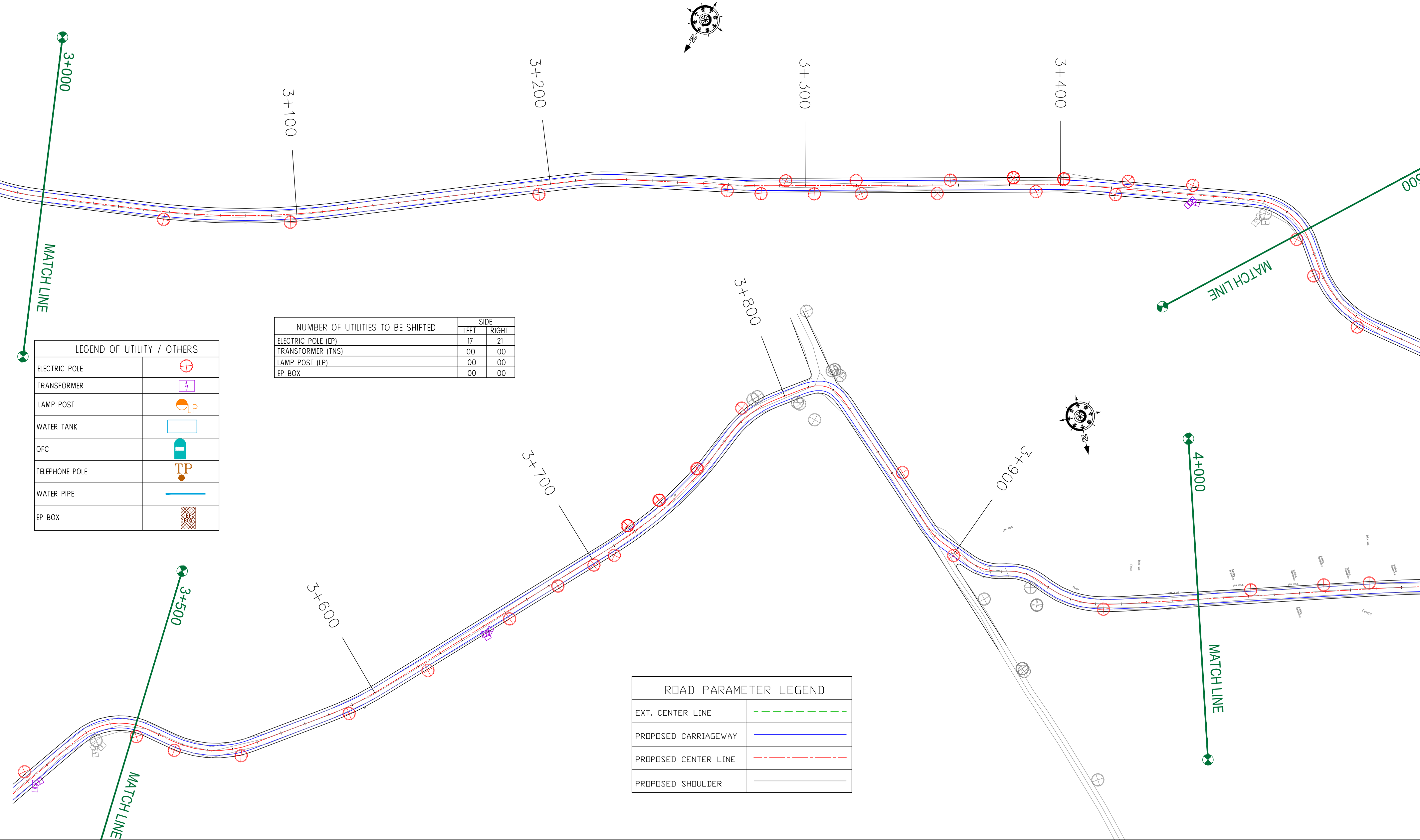


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Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 2+000 to Ch. 3+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/03
REVISION : R-1	September 2019



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	17	21
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	00

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :




Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:

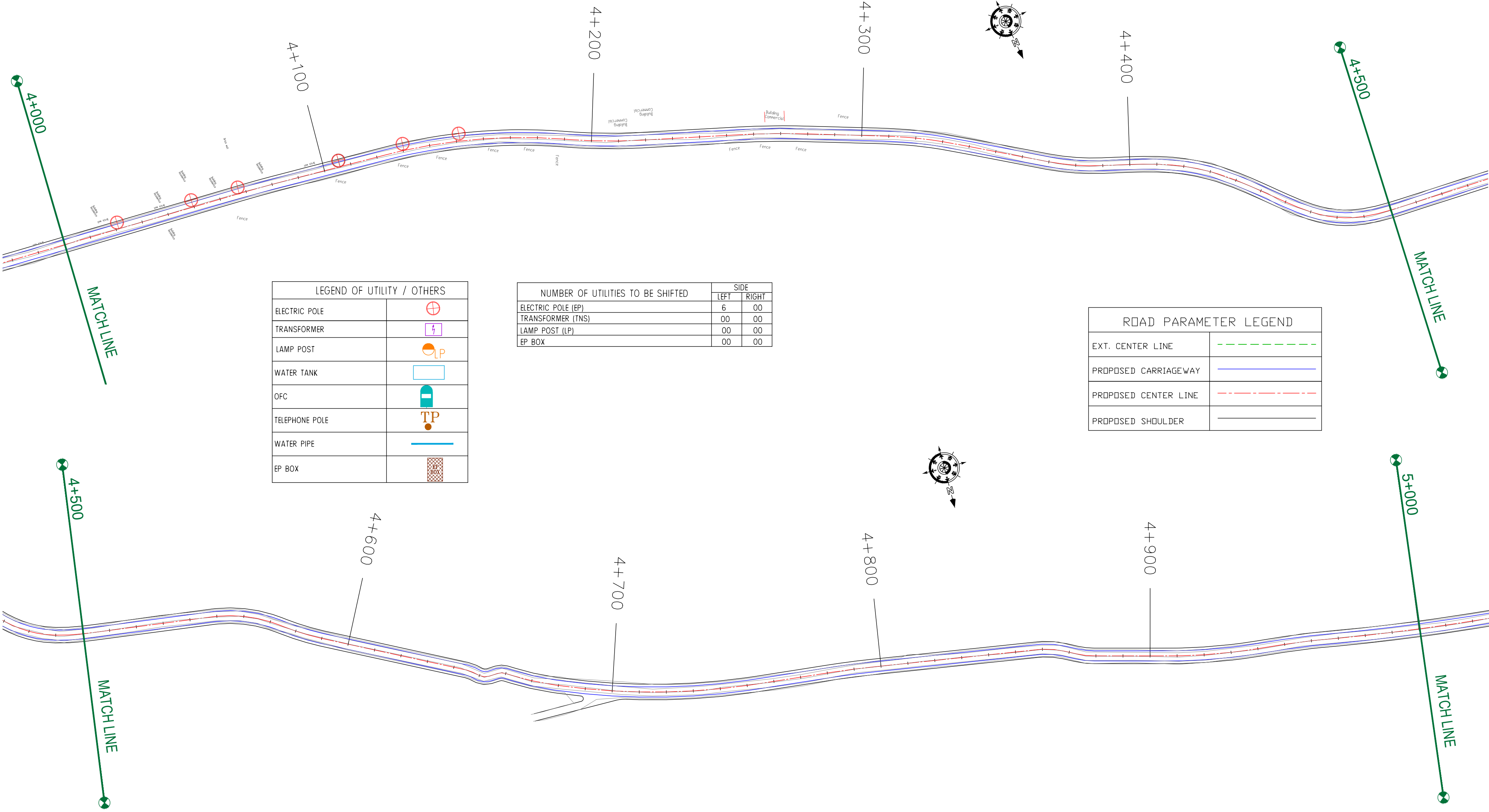


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West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 3+000 to Ch. 4+000)	
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/04	
REVISION : R-1	September 2019	



LEGEND OF UTILITY / OTHERS		
ELECTRIC POLE		
TRANSFORMER		
LAMP POST		
WATER TANK		
OFC		
TELEPHONE POLE		
WATER PIPE		
EP BOX		

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	6	00
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	00

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	00	00
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	00

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT : 
Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

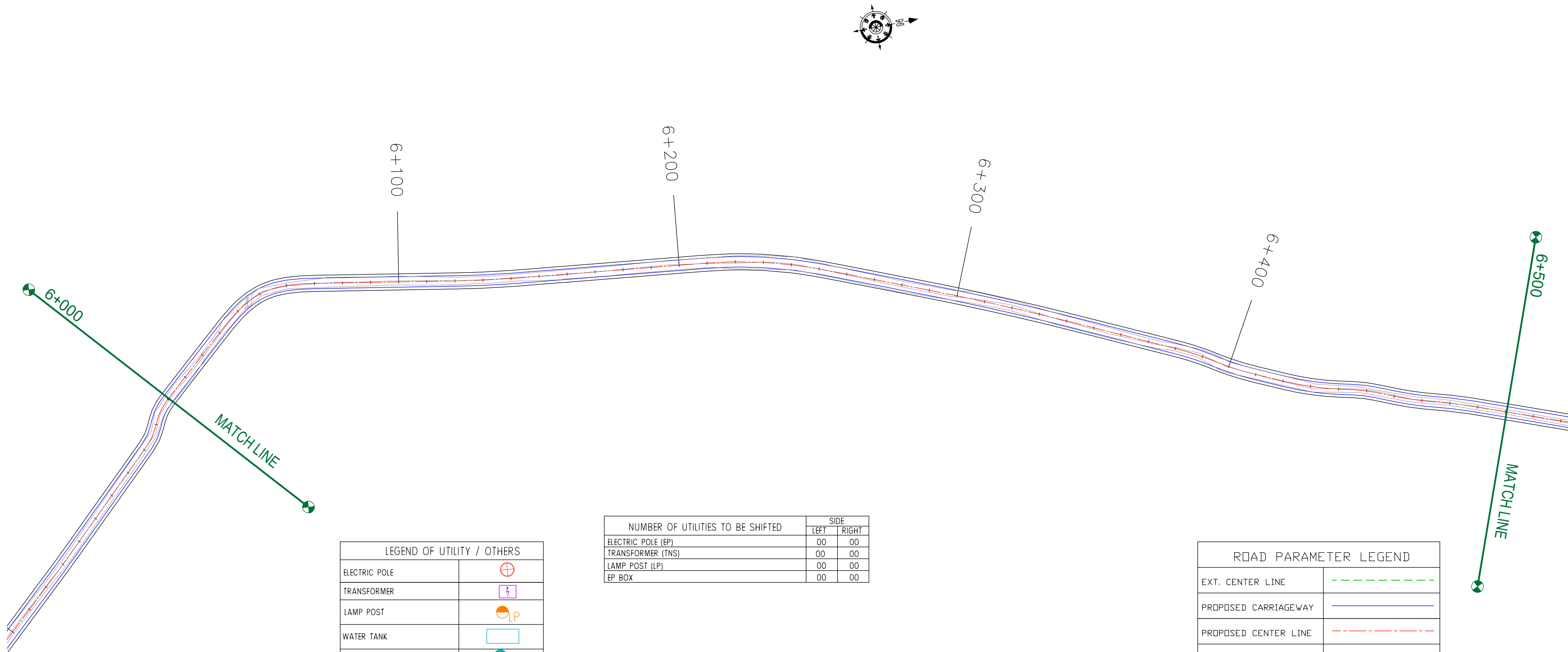
PROJECT :
Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:
 **Servicios de Ingenieria S.L.**
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 5+000 to Ch. 6+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/06
REVISION : R-1	September 2019



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	00	00
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	00

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
***(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)***

DESIGN CONSULTANT:



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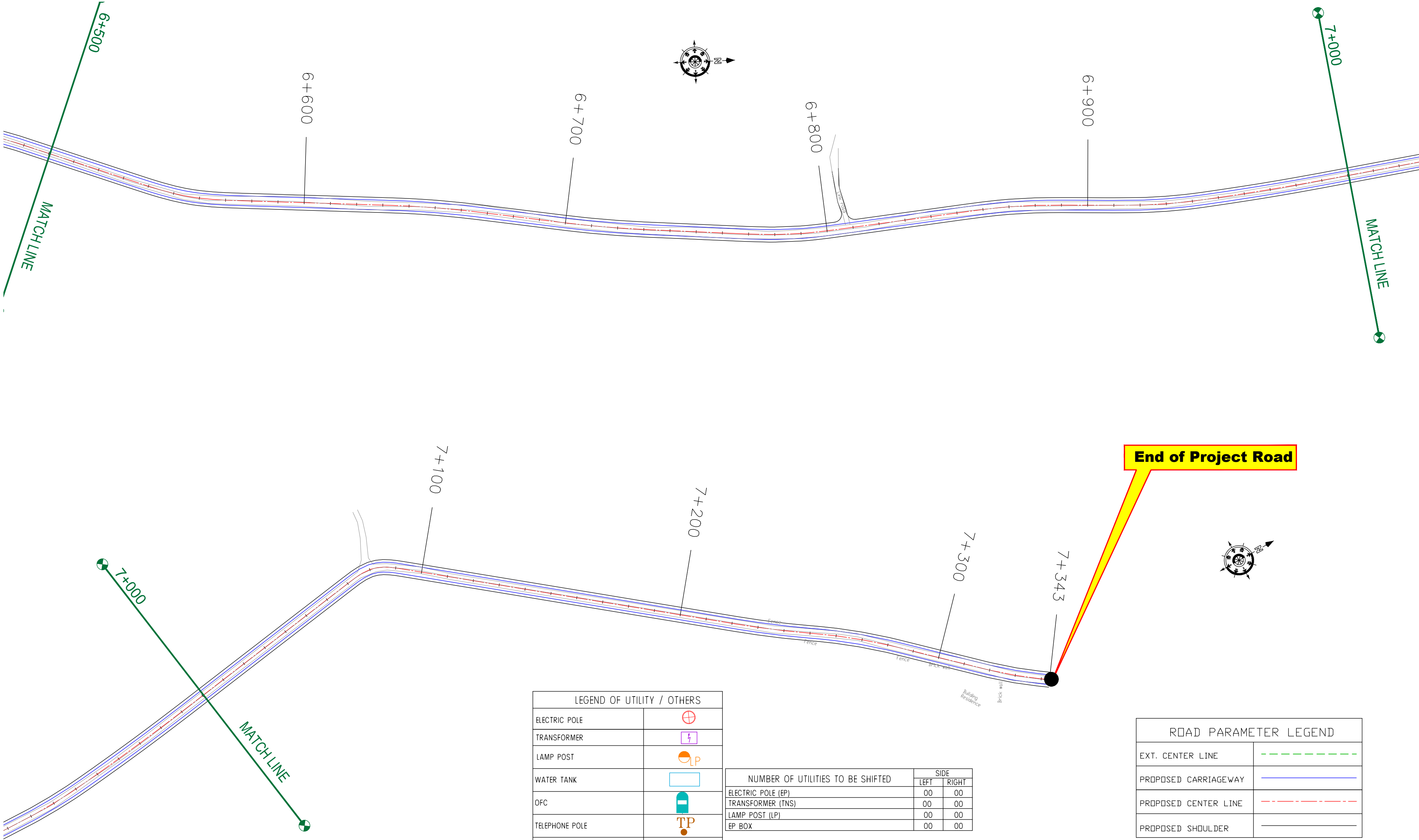
REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Electricity Department) (Ch. 6+000 to Ch. 6+500)	
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/URP/07	
REVISION : R-1	September 2019	

← Bijbehera

Karihama National Highway via Kitriteng →



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	00	00
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	00

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



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REV.	DATE	DESCRIPTION
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DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :

Utility Relocation Plan
(For Electricity Department)
(Ch. 6+500 to Ch. 7+343)

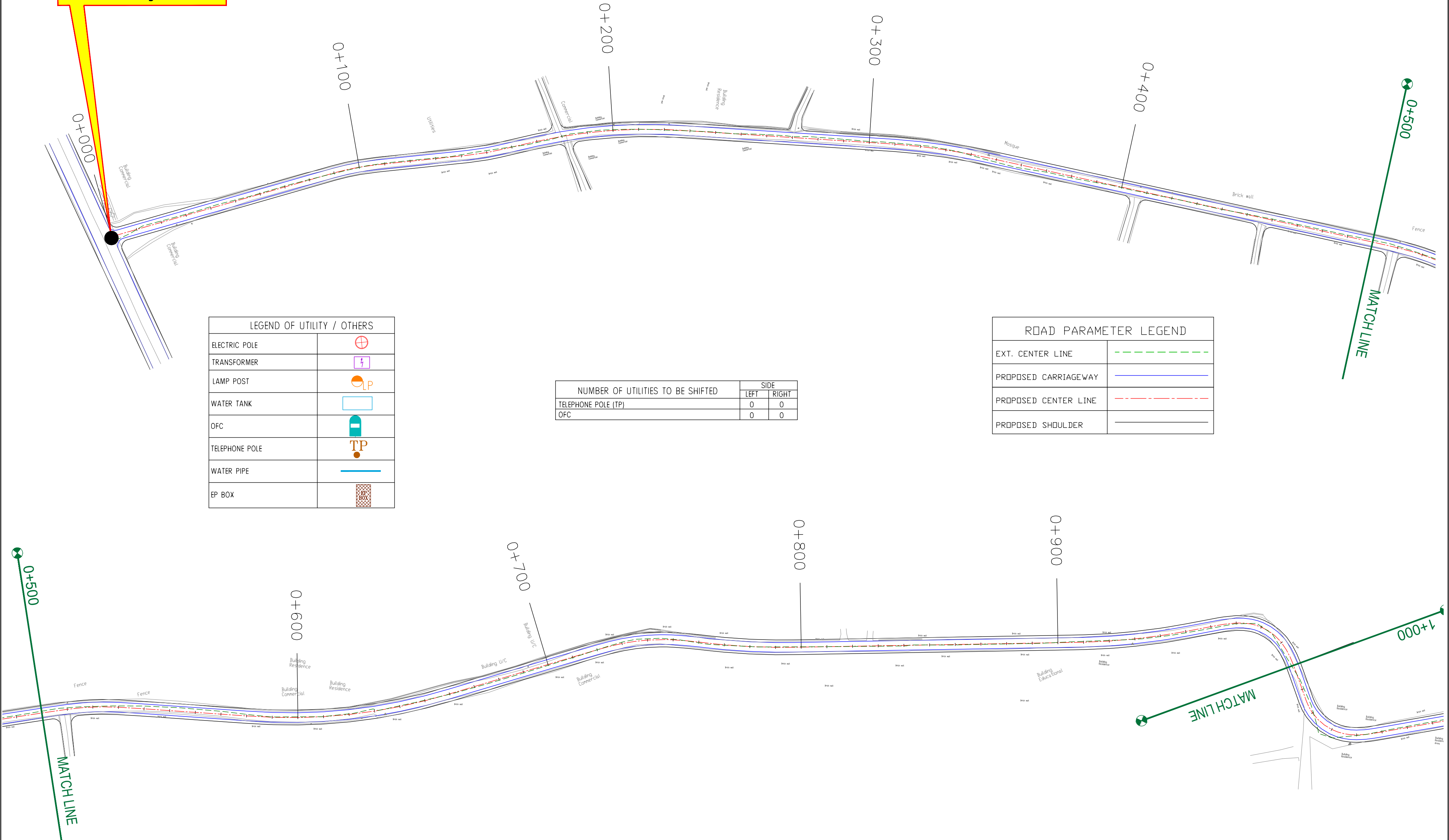
DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/08

REVISION : R-1

September 2019

≡ UTILITY RELOCATION PLAN FOR MAIN ROAD (TELEPHONE DEPARTMENT) ≡

Start of Project Road



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	0
OFC	0	0

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :



Jhelum & Tawi
FLOOD RECOVERY PROJECT

Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
***(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)***

DESIGN CONSULTANT:

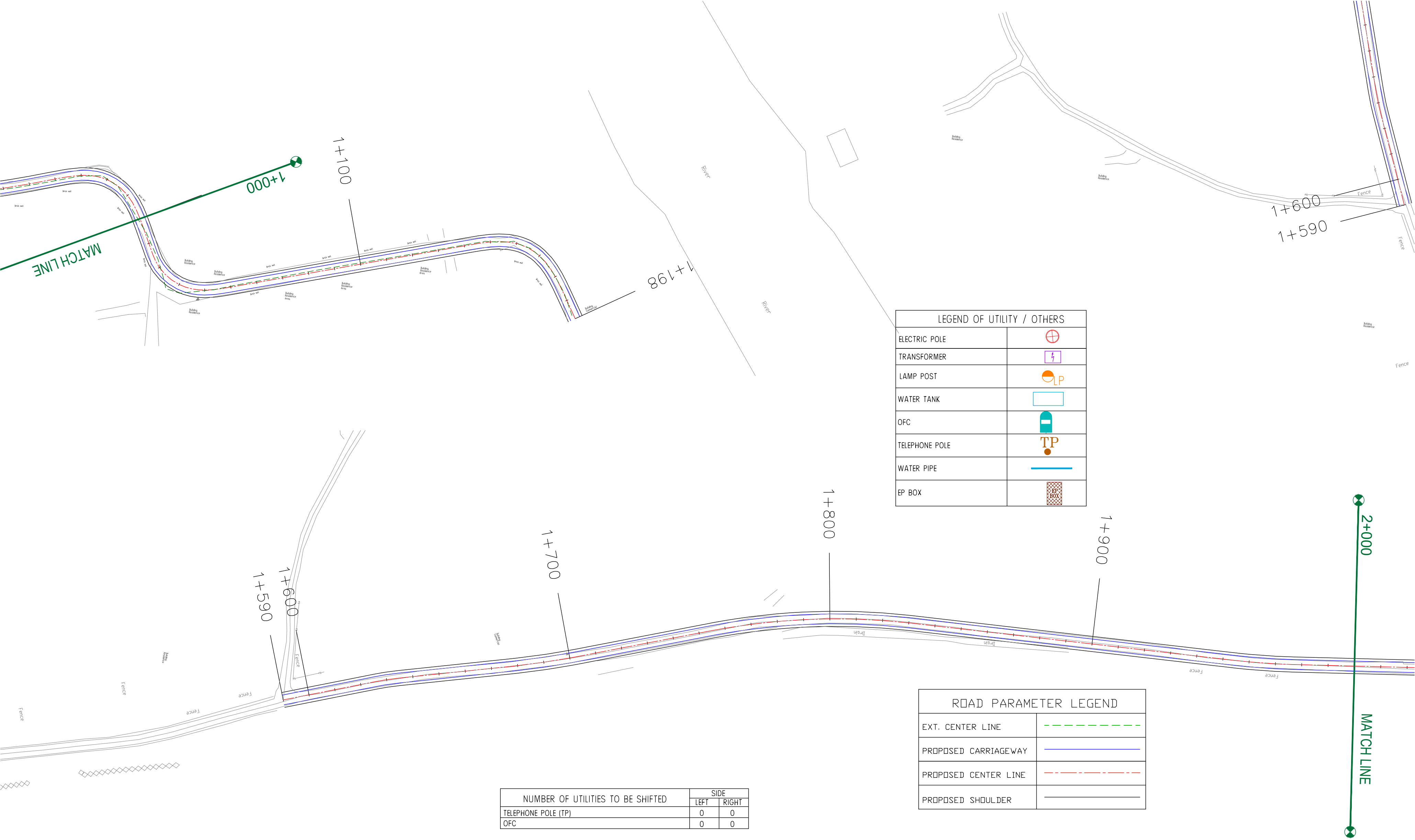


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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Telephone Department) (Ch. 0+000 to Ch. 1+000)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/URP/01
REVISION : R-1	September 2019



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:

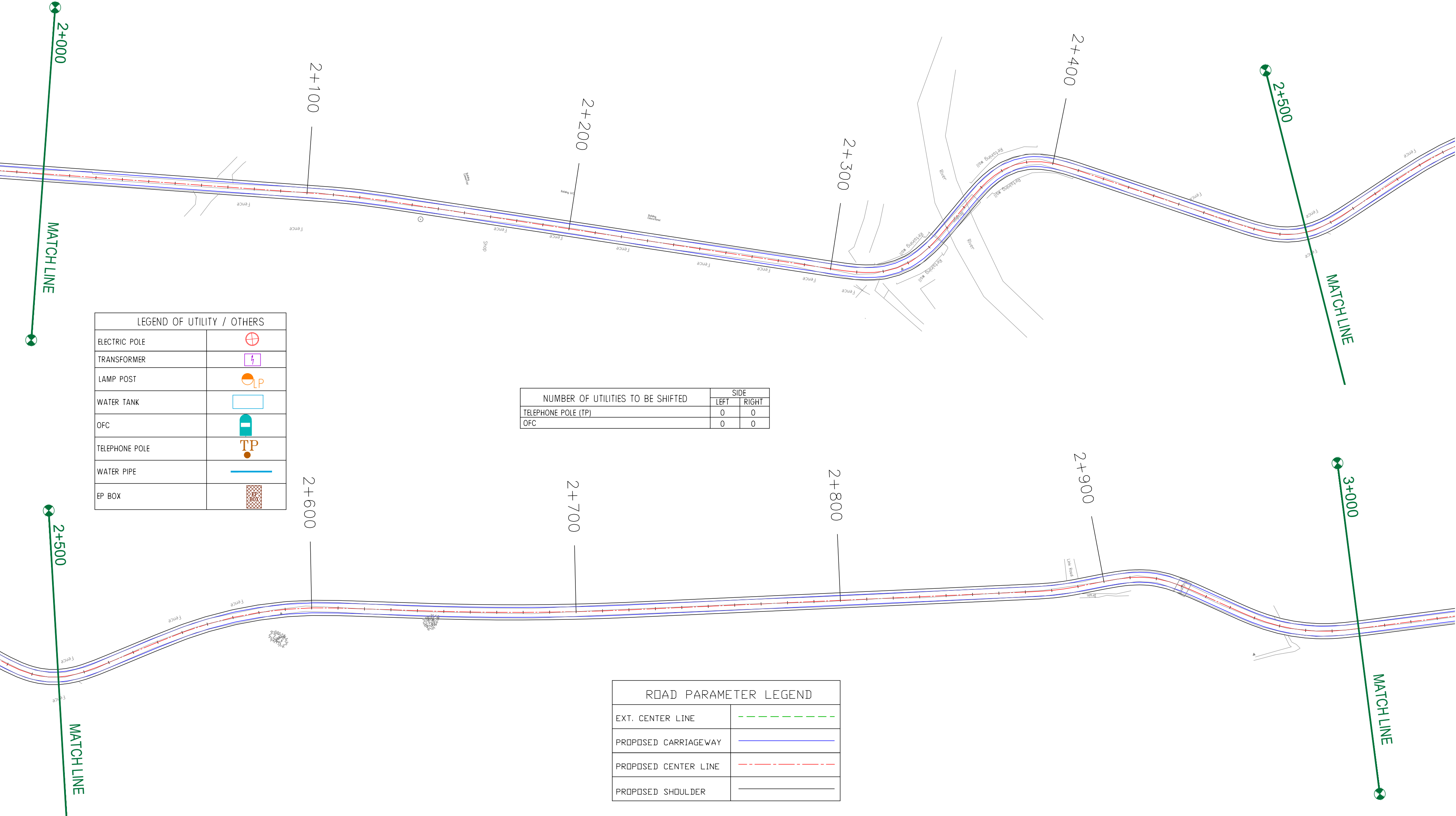


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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Telephone Department) (Ch. 1+000 to Ch. 2+000)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/URP/02
REVISION : R-1	September 2019



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:

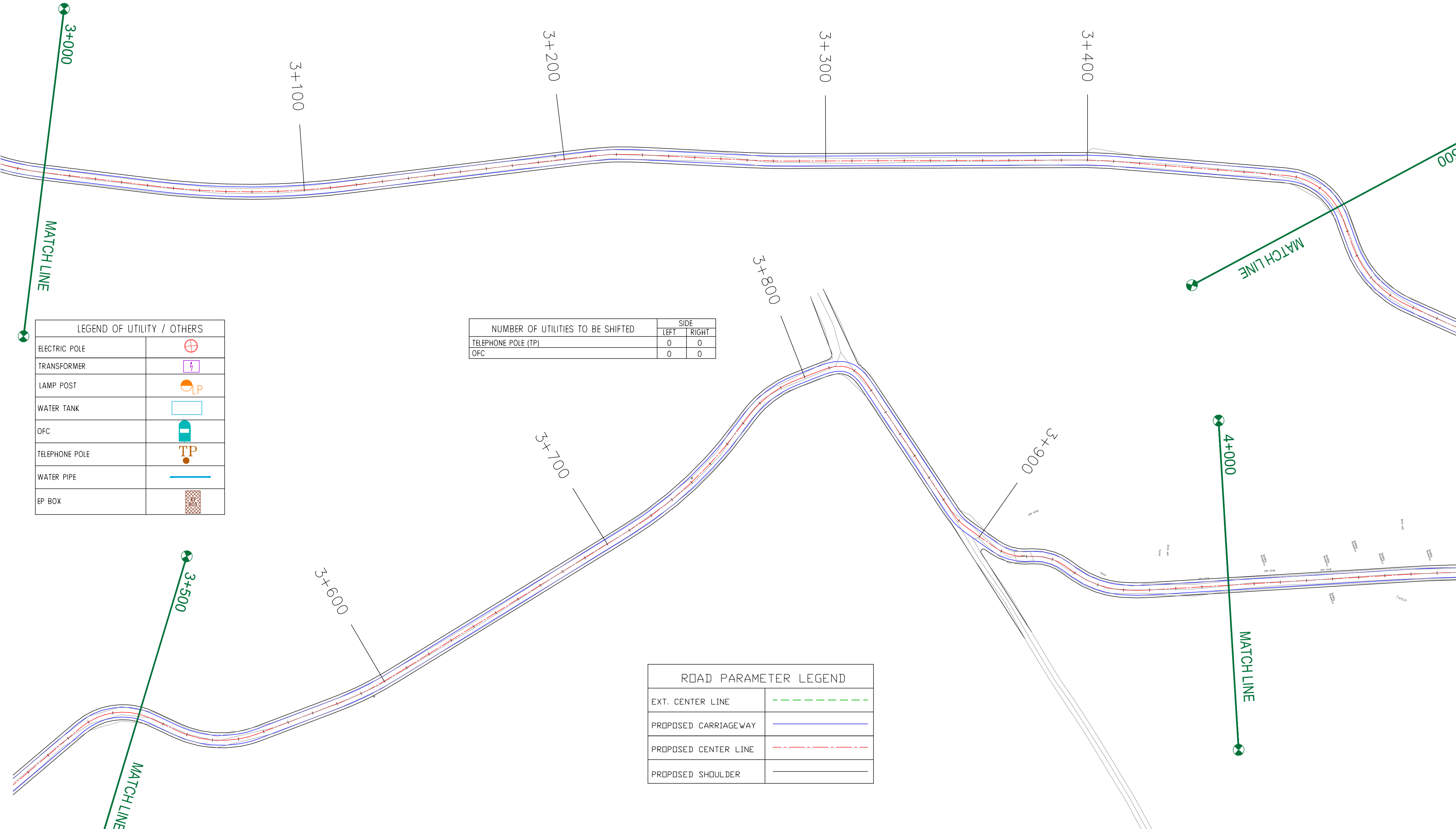


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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Telephone Department) (Ch. 2+000 to Ch. 3+000)
DRG. NO. :	EPTISA/JTRP/DPR/J&K/URP/03
REVISION : R-1	September 2019



CLIENT :



Jhelum & Tawi
FLOOD RECOVERY PROJECT

Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
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DESIGN CONSULTANT:

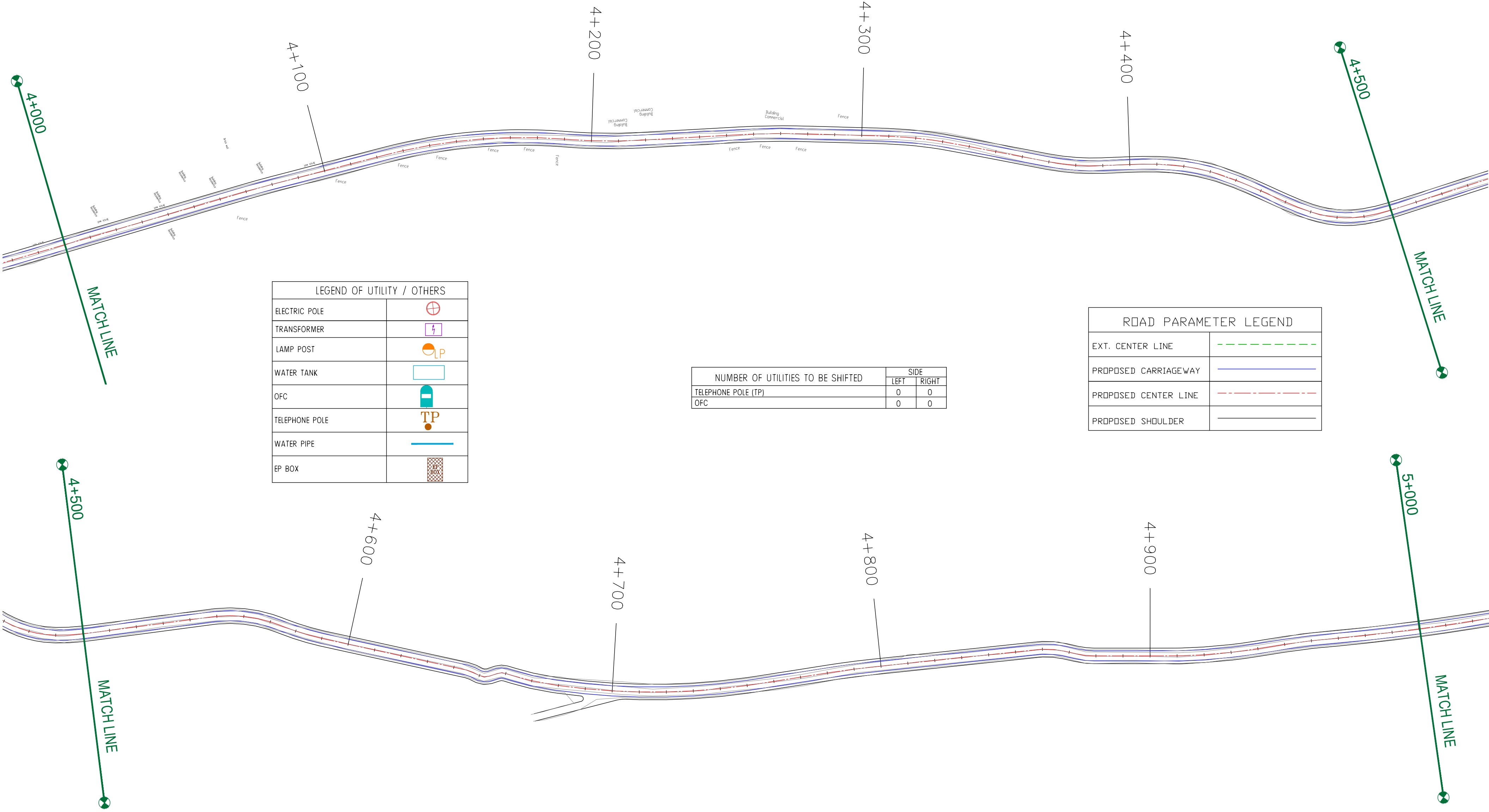


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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Telephone Department) (Ch. 3+000 to Ch. 4+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/04
REVISION : R-1	September 2019



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	0
OFC	0	0

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	0
OFC	0	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:

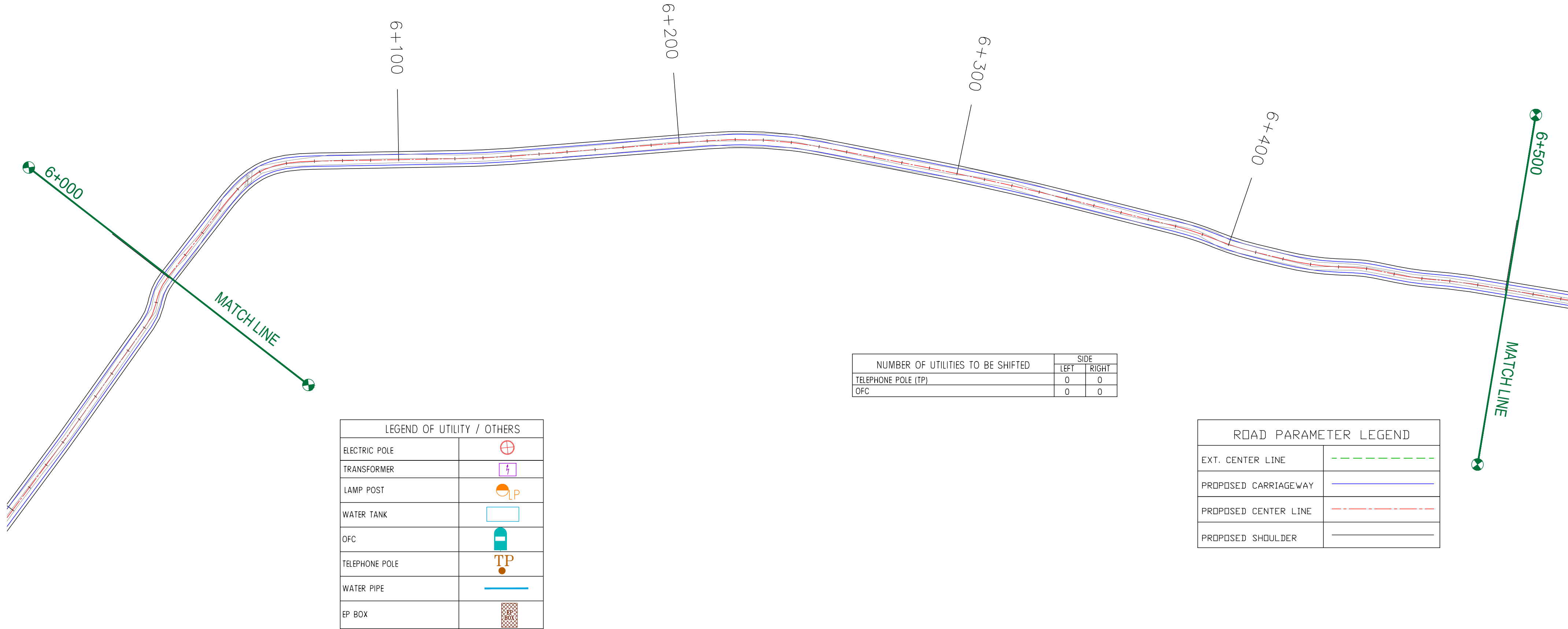


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REV.	DATE	DESCRIPTION

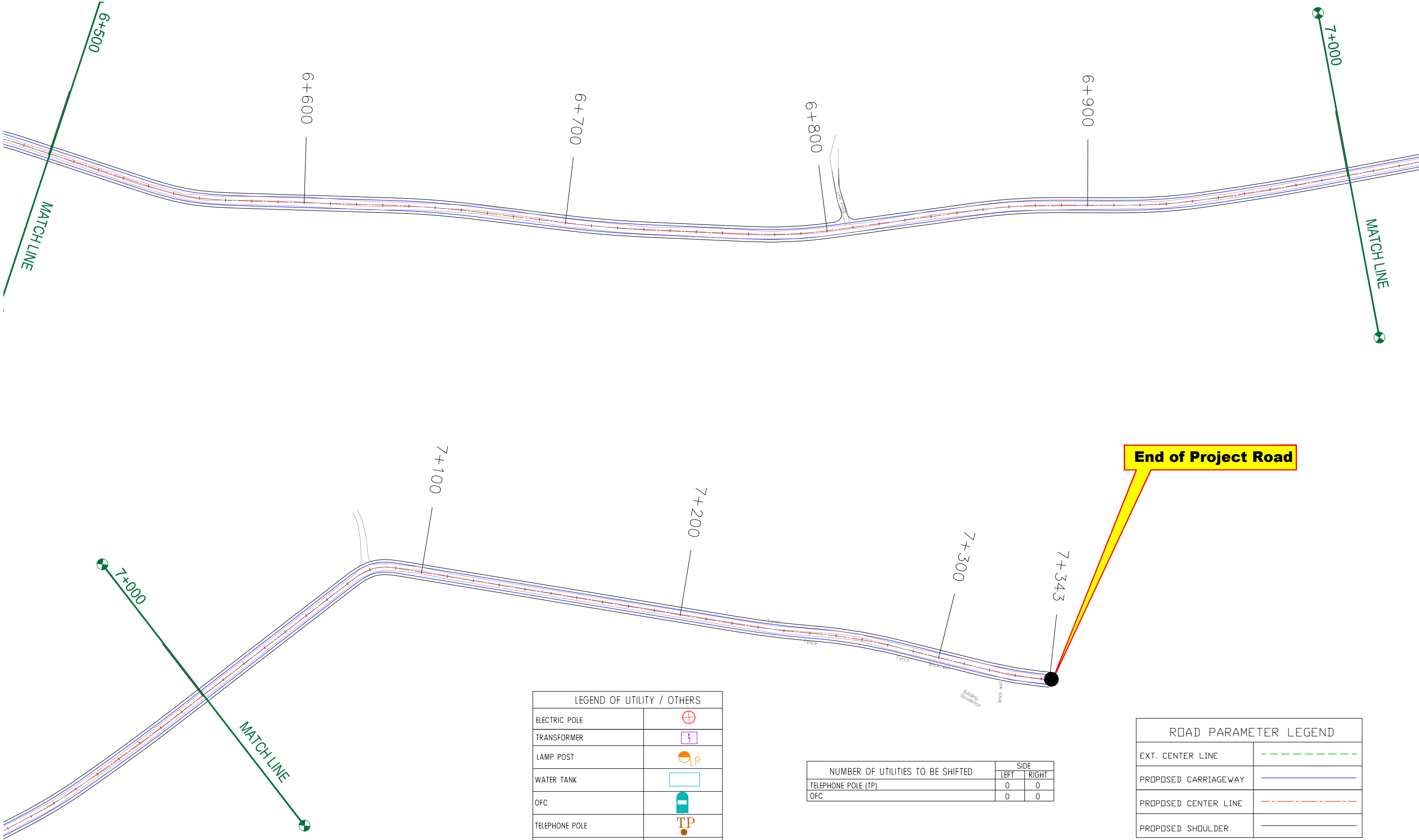
DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Telephone Department) (Ch. 5+000 to Ch. 6+000)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/URP/06
REVISION : R-1	September 2019



← Bijbehera

Karihama National Highway via Kitriteng →



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	0
OFC	0	0

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



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Sector v, Salt Lake Kolkata - 700091,
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REV.	DATE	DESCRIPTION
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DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

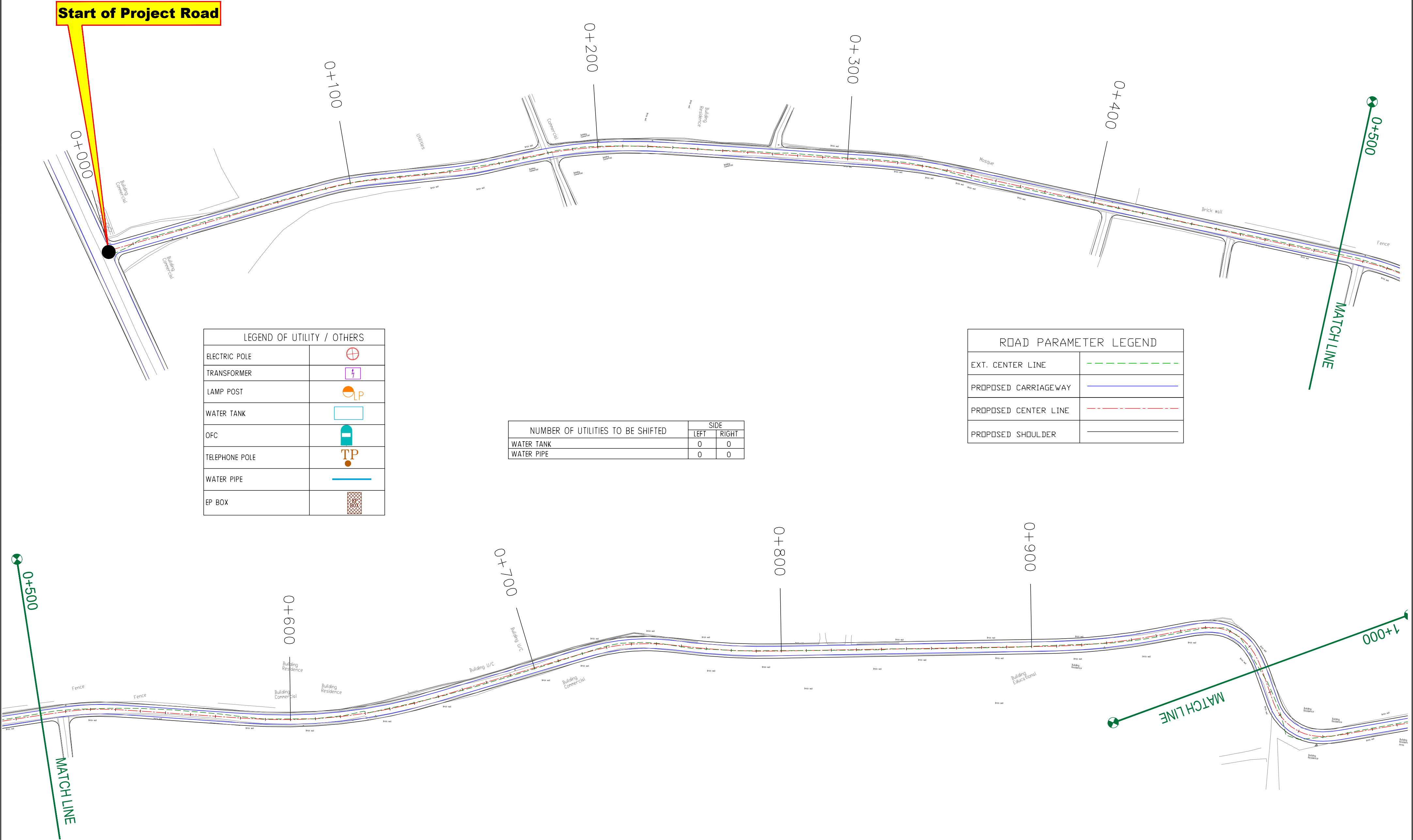
TITLE : **Utility Relocation Plan
(For Telephone Department)**
(Ch. 6+500 to Ch. 7+343)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/08

REVISION : R-1

September 2019

≡ UTILITY RELOCATION PLAN FOR MAIN ROAD (WATER DEPARTMENT) ≡



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



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Sector v, Salt Lake Kolkata - 700091,
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REV.	DATE	DESCRIPTION

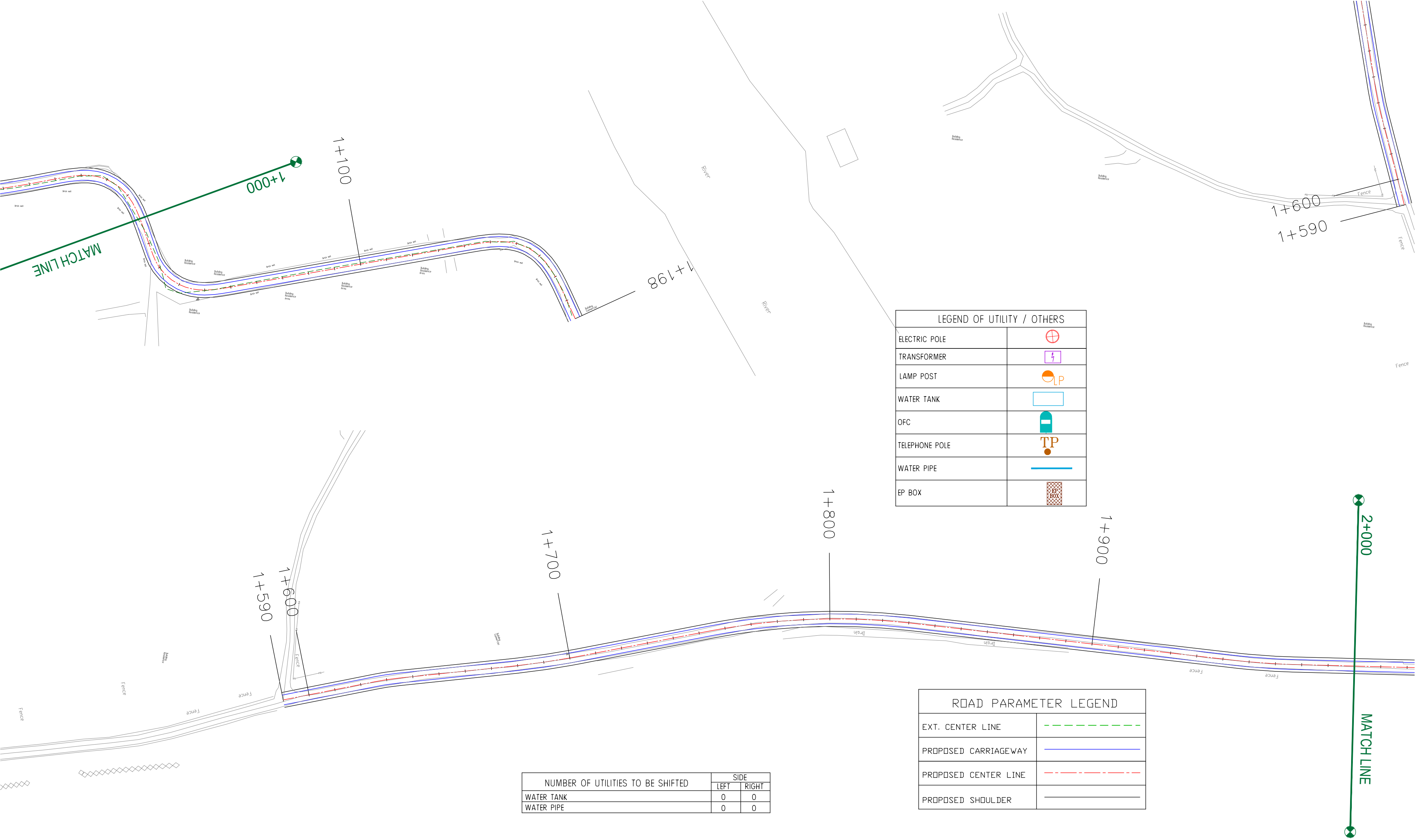
DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE : **Utility Relocation Plan
(For Water Department)**
(Ch. 0+000 to Ch. 1+000)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/01

REVISION : R-1

September 2019



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:

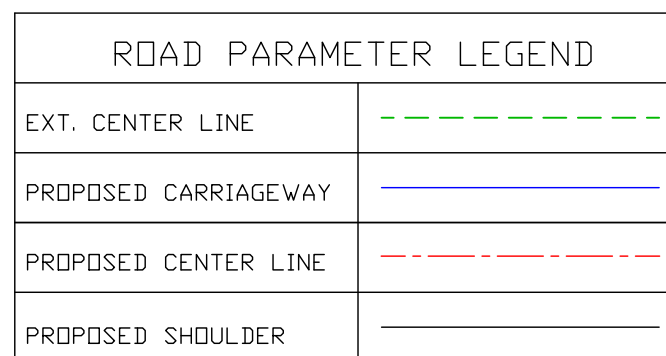


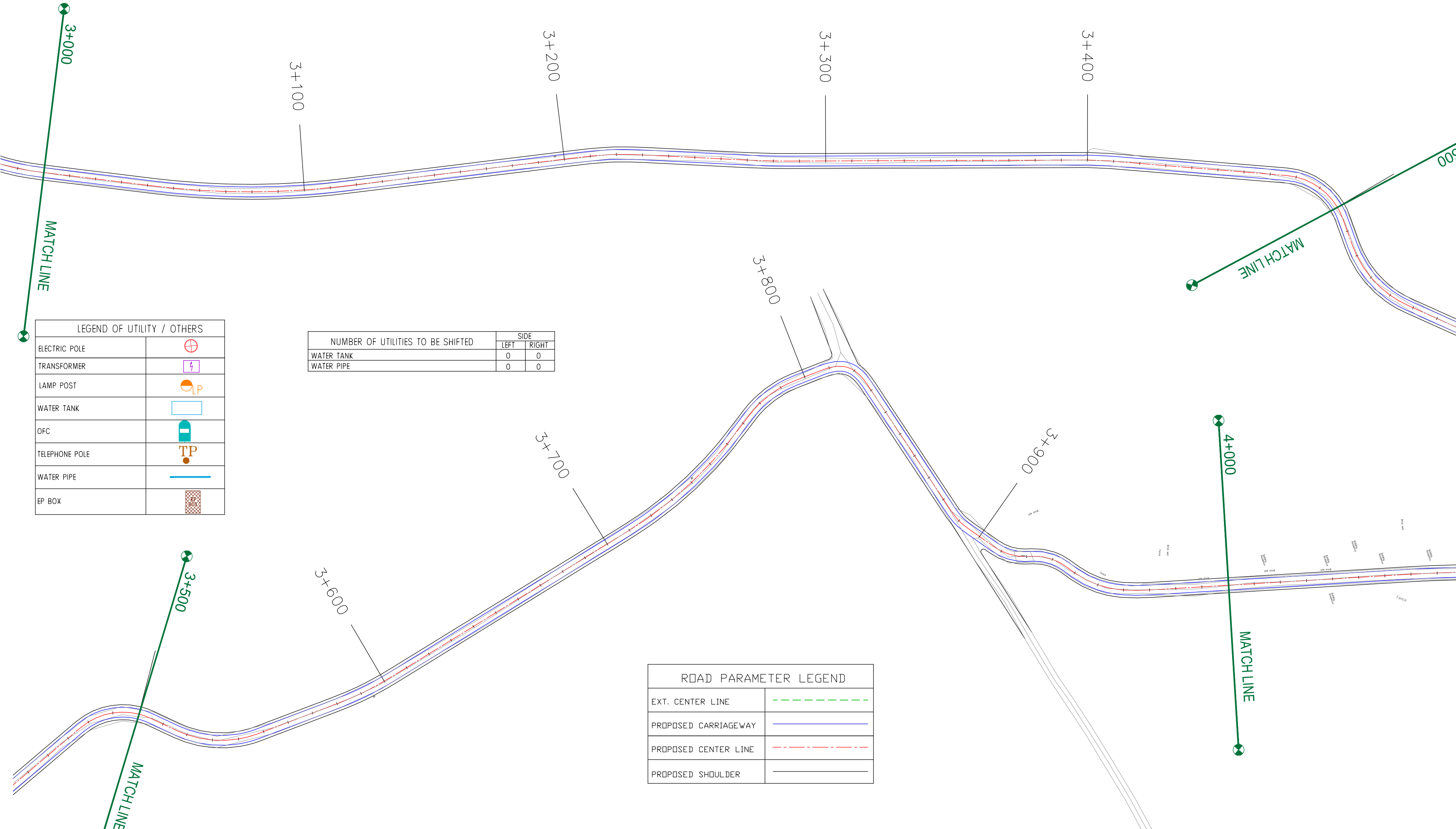
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Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Water Department) (Ch. 1+000 to Ch. 2+000)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/URP/02
REVISION : R-1	September 2019





LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
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**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Utility Relocation Plan (For Water Department) (Ch. 3+000 to Ch. 4+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/URP/04
REVISION : R-1	September 2019

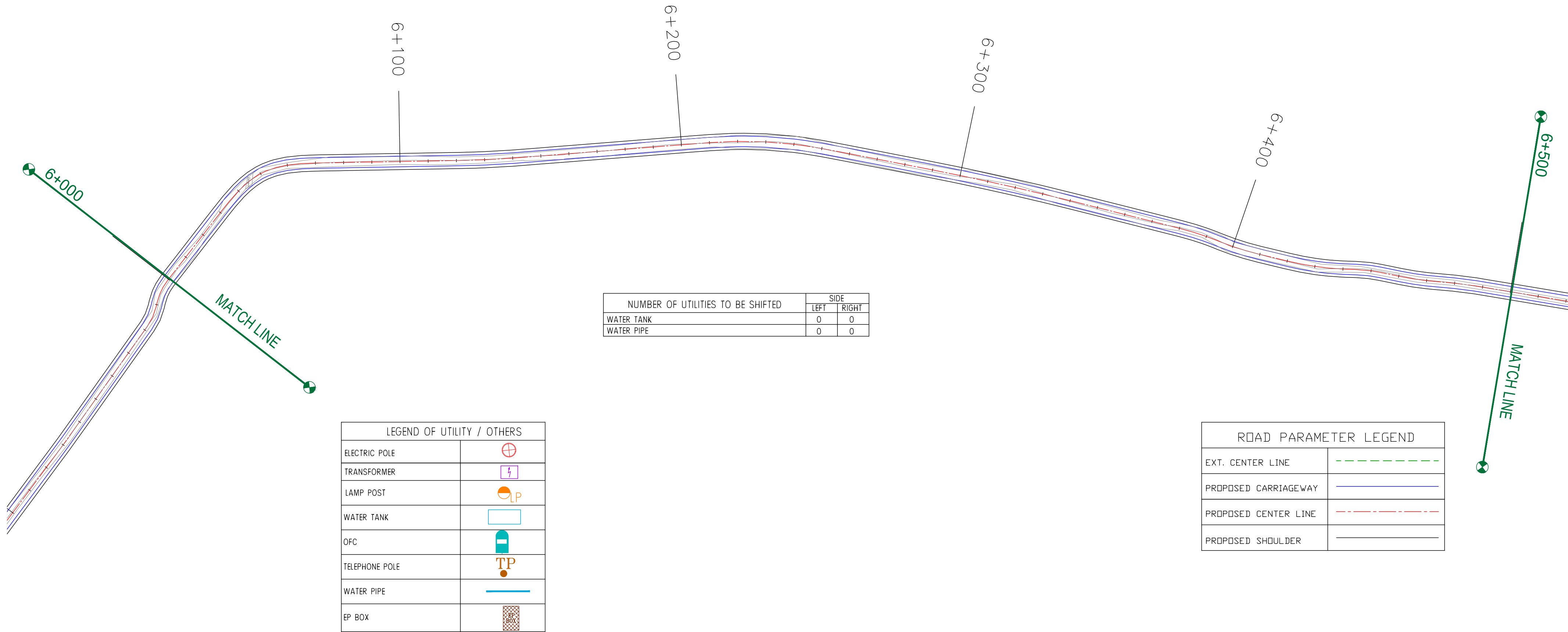


LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

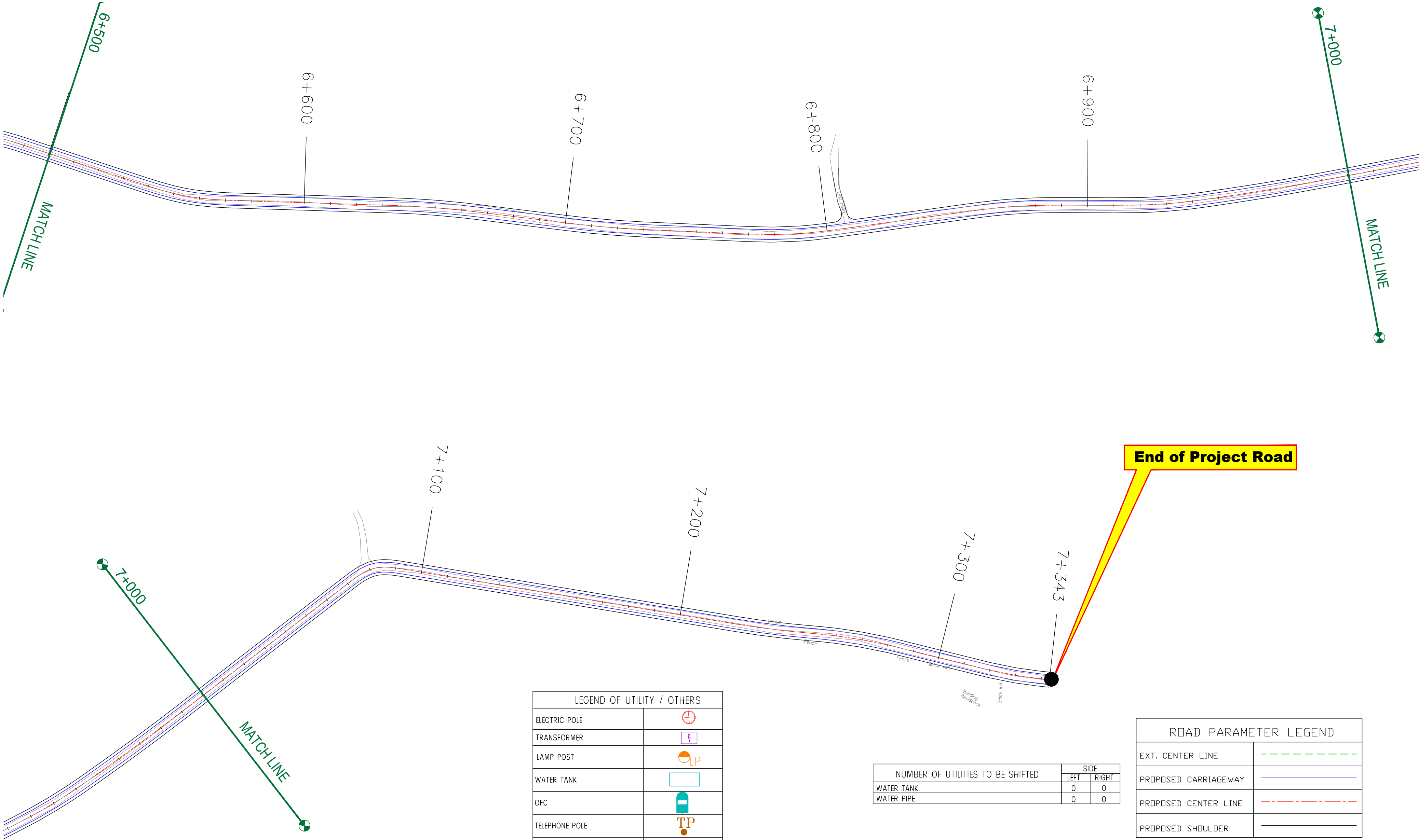
ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	





← Bijbehera

Karihama National Highway via Kitriteng →



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
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**(Bijbehera to Karihama National Highway via Kitriteng
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DESIGN CONSULTANT:



servicios de Ingenieria S.L.

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Ph: 033-40347200
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REV.	DATE	DESCRIPTION
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DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :

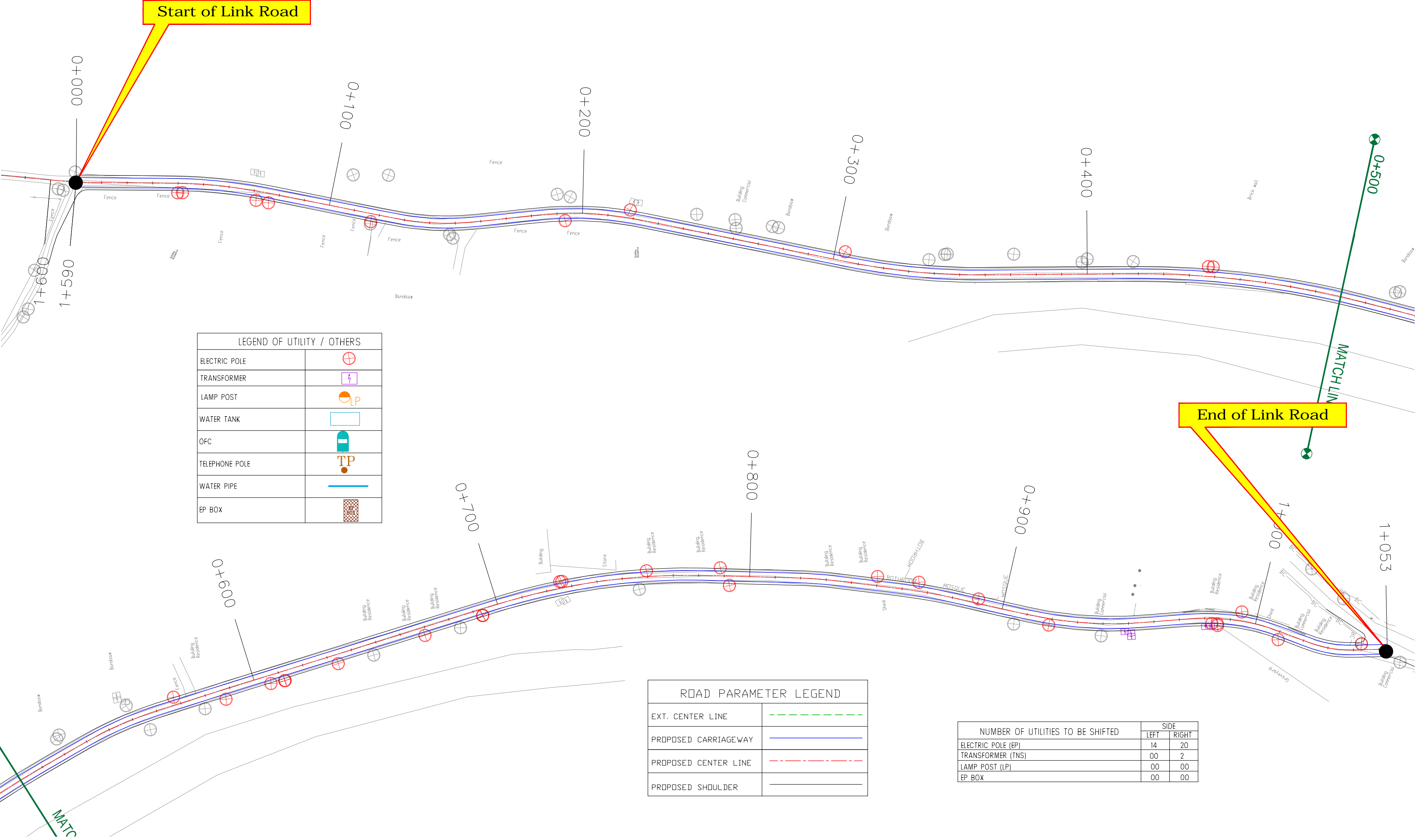
**Utility Relocation Plan
(For Water Department)**
(Ch. 6+500 to Ch. 7+343)

DRG. NO. : EPTISA/JTRFP/DPR/J&K/URP/08

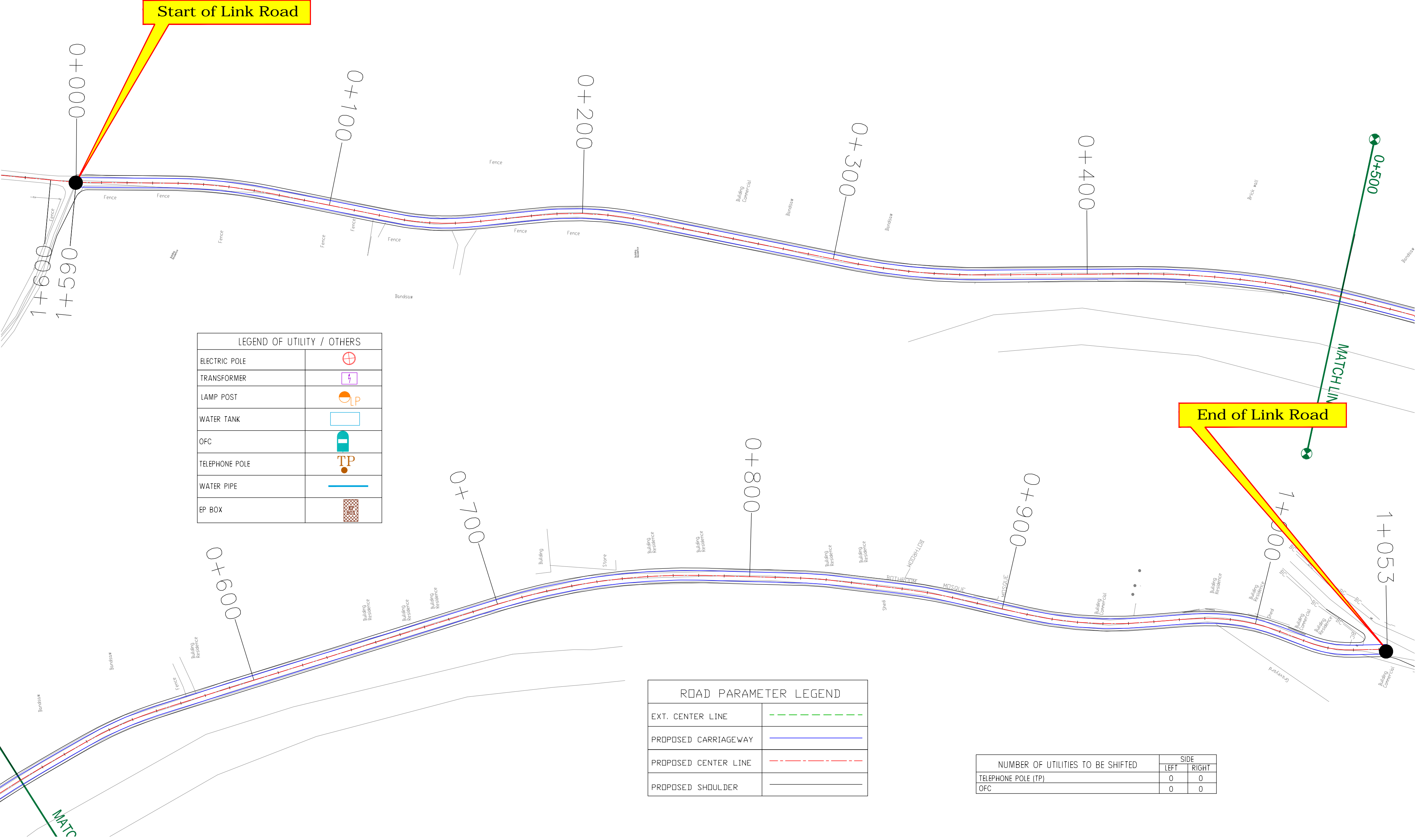
REVISION : R-1

September 2019

≡ UTILITY RELOCATION PLAN FOR LINK ROAD (ELECTRICITY DEPARTMENT) ≡



≡ UTILITY RELOCATION PLAN FOR LINK ROAD (TELEPHONE DEPARTMENT) ≡



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
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DESIGN CONSULTANT:



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Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION
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DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE : Utility Relocation Plan (Link Road)
(For Telephone Department)
(Ch. 0+000 to Ch. 1+053)

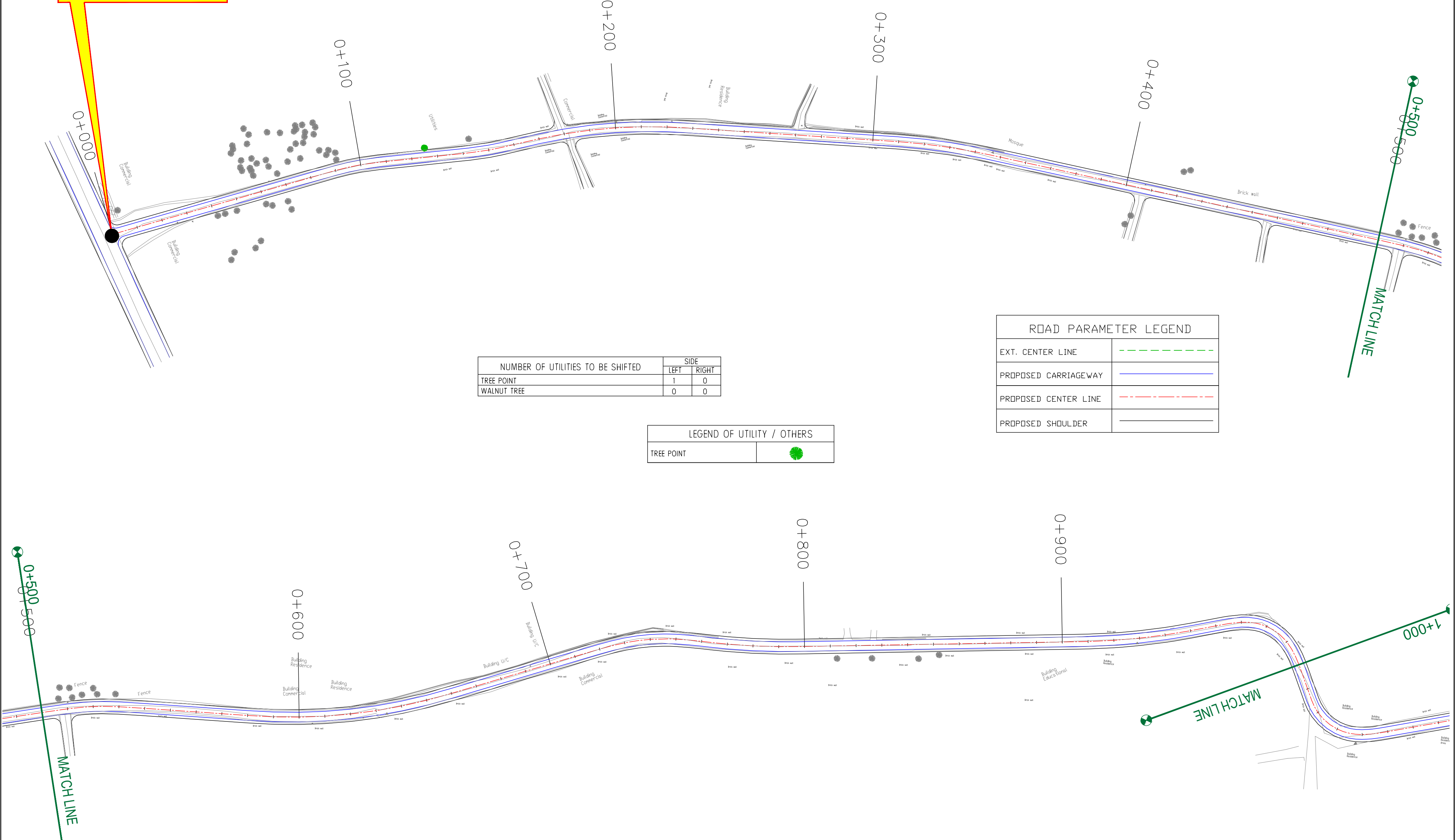
DRG. NO. : EPTISA/JTRP/DPR/J&K/URP/01

REVISION : R-1 September 2019



≡ TREE CUTTING (MAIN ROAD) ≡

Start of Project Road



NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TREE POINT	1	0
WALNUT TREE	0	0

LEGEND OF UTILITY / OTHERS	
TREE POINT	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
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**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:

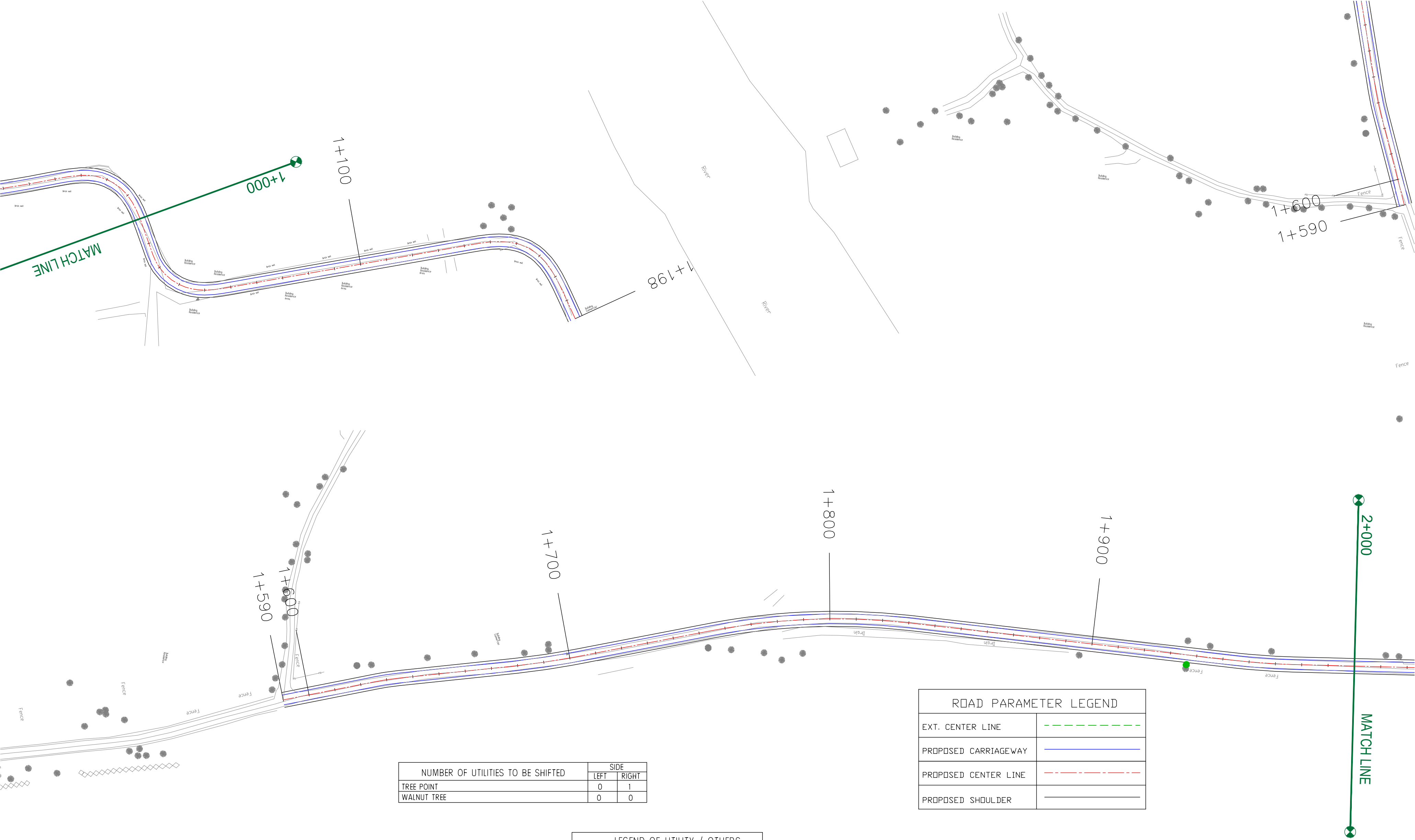


servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Tree Cutting	
	(Ch. 0+000 to Ch. 1+000)	
DRG. NO. :	EPTISA/JTRP/DPR/J&K/TC/01	
REVISION : R-1	September 2019	



NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TREE POINT	0	1
WALNUT TREE	0	0

LEGEND OF UTILITY / OTHERS	
TREE POINT	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:

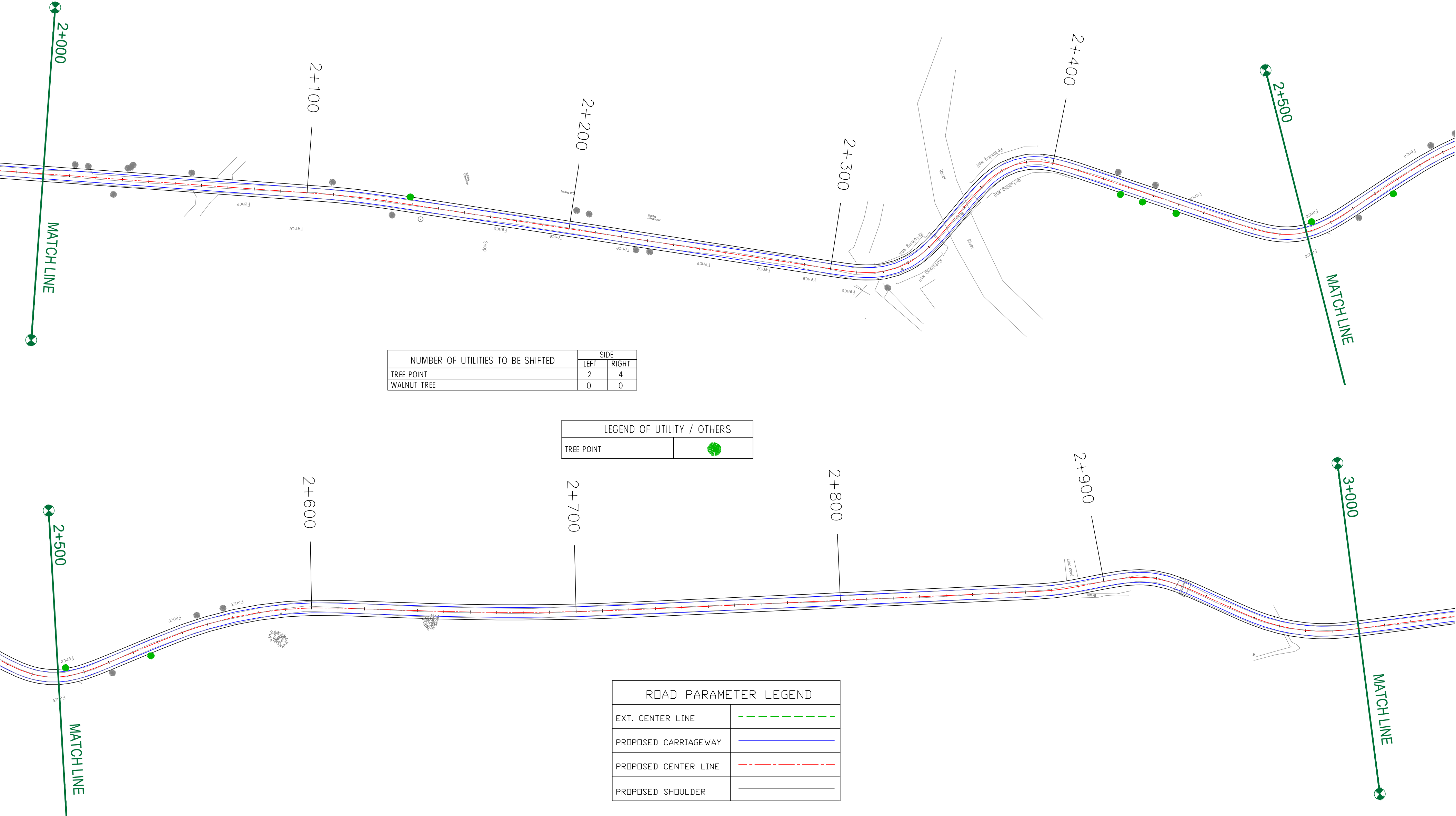


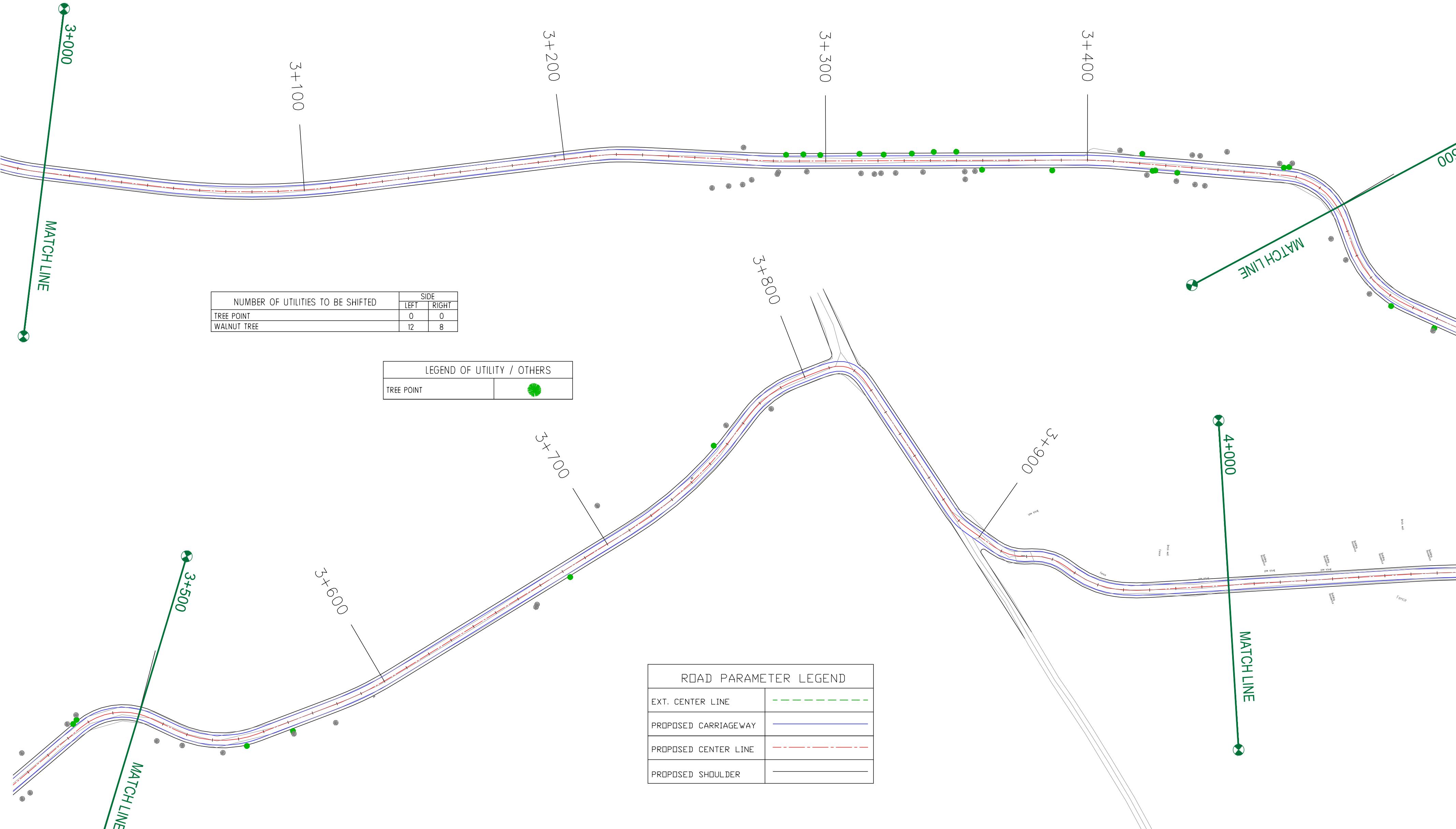
servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Tree Cutting (Ch. 1+000 to Ch. 2+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/TC/02
REVISION : R-1	September 2019





NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TREE POINT	0	0
WALNUT TREE	12	8

LEGEND OF UTILITY / OTHERS	
TREE POINT	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



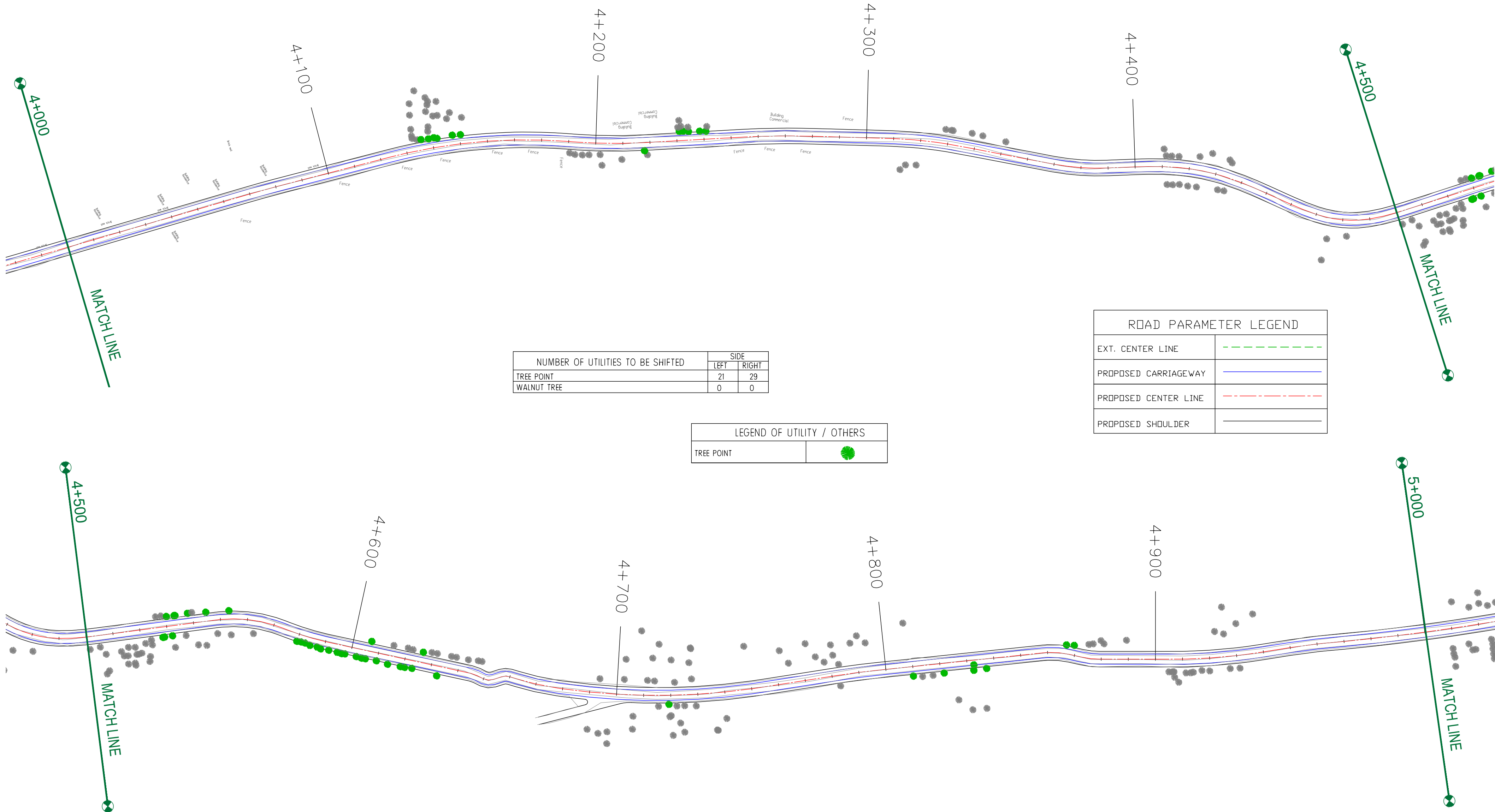
servicios de Ingenieria S.L.

Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Tree Cutting (Ch. 3+000 to Ch. 4+000)
DRG. NO. :	EPTISA/JTRFP/DPR/J&K/TC/04
REVISION : R-1	September 2019



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



Servicios de Ingenieria S.L.
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Corporate Park, Plot No. 2, Block EP & GP,
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West Bengal
Ph: 033-40347200
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REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Tree Cutting (Ch. 4+000 to Ch. 5+000)
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/TC/05
REVISION : R-1	September 2019



NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TREE POINT	18	32
WALNUT TREE	0	0

LEGEND OF UTILITY / OTHERS	
TREE POINT	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :

Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

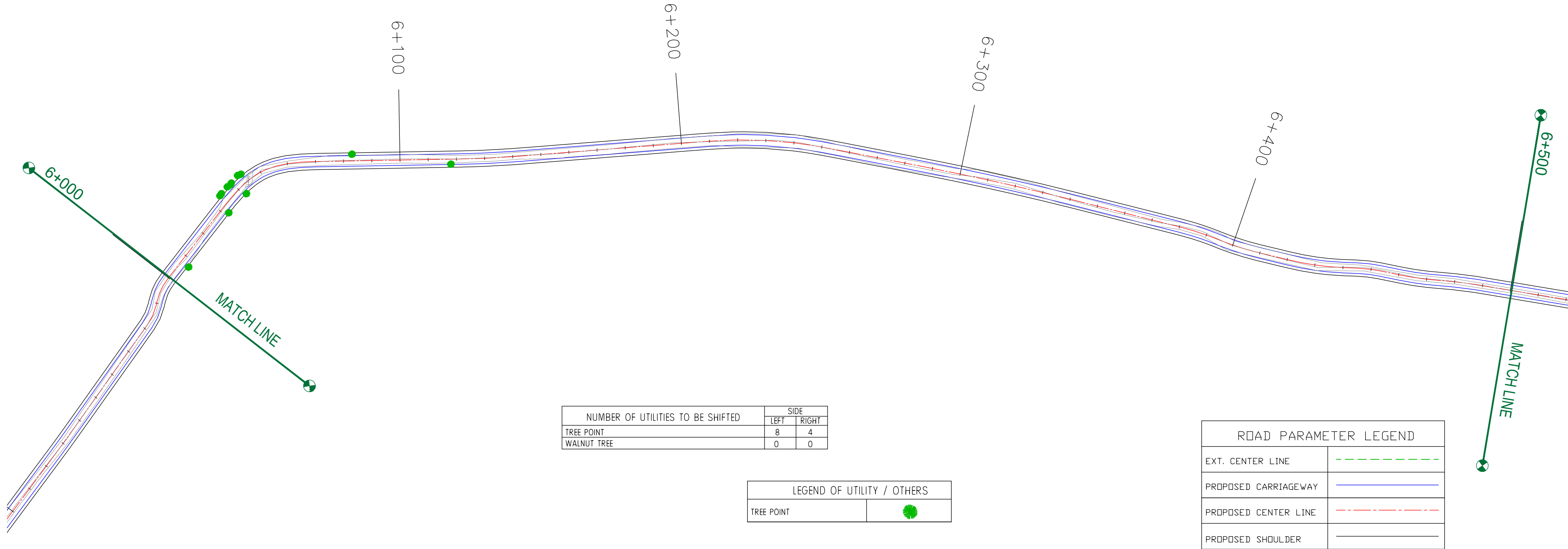
DESIGN CONSULTANT:

servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

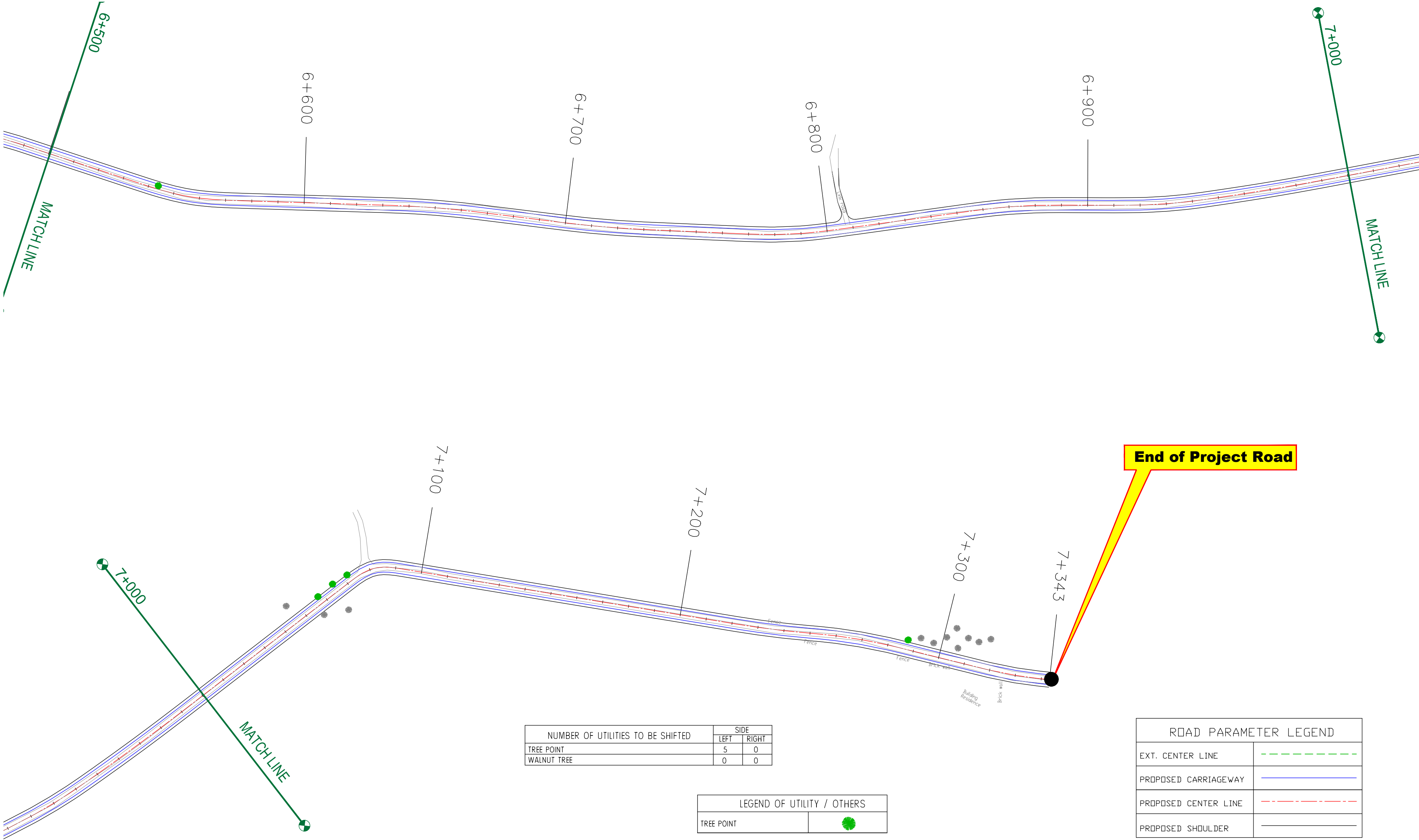
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DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	
Tree Cutting (Ch. 5+000 to Ch. 6+000)	
DRG. NO. : EPTISA/JTRFP/DPR/J&K/TC/06	
REVISION : R-1	September 2019



← Bijbehera

Karihama National Highway via Kitriteng →



NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TREE POINT	5	0
WALNUT TREE	0	0

LEGEND OF UTILITY / OTHERS	
TREE POINT	

ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:



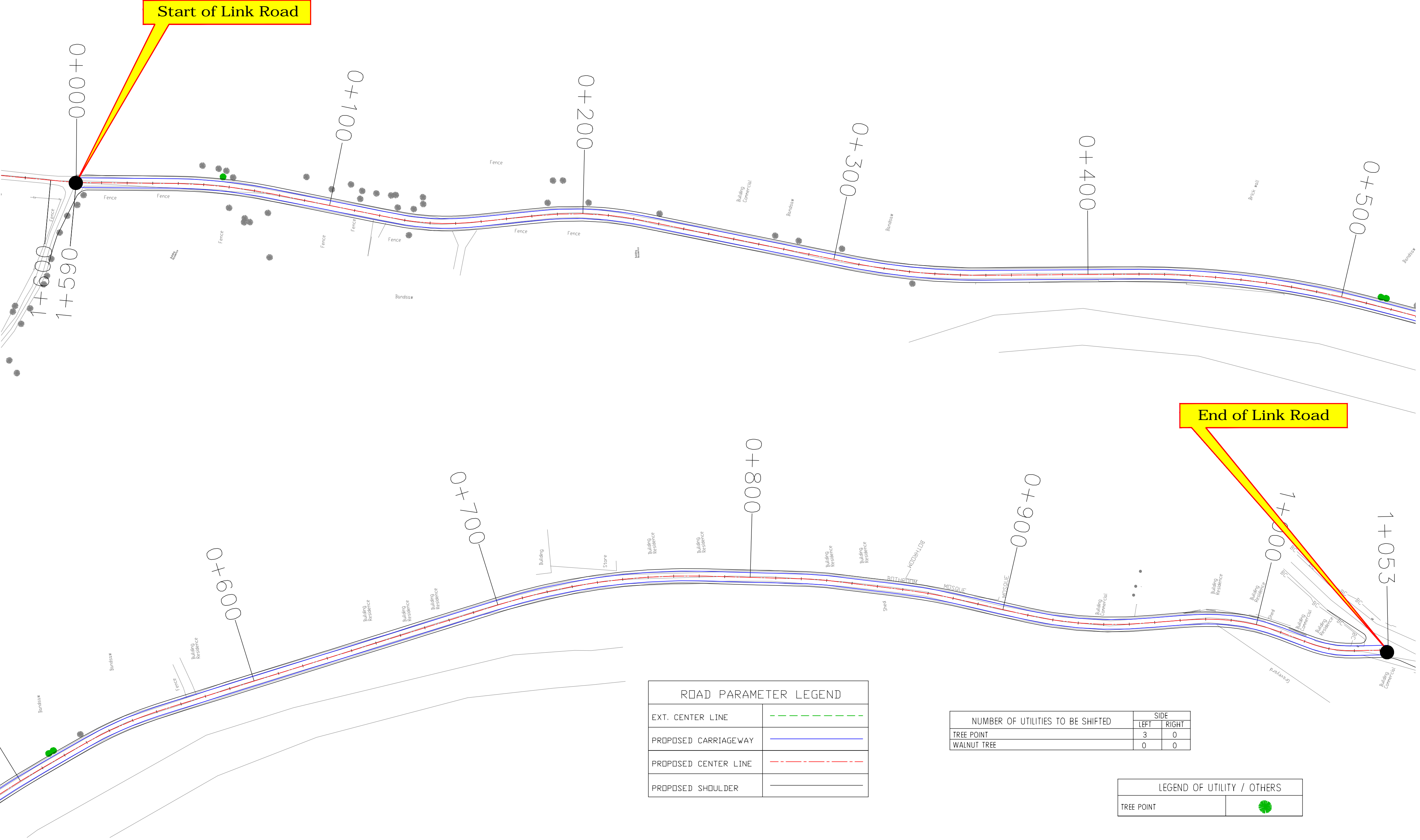
servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

TITLE :	Tree Cutting (Ch. 6+500 to Ch. 7+343)	
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/TC/08	
REVISION : R-1	September 2019	

≡ TREE CUTTING (LINK ROAD) ≡



ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
TREE POINT	3	0
WALNUT TREE	0	0

LEGEND OF UTILITY / OTHERS	
TREE POINT	

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
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DESIGN CONSULTANT:



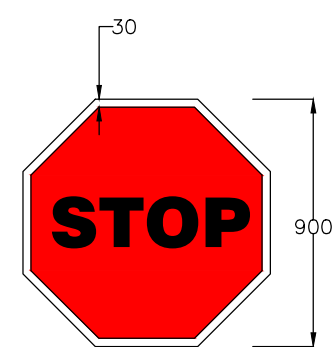
servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	SD
DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	1:1000

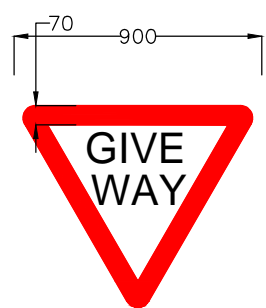
TITLE :	
Tree Cutting (Link Road) (Ch. 0+000 to Ch. 1+053)	
DRG. NO. : EPTISA/JTRFP/DPR/J&K/TC/01	
REVISION : R-1	September 2019

≡ MISCELLANEOUS DRAWINGS ≡



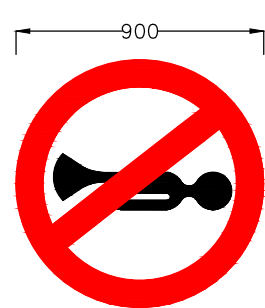
STOP SIGNS
Fig. 14.01

MS-1



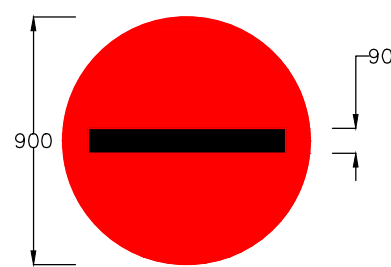
GIVE WAY
Fig. 14.02

MS-2



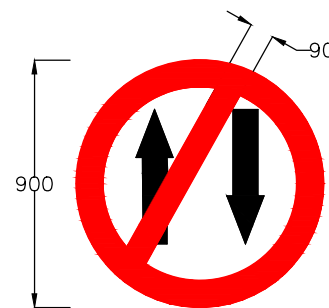
HORN PROHIBITED
Fig. 14.18

MS-3



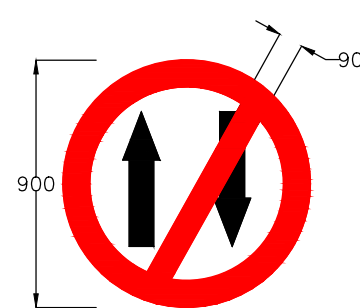
NO ENTRY
Fig. 14.19

MS-4



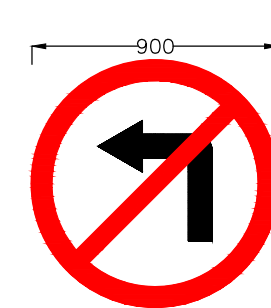
ONE WAY
Fig. 14.20

MS-5



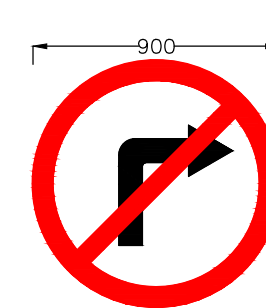
ONE WAY
Fig. 14.20

MS-6



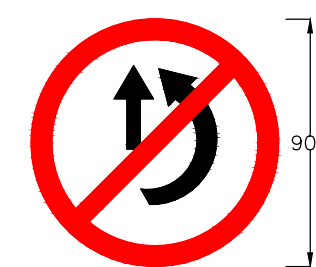
LEFT TURN PROHIBITED
Fig. 14.21

MS-7



RIGHT TURN PROHIBITED
Fig. 14.22

MS-8



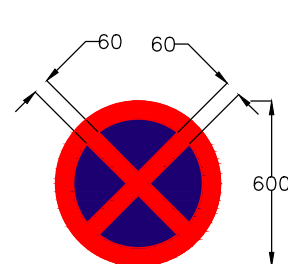
OVERTAKING PROHIBITED
Fig. 14.23

MS-9



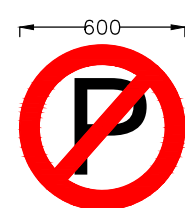
U- TURN PROHIBITED
Fig. 14.24

MS-10



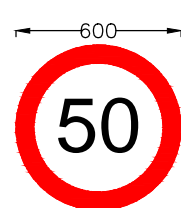
NO STOPPING AND NO STANDING
Fig. 14.28

MS-11



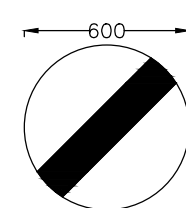
NO PARKING
Fig. 14.29

MS-12



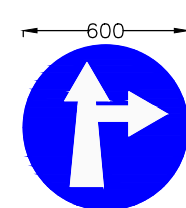
MAXIMUM SPEED LIMIT
Fig. 14.37

MS-13



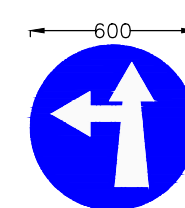
RESTRICTION ENDS
Fig. 14.40

MS-14



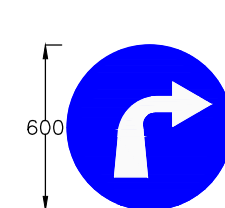
COMPULSORY AHEAD
OR RIGHT TURN
Fig. 14.42

MS-15



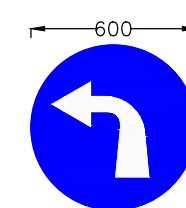
COMPULSORY AHEAD
OR LEFT TURN
Fig. 14.43

MS-16



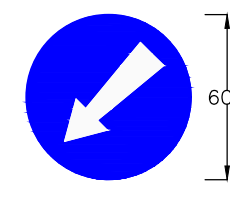
COMPULSORY
TURN RIGHT
Fig. 14.46

MS-17



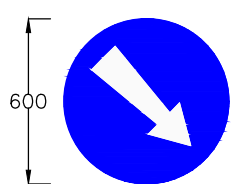
COMPULSORY
TURN LEFT
Fig. 14.47

MS-18



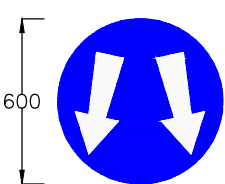
COMPULSORY KEEP LEFT
Fig. 14.48

MS-19



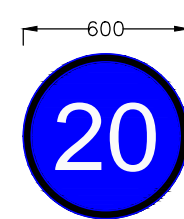
COMPULSORY KEEP RIGHT
Fig. 14.49

MS-20



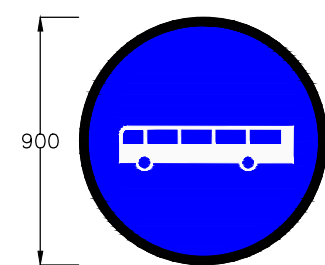
PASS EITHER SIDE
Fig. 14.50

MS-21



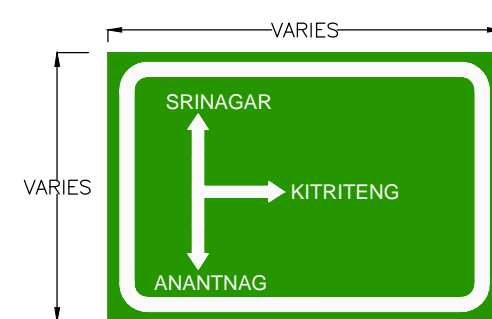
MINIMUM SPEED LIMIT
Fig. 14.51

MS-22



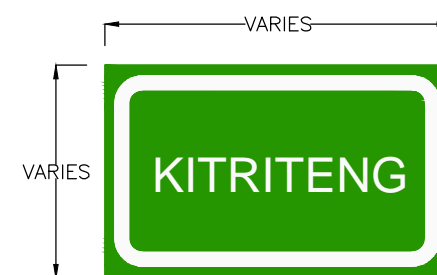
BUS WAY/BUSES ONLY
Fig. 14.56

MS-23



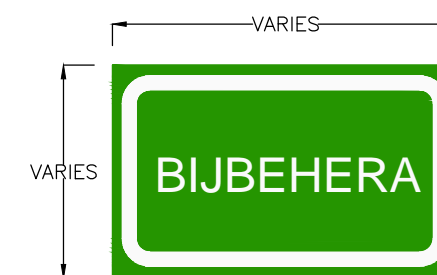
ADVANCE DIRECTION SIGN
Fig. 16.03

DS-01



PLACE IDENTIFICATION SIGN
Fig. 16.06

DS-02



PLACE IDENTIFICATION SIGN
Fig. 16.06

DS-03


Notes:

1. Road signs shall be erected as per IRC:67-2012.
2. Sizes of arrows, letters and numerals for road signs shall be as per IRC:67-2012
3. Route marker signs, letters and numerals shall be erected as per IRC:2-1968.
4. Spacing of TA2 on kerb face shall be 250mm C/C and that on metal beam crash barrier shall be 3000mm C/C. The number of reflector at island/median tips shall be as instructed by the Engineer, but in no case shall be less than five number at a tip.
5. All items indicated in this drawing may not be relevant for the subject project, these shall be used depending upon the requirement.
6. Besides the above, standards and specifications mentioned in IRC : SP : 73-2015 shall be followed strictly whenever applicable.
7. All dimensions are in millimetres unless otherwise mentioned.

CLIENT :

Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

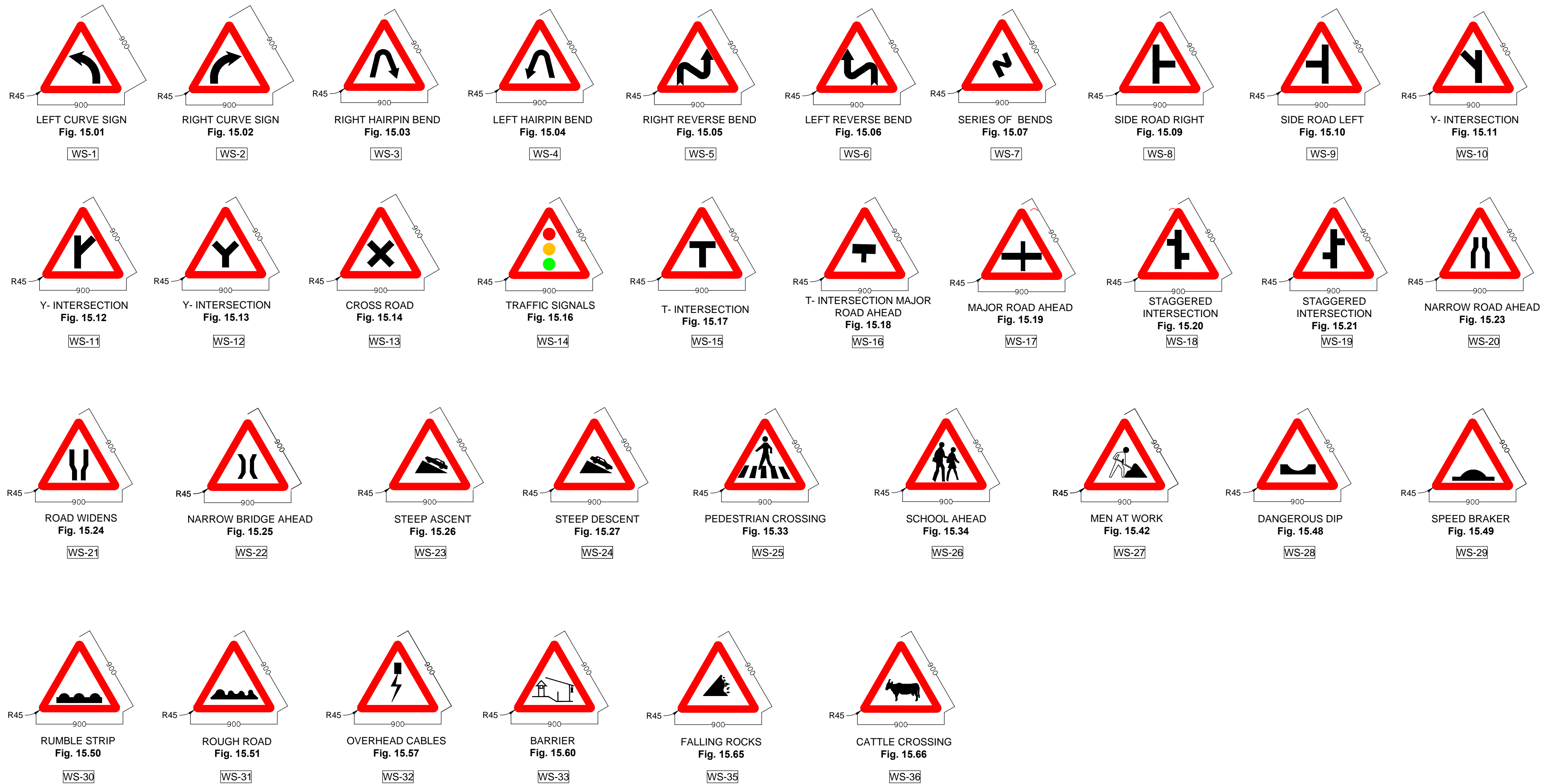
PROJECT :
Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
**(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)**

DESIGN CONSULTANT:
 **Eptisa Servicios de Ingenieria S.L.**
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : SD
DESIGNED BY : SCK/MM
APPROVED BY : KG
SCALE : N.T.S

TITLE :
Road Signs & Road Delineators
DRG. NO. : EPTISA/JTRP/DPR/J&K/MISC/01
(Sheet 01 of 03)
REVISION : R-1
September 2019



Notes:

- 1.Road signs shall be erected as per IRC:67–2012.
- 2.Sizes of arrows, letters and numerals for road signs shall be as per IRC:67–2012
- 3.All items indicated in this drawing may not be relevant for the subject project, these shall be used depending upon the requirement.
- 4.Besides the above, standards and specifications mentioned in IRC:SP:73–2015 shall be followed strictly whenever applicable.
- 5.All dimensions are in millimetres unless otherwise mentioned.

CLIENT :



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Srinagar-190 009.

PROJECT :

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DESIGN CONSULTANT:



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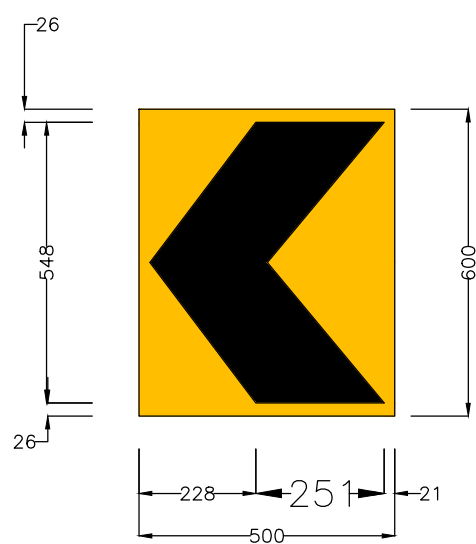
REV.	DATE	DESCRIPTION

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DESIGNED BY :	SCK/MM
APPROVED BY :	KG
SCALE :	N.T.S

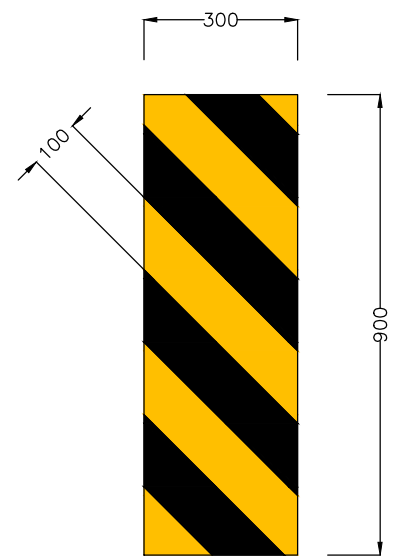
TITLE :

Road Signs & Road Delineators

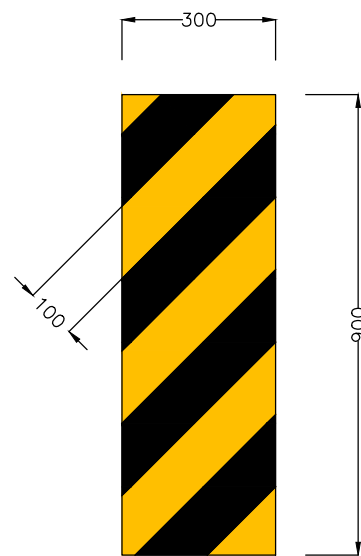
DRG. NO. : EPTISA/JTRP/DPR/J&K/MISC/01 (Sheet 02 of 03)	REVISION : R-1	September 2019
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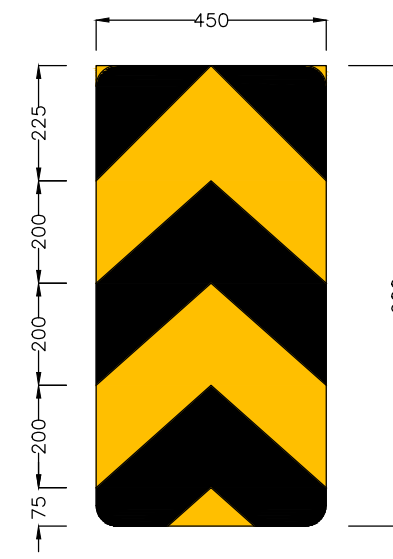
SINGLE CHEVRON
Fig. 15.72
TA-1
SCALE 1:15000



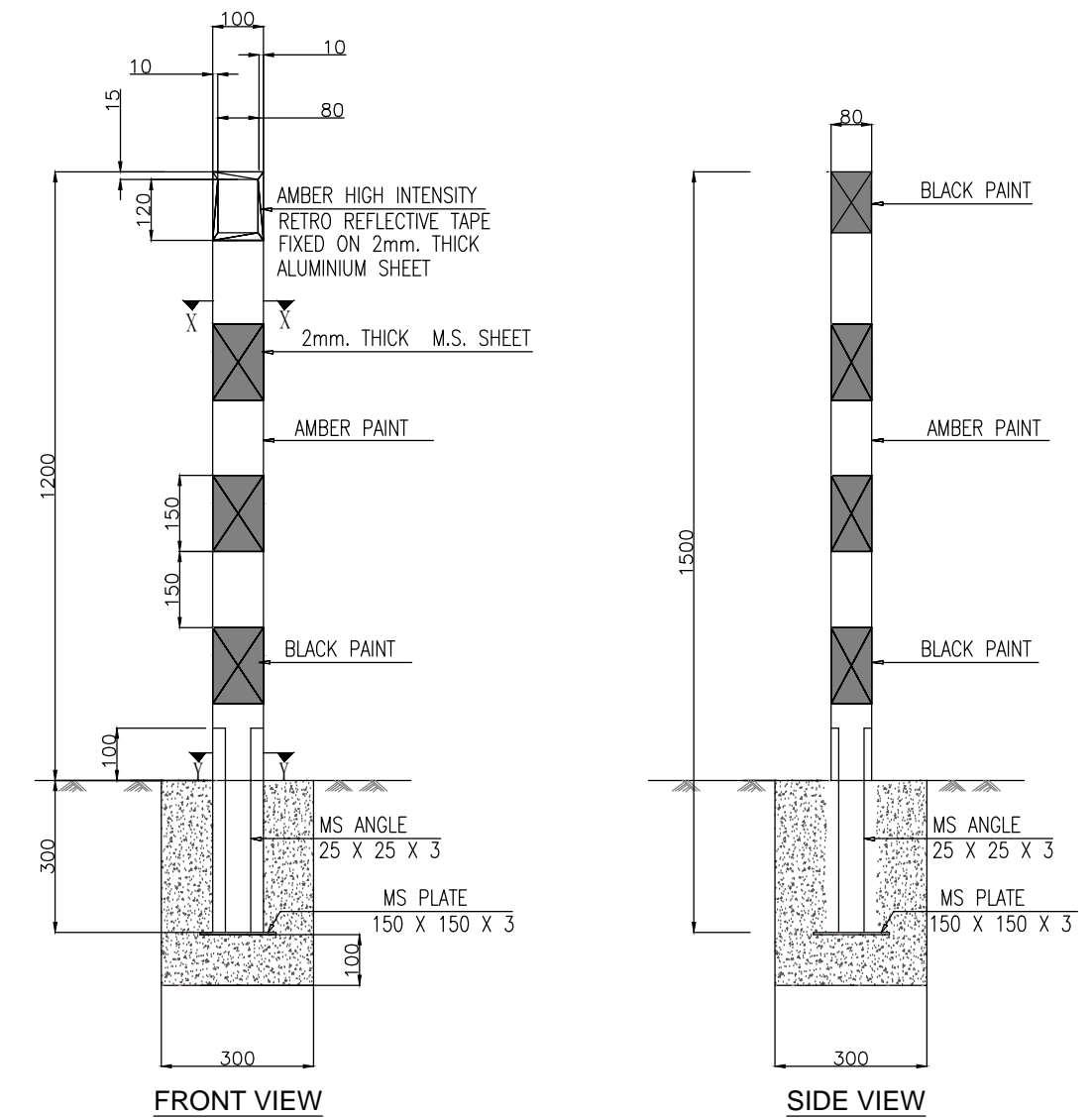
OBJECT HAZARD (LEFT)
Fig. 15.76
TA-2
SCALE 1:15000



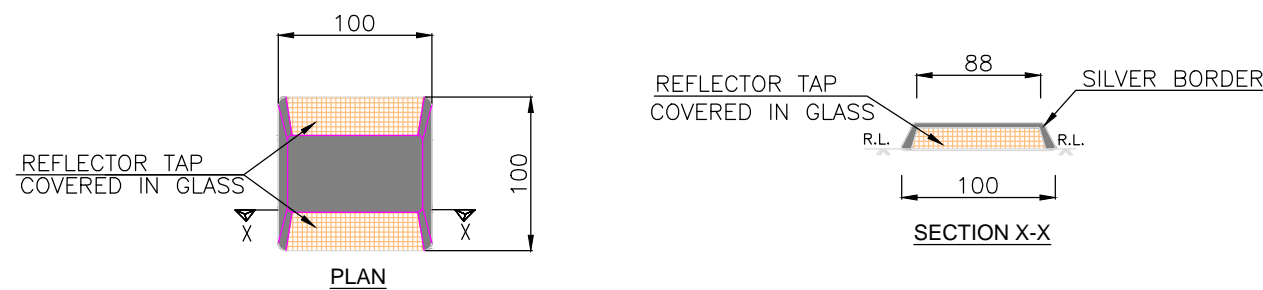
OBJECT HAZARD (RIGHT)
Fig. 15.77
TA-3
SCALE 1:15000



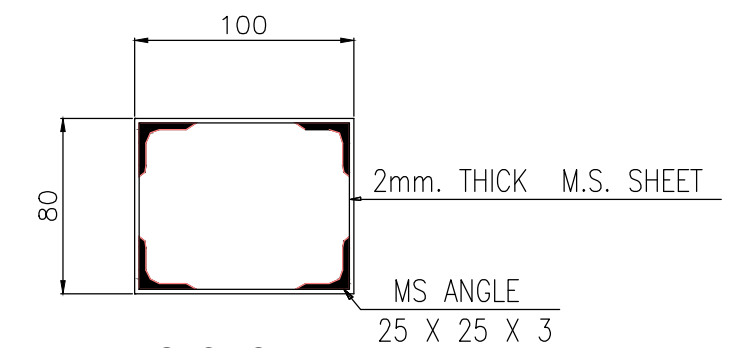
TWO WAY HAZARD MARKER
Fig. 15.78
TA-4
SCALE 1:15000



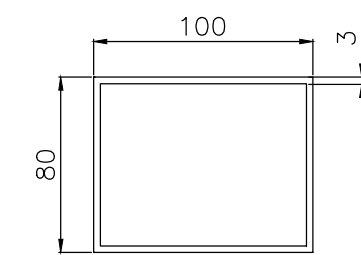
ROAD DELINEATORS
TA-6
SCALE 1:15000



ROAD STUDS (CATS'S EYE)
TA-7
SCALE 1:5000



SECTION Y-Y
SCALE 1:3500



SECTION X-X
SCALE 1:3500


Notes:

- 1.Road signs shall be erected as per IRC:67–2012.
- 2.Sizes of arrows, letters and numerals for road signs shall be as per IRC:67–2012
- 3.All items indicated in this drawing may not be relevant for the subject project, these shall be used depending upon the requirement.
- 4.Besides the above, standards and specifications mentioned in IRC:SP:73–2015 shall be followed strictly whenever applicable.
- 5.All dimensions are in millimetres unless otherwise mentioned.
- 6.The scale mentioned is applicable for A2 size sheet.

CLIENT :

Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

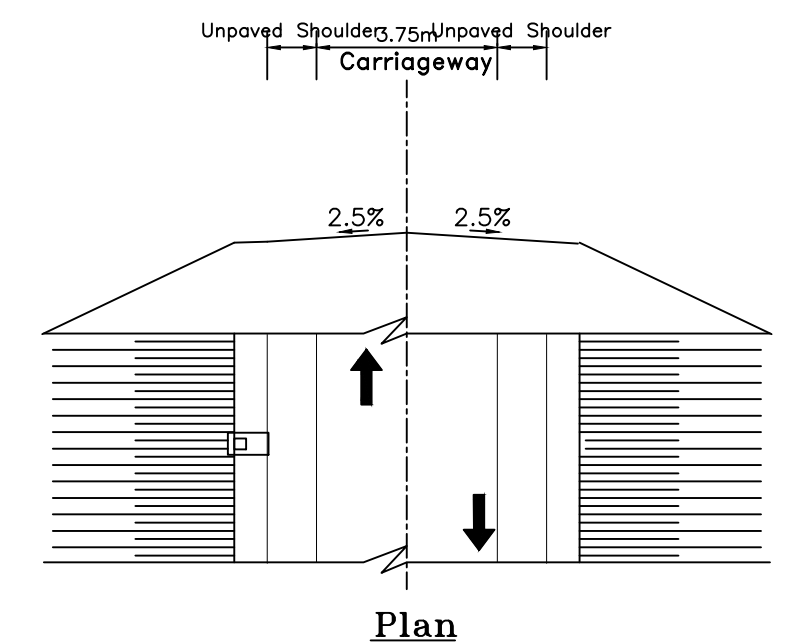
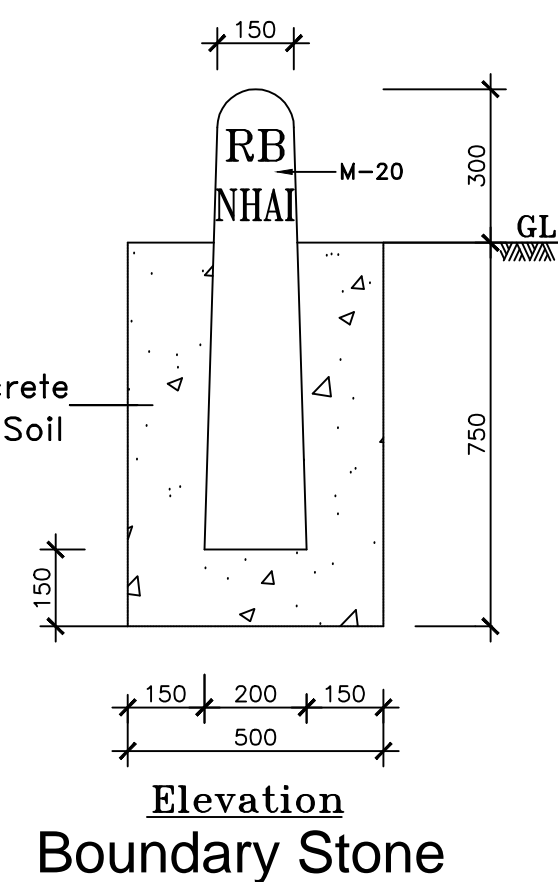
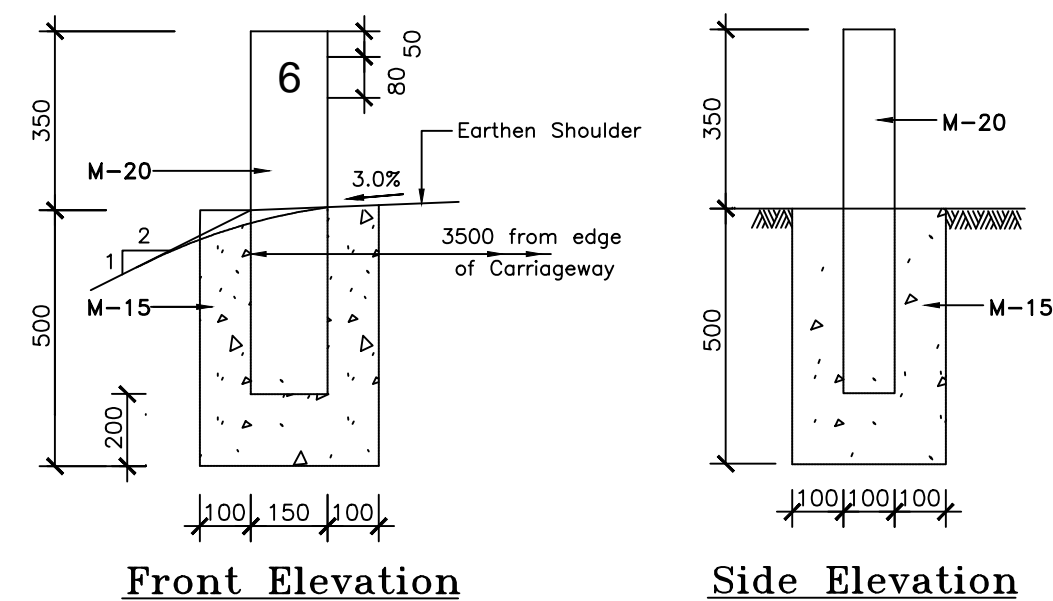
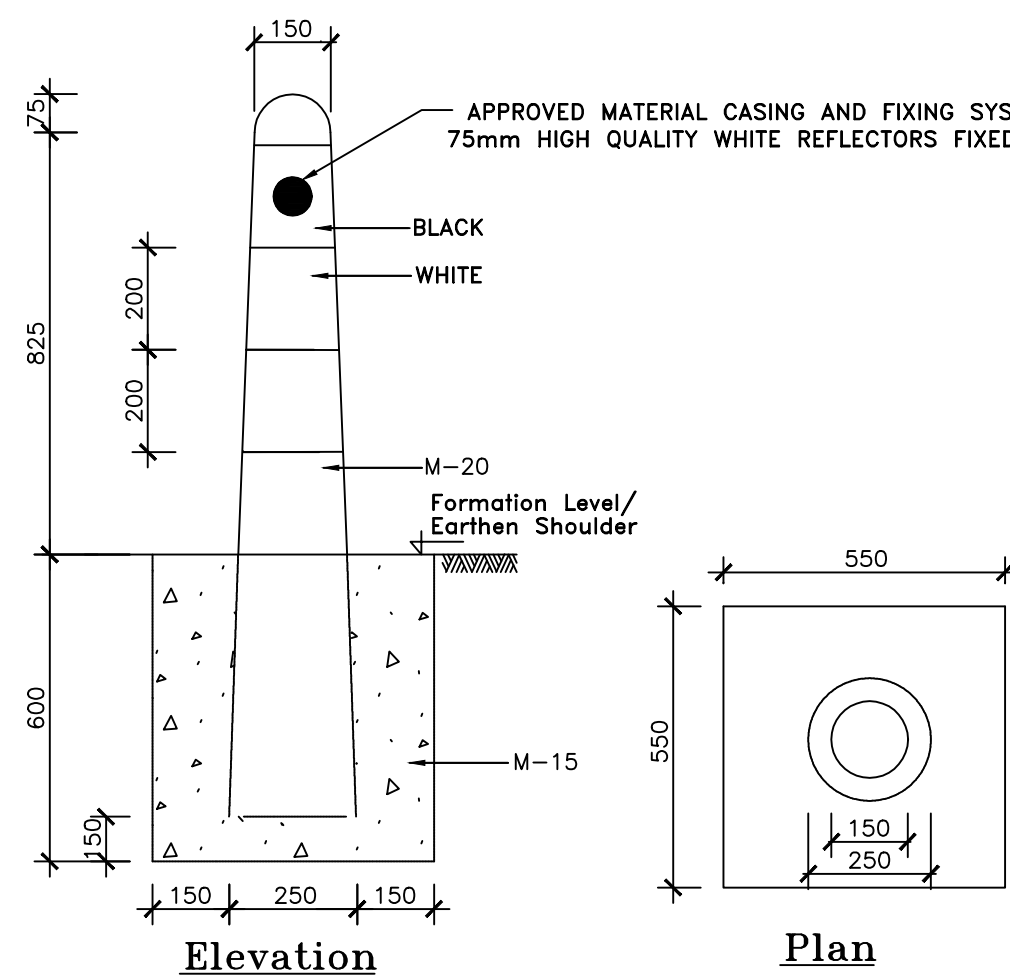
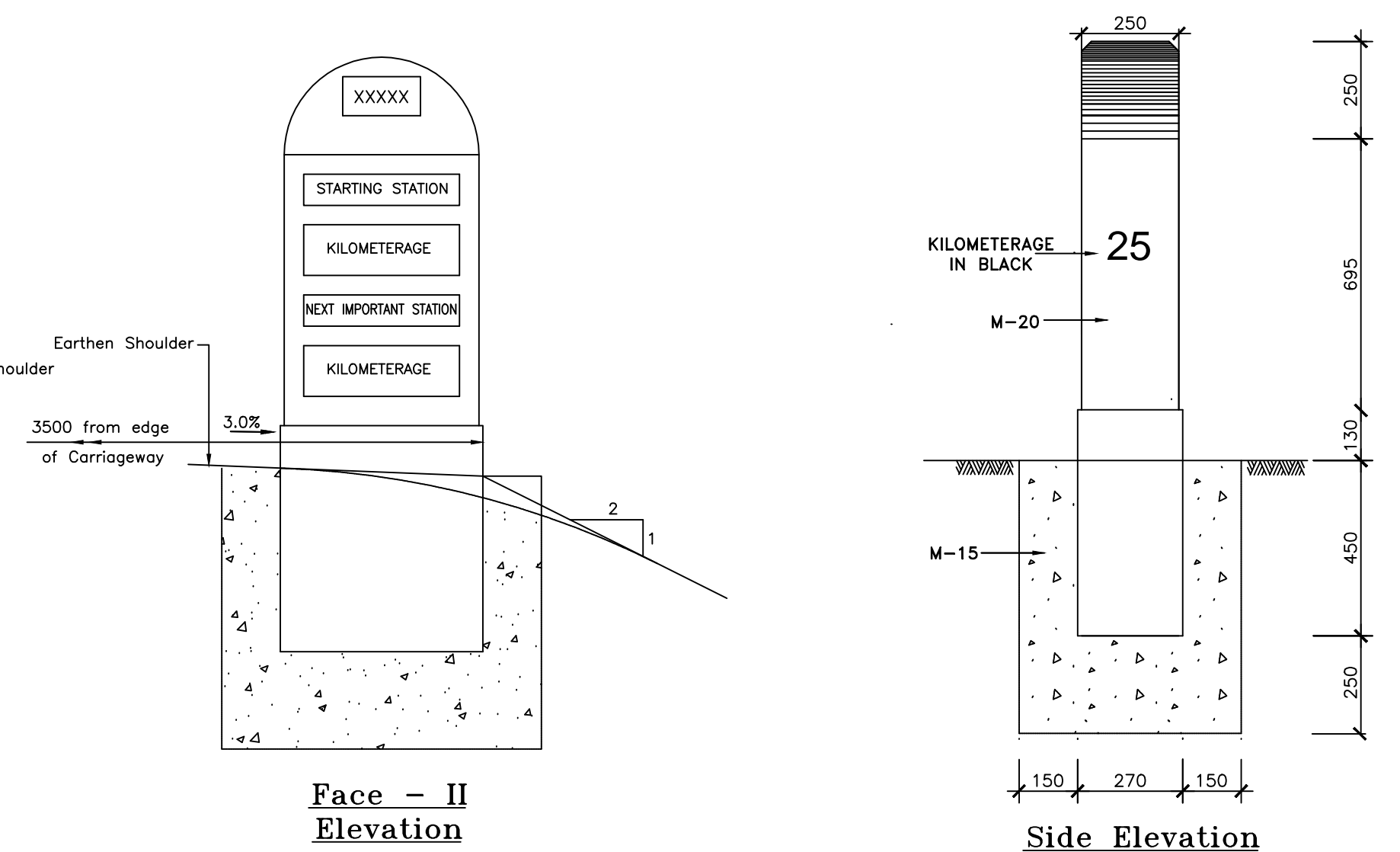
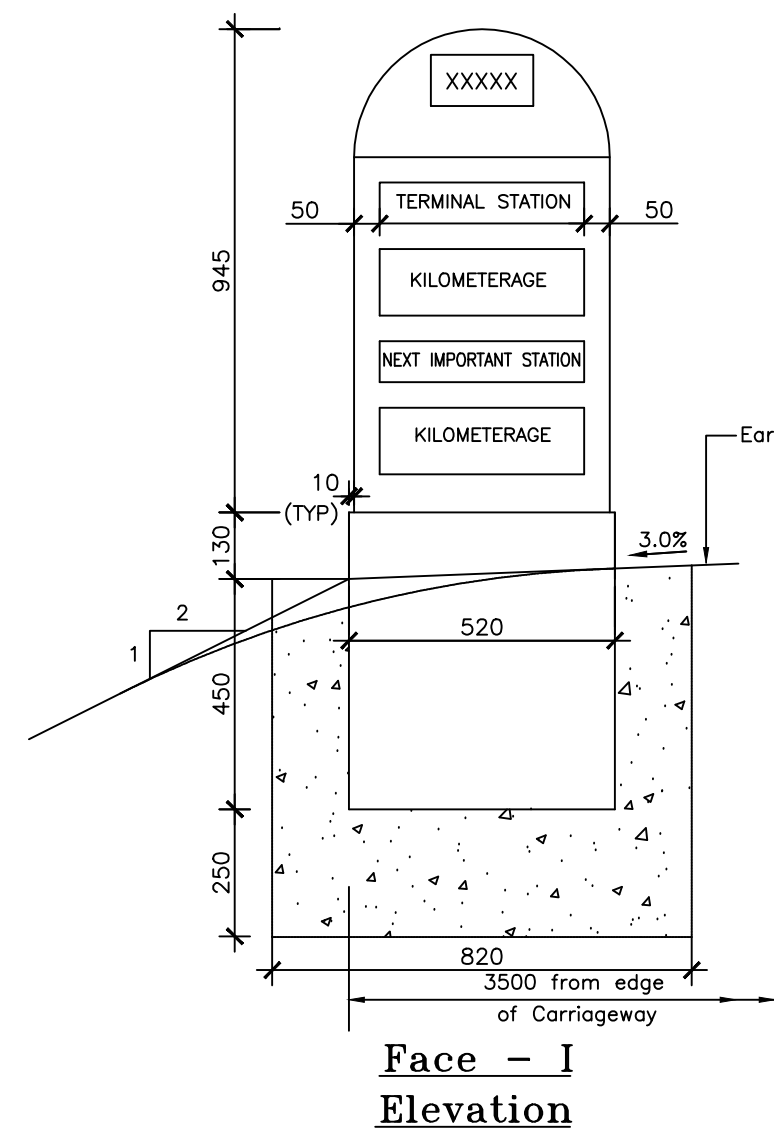
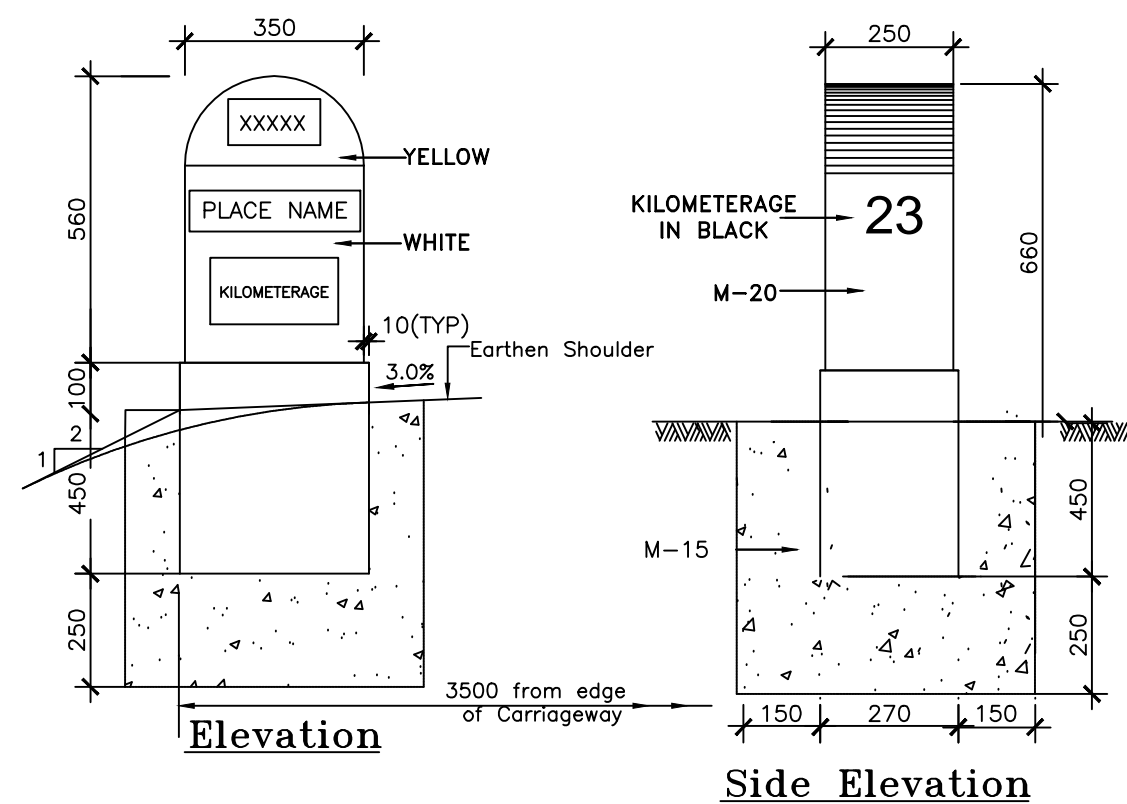
PROJECT :
Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
(***Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District***)

DESIGN CONSULTANT:

Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

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DESIGNED BY : SCK/MM
APPROVED BY : KG
SCALE : AS SHOWN

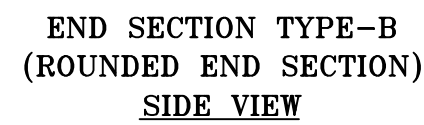
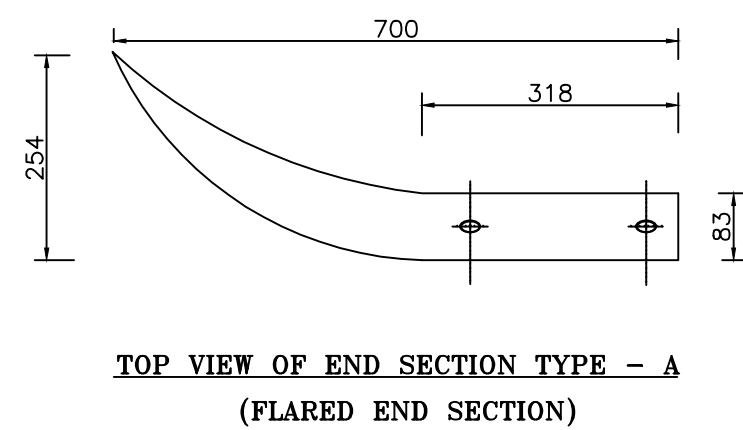
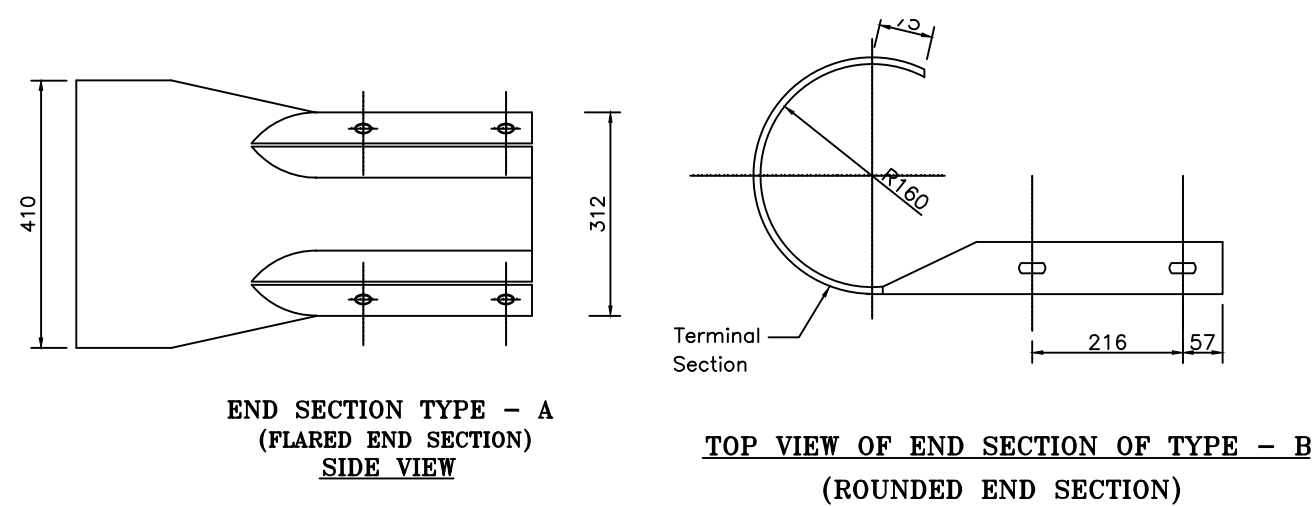
TITLE :
Road Signs & Road Delineators
DRG. NO. : EPTISA/JTRP/DPR/J&K/MISC/01
(Sheet 03 of 03)
REVISION : R-1
September 2019



- Notes:

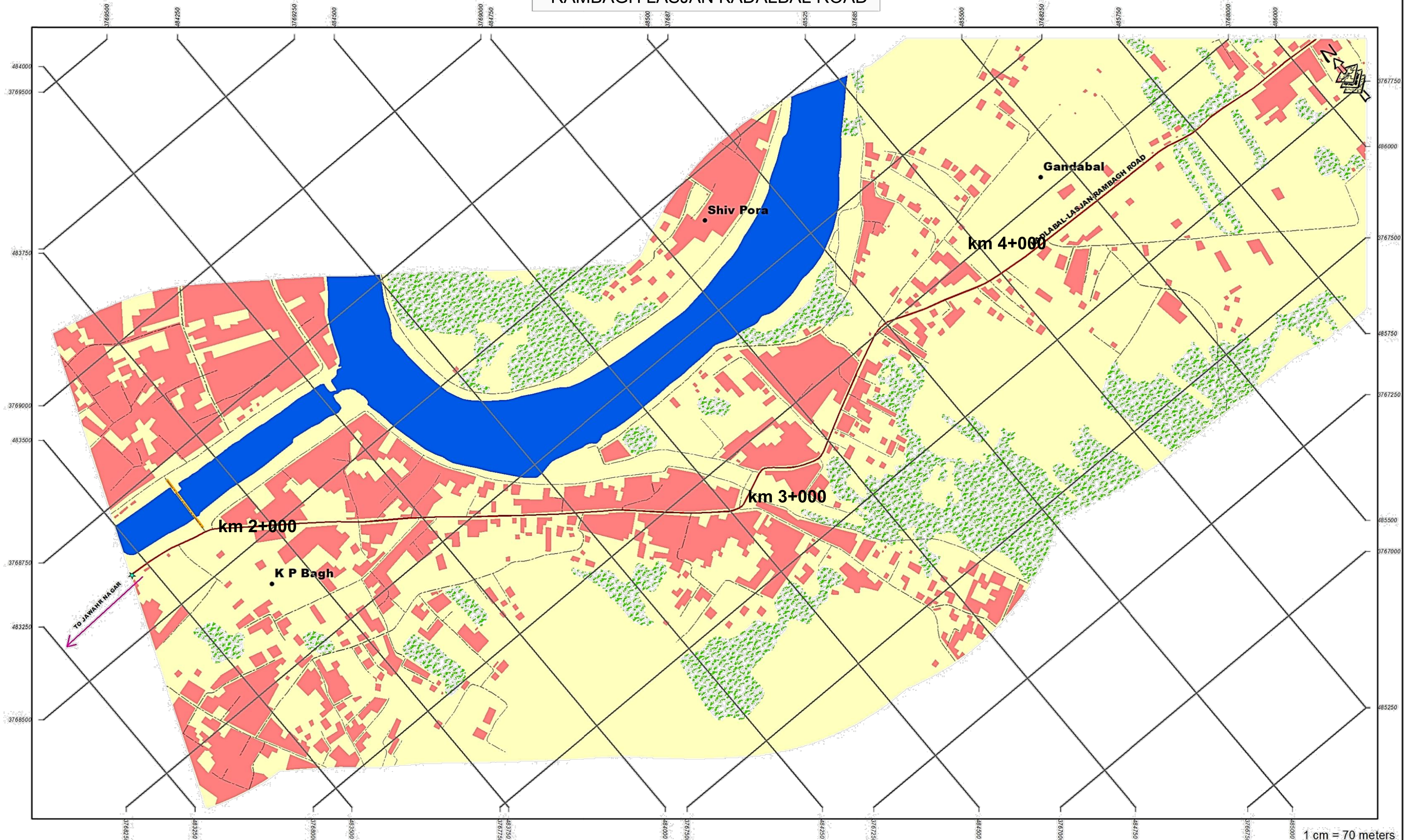
1. Details of kilometre stone and 5th kilometre stone are generally based on IRC:8-1980
2. Details of 200m stones are generally based on IRC:26-1967.
3. The distance stones shall be provided on left side of the road as shown independently for each direction of traffic flow.
4. The letters and numerals on distance stones shall be as per IRC:8-1980.
5. Details of boundary stones are generally based on IRC:25-1967.
6. Besides the above, standards and specifications mentioned in IRC : SP : 73-2015 shall be followed strictly whenever applicable.
7. All dimensions are in millimetres unless otherwise mentioned.
8. Location of Distance Stones shall be as per applicable TCSs for the stretches where Depressed Median has been provided.





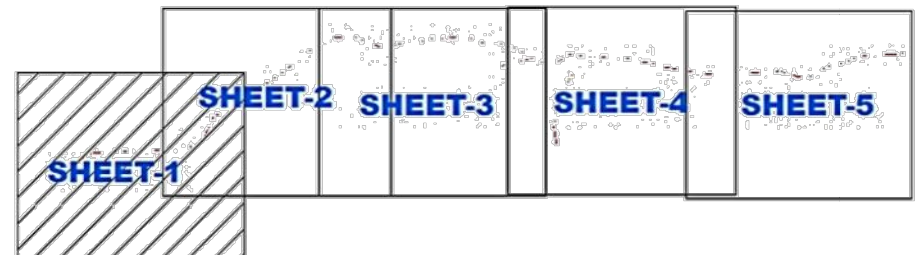
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DRG. NO. : EPTISA/JTFRP/DPR/J&K/MISC/03	
REVISION : R-1	September 2019

RAMBAGH LASJAN KADALBAL ROAD



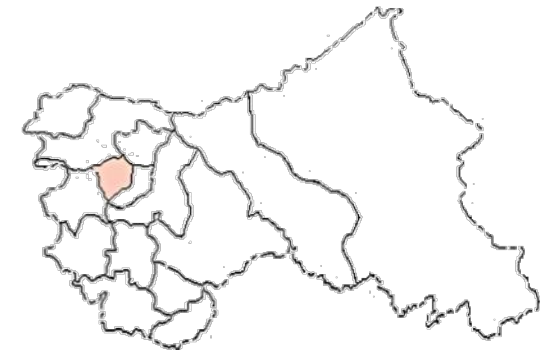
1 cm = 70 meters

INDEX MAP



Legend

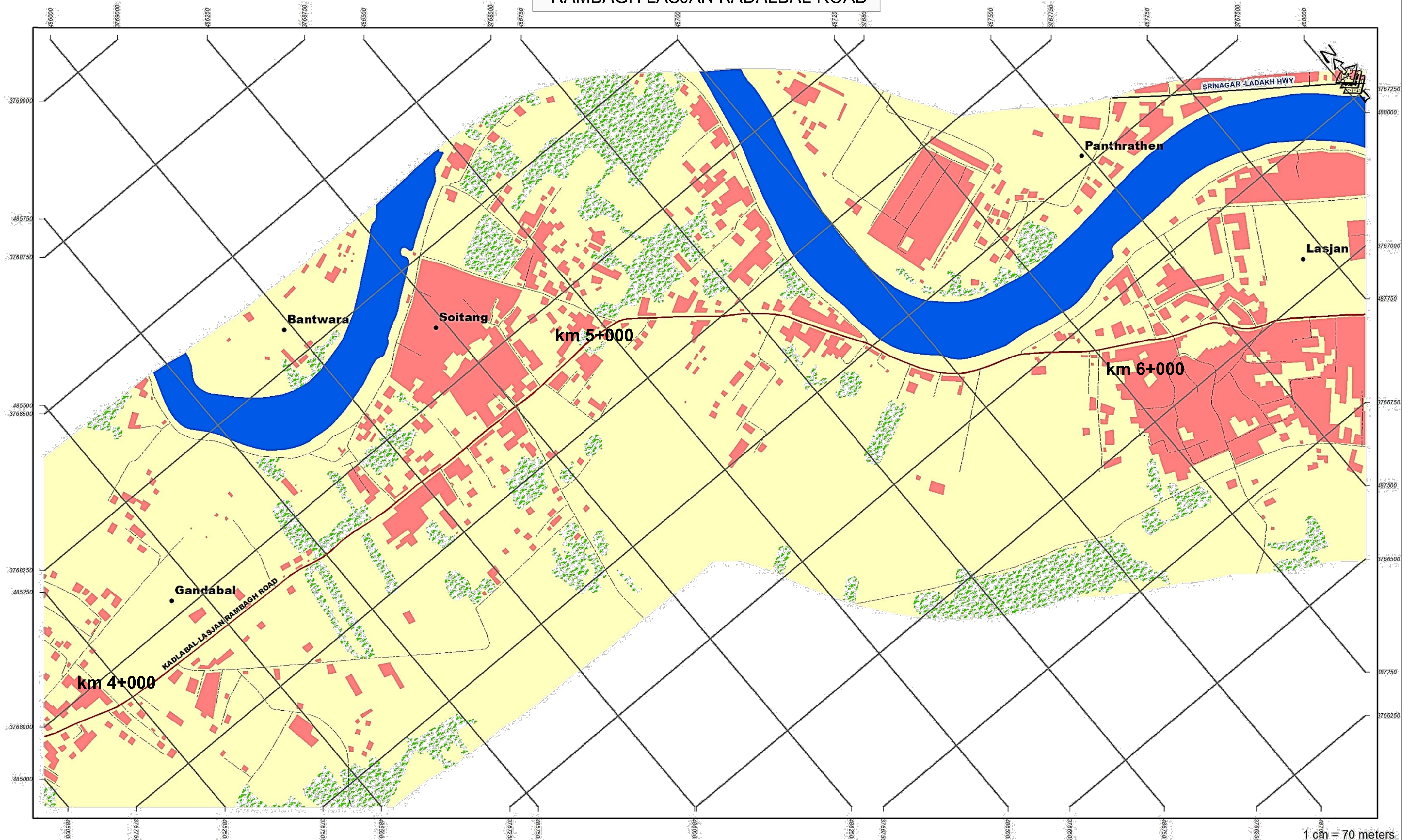
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| ● Importance_LandMark | — Road_Centerline | ■ Water |
| ★ Start_End_Point | ■ Bridge | ■ Vegetation |
| ● Village_Name | ■ Building | ■ Open_Barren_Land |
| — Major_Road | ■ Forest | |
| --- Other_Road | ■ Proposed_Road | |



Project: JHELUM TAWI FLOOD RECOVERY PROJECT
Sub-Project: FOR RECONSTRUCTION OF RAMBAGH LASJAN KADALBAL ROAD UNDER KASHMIR DIVISION
Agency: PROJECT MANAGEMENT UNIT JTFRP

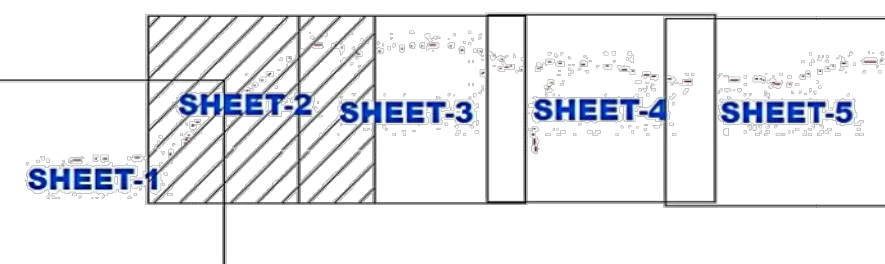


RAMBAGH LASJAN KADALBAL ROAD



1 cm = 70 meters

INDEX MAP



Legend

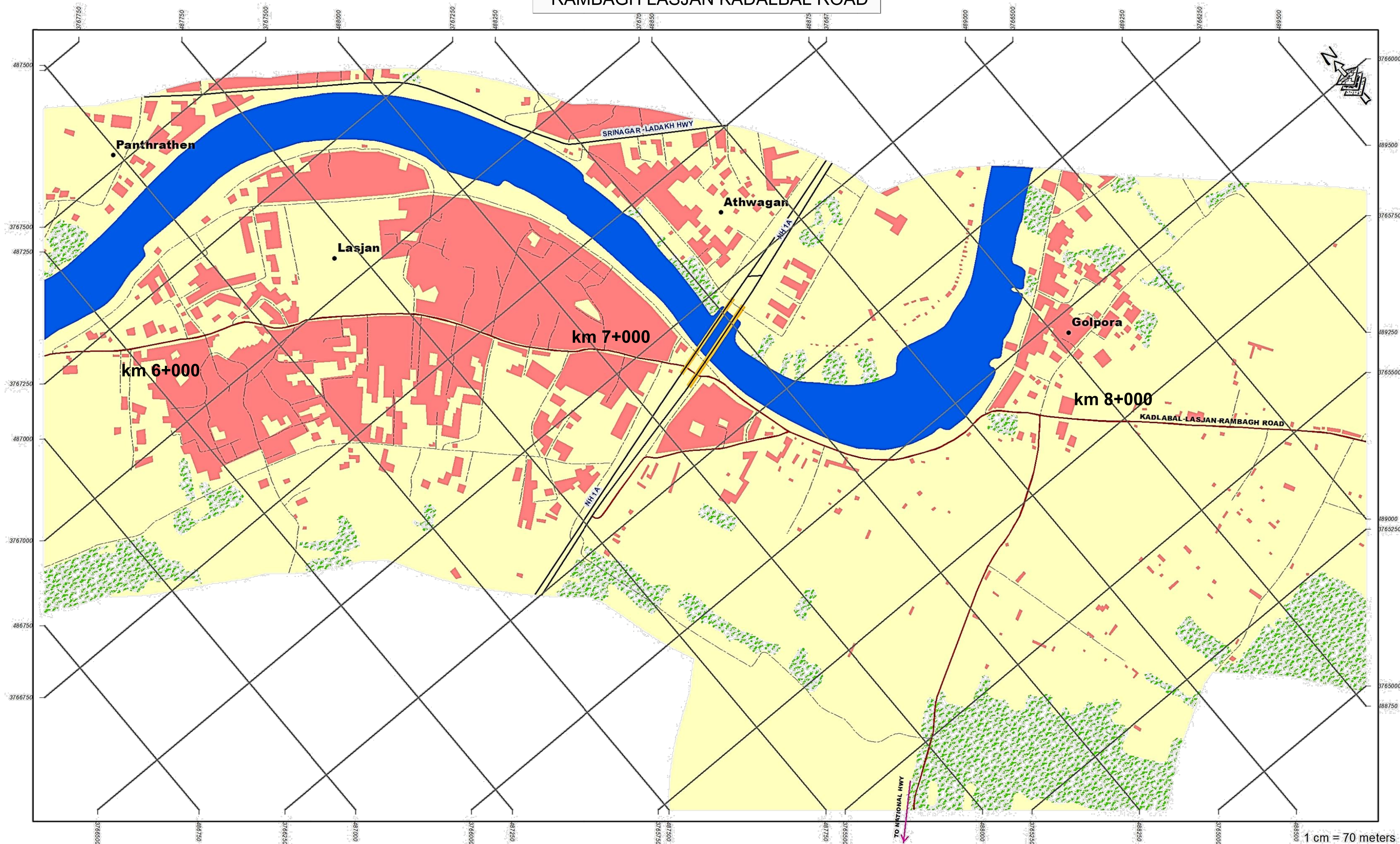
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|-----------------------|-------------------|--------------------|
| ● Importance_LandMark | — Road_Centerline | ■ Water |
| ★ Start_End_Point | ■ Bridge | ■ Vegetation |
| ● Village_Name | ■ Building | ■ Open_Barren_Land |
| — Major_Road | ■ Forest | |
| — Other_Road | ■ Proposed_Road | |



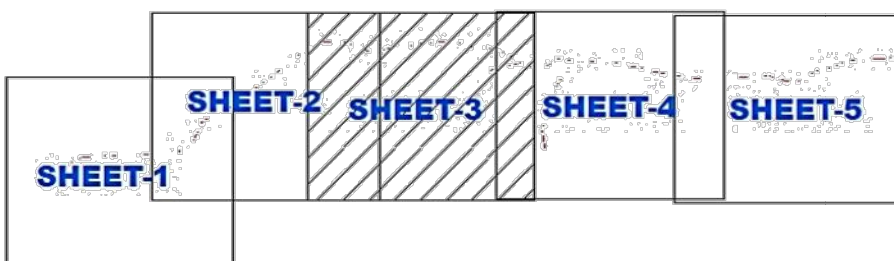
Project: JHELUM TAWI FLOOD RECOVERY PROJECT
Sub-Project: FOR IMPROVEMENT AND UP-GRADATION OF RAMBAGH LASJAN KADALBAL ROAD UNDER JAMMU AND KASHMIR DIVISION
Agency: PIU R&B DEPT(DIVISION - NOWSHERA)



RAMBAGH LASJAN KADALBAL ROAD

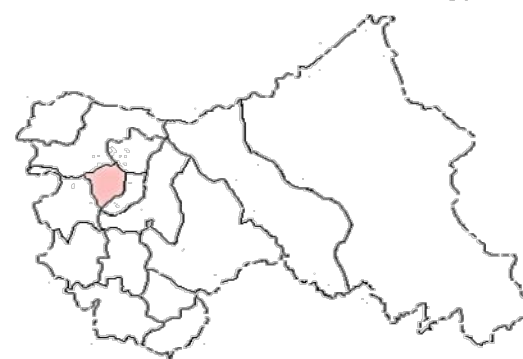


INDEX MAP



Legend

- | | | |
|-----------------------|-------------------|------------------|
| ● Importance_LandMark | — Road_Centerline | Water |
| ★ Start_End_Point | Bridge | Vegetation |
| ● Village_Name | Building | Open_Barren_Land |
| — Major_Road | Forest | |
| — Other_Road | Proposed_Road | |



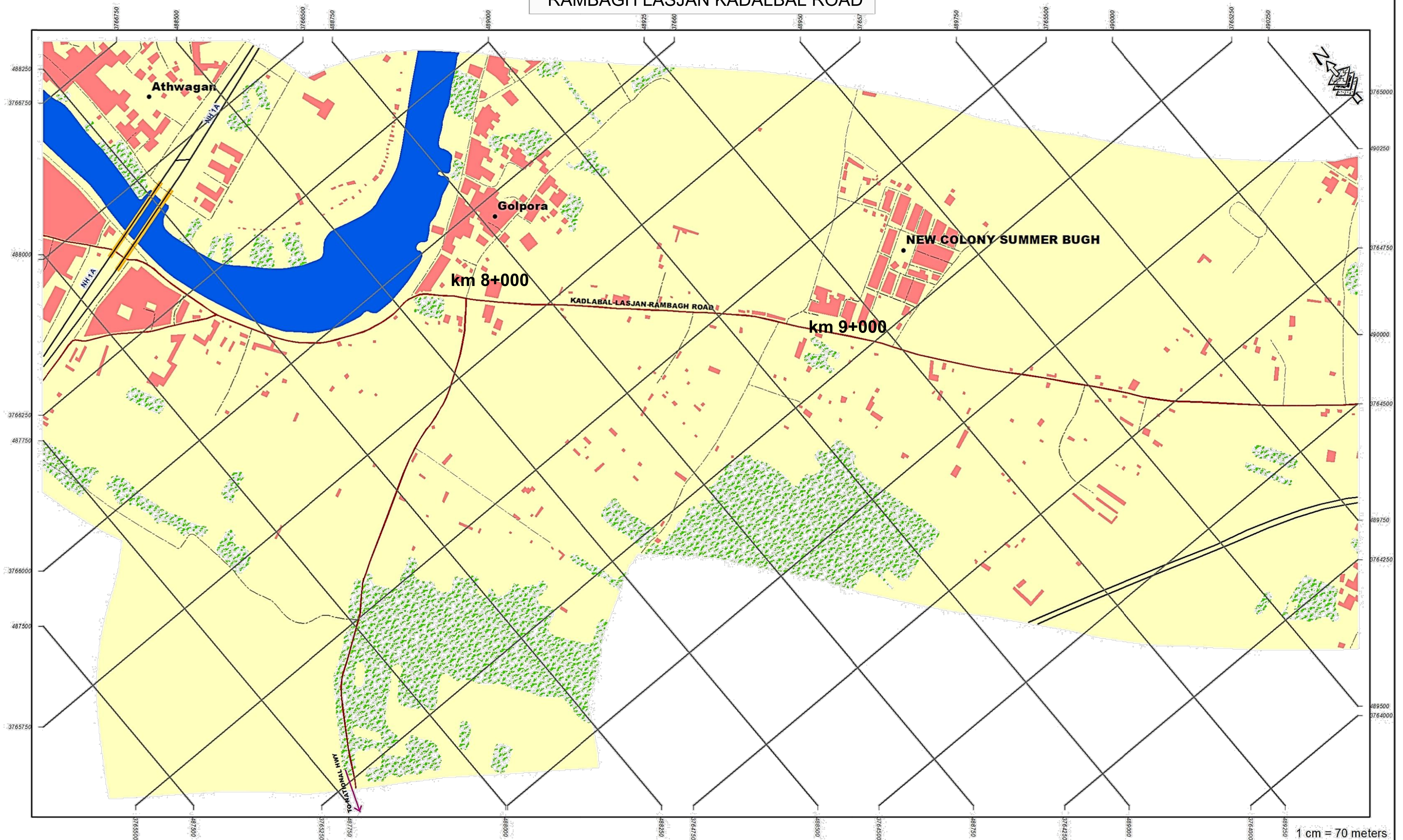
Project: JHELM TAWI FLOOD RECOVERY PROJECT

Sub-Project: FOR RECONSTRUCTION OF
RAMBAGH LASJAN KADALBAL ROAD UNDER
KASHMIR DIVISION

Agency: PROJECT MANAGEMENT UNIT JTFRP

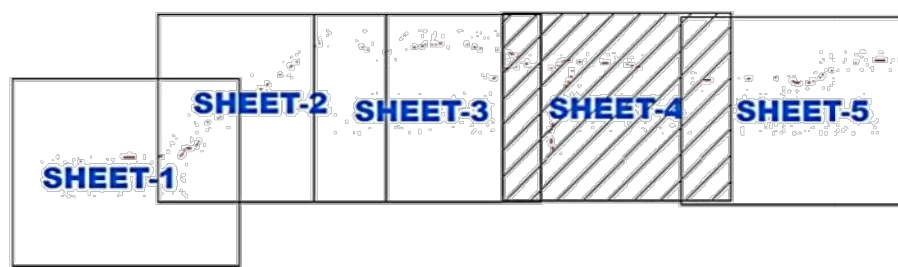
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RAMBAGH LASJAN KADALBAL ROAD



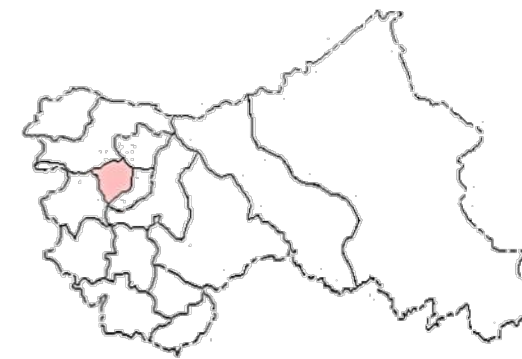
1 cm = 70 meters

INDEX MAP



Legend

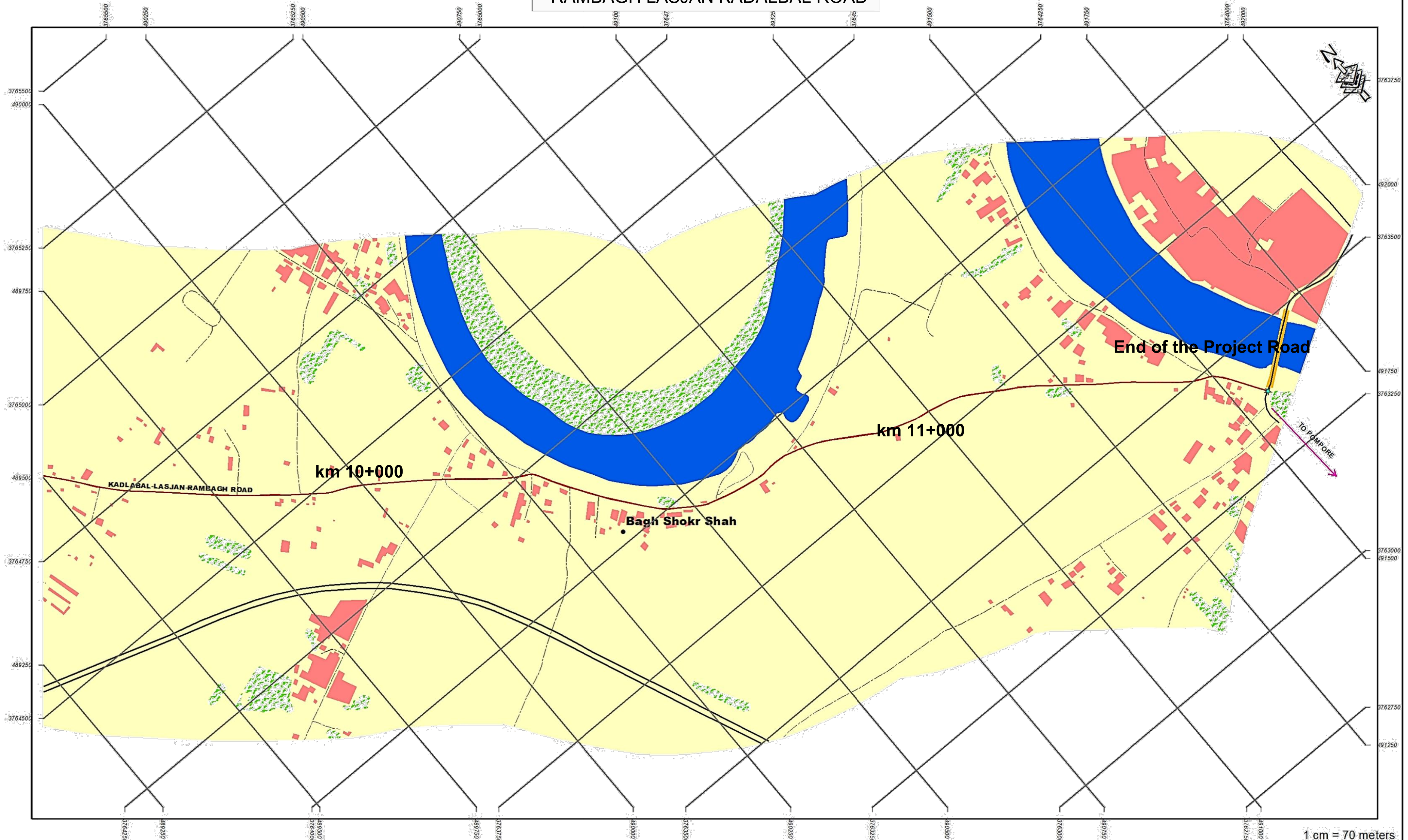
- | | | |
|-----------------------|------------------------|------------------|
| ● Importance_LandMark | — Road_Centerline | Water |
| ★ Start_End_Point | Orange Box Bridge | Vegetation |
| ● Village_Name | Red Box Building | Open_Barren_Land |
| — Major_Road | Light Brown Box Forest | |
| - - - Other_Road | Red Box Proposed_Road | |



Project: JHELUM TAWI FLOOD RECOVERY PROJECT
Sub-Project: FOR RECONSTRUCTION OF RAMBAGH LASJAN KADALBAL ROAD UNDER KASHMIR DIVISION
Agency: PROJECT MANAGEMENT UNIT JTFRP

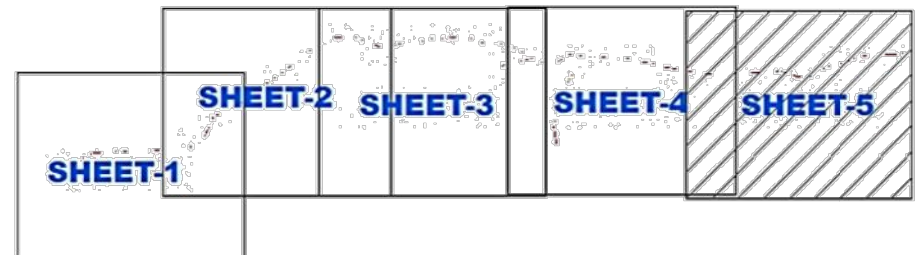
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RAMBAGH LASJAN KADALBAL ROAD



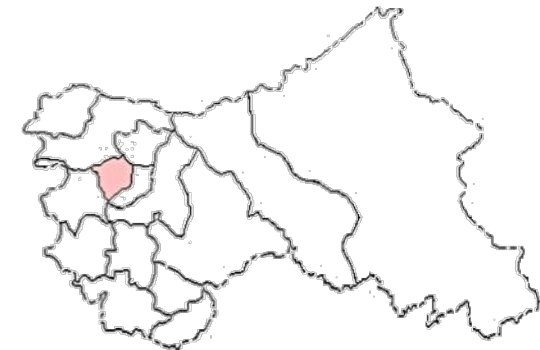
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INDEX MAP



Legend

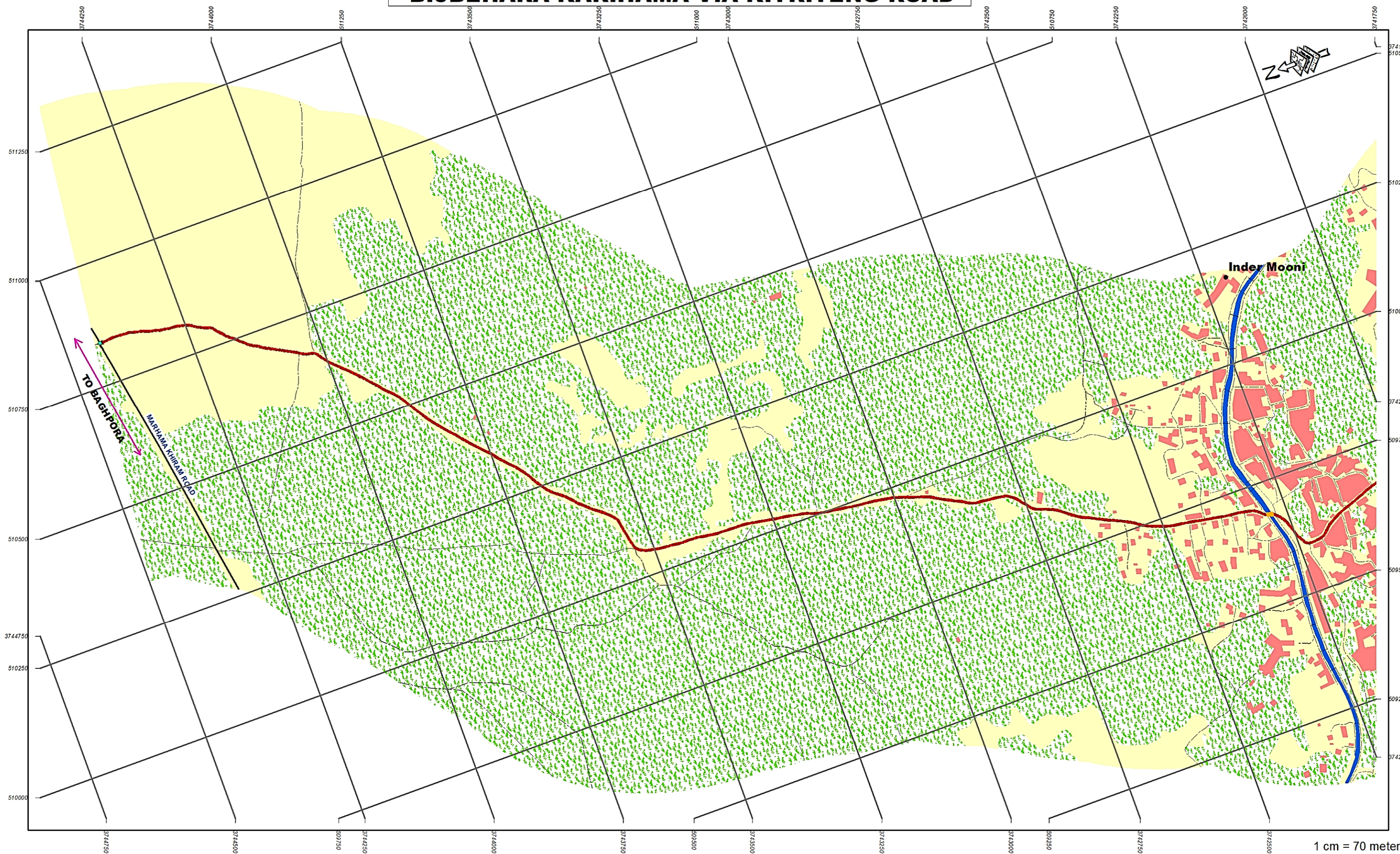
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| ● Importance_LandMark | — Road_Centerline | ■ Water |
| ★ Start_End_Point | ■ Bridge | ■ Vegetation |
| ● Village_Name | ■ Building | ■ Open_Barren_Land |
| — Major_Road | ■ Forest | |
| --- Other_Road | ■ Proposed_Road | |



Project: JHELUM TAWI FLOOD RECOVERY PROJECT
Sub-Project: FOR RECONSTRUCTION OF RAMBAGH LASJAN KADALBAL ROAD UNDER KASHMIR DIVISION
Agency: PROJECT MANAGEMENT UNIT JTFRP

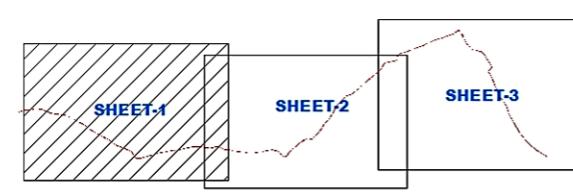


BIJBEHARA KARIHAMA VIA KITRITENG ROAD



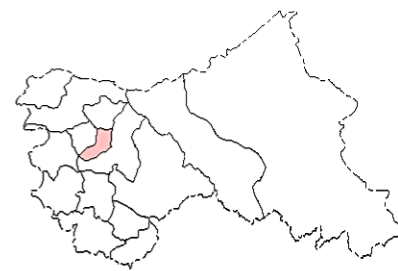
1 cm = 70 meters

INDEX MAP



Legend

- | | | |
|-----------------------|-------------------|-----------------------|
| ▲ Importance LandMark | — Road Centerline | Water |
| ★ Start End Point | Proposed Road | Swamp |
| ● Village Name | Major Road | Vegetation |
| Park | Other Road | Swamp Area |
| Bridge | Building | Open/Agriculture Land |
| Restricted Area | Forest | |



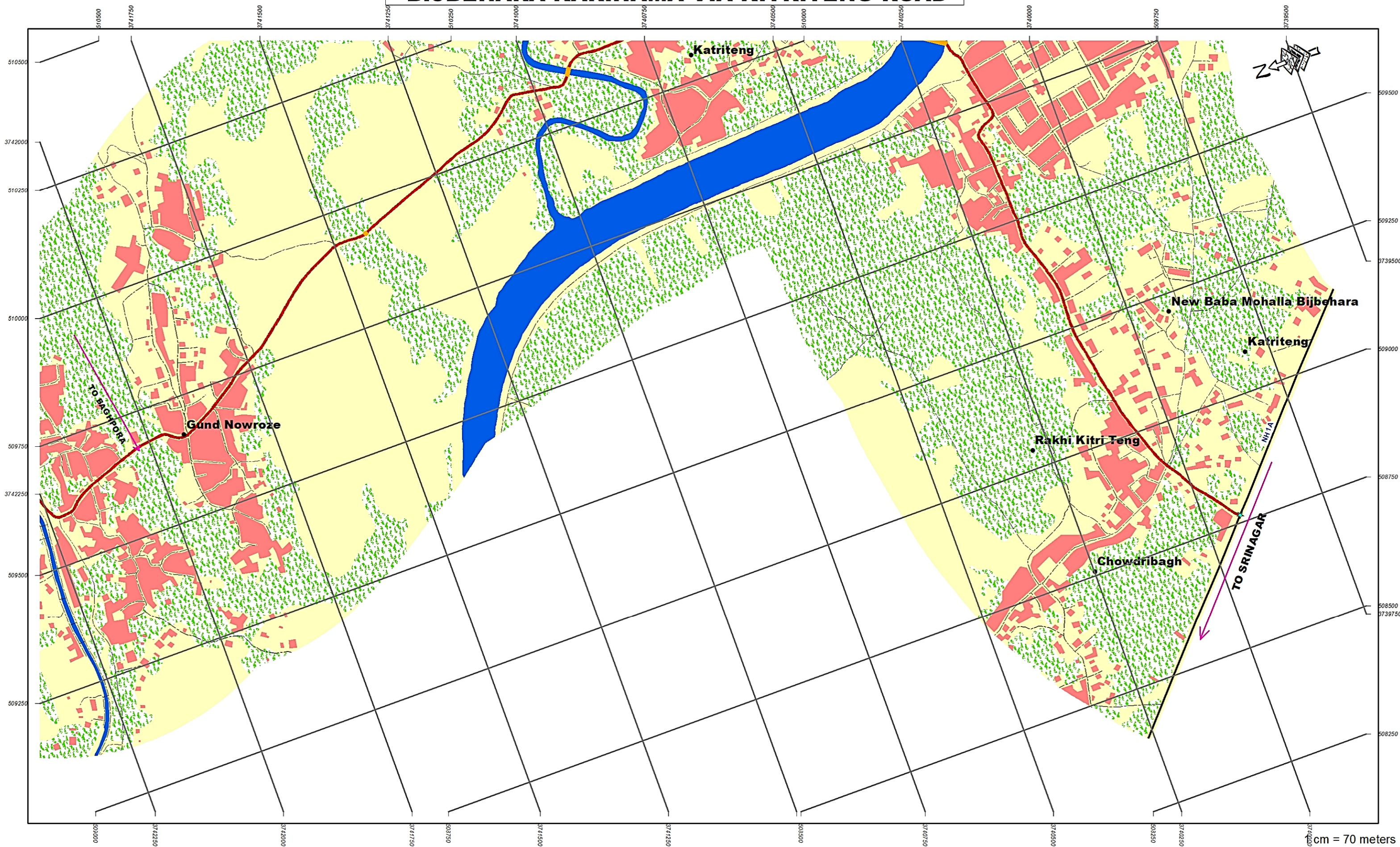
Project: JHELM TAWI FLOOD RECOVERY PROJECT

Sub-Project: FOR RECONSTRUCTION OF BIJBEHARA KARIHAMA VIA KITRITENG ROAD UNDER KASHMIR DIVISION

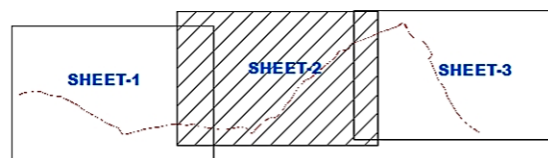
Agency: PROJECT MANAGEMENT UNIT JTFRP



BIJBEHARA KARIHAMA VIA KITRITENG ROAD



INDEX MAP



Legend

▲ Importance LandMark	— Road Centerline	Water
★ Start End Point	Proposed Road	Swamp
● Village Name	Major Road	Vegetation
Park	Other Road	Swamp Area
Bridge	Building	Open/Agriculture Land
Restricted Area	Forest	



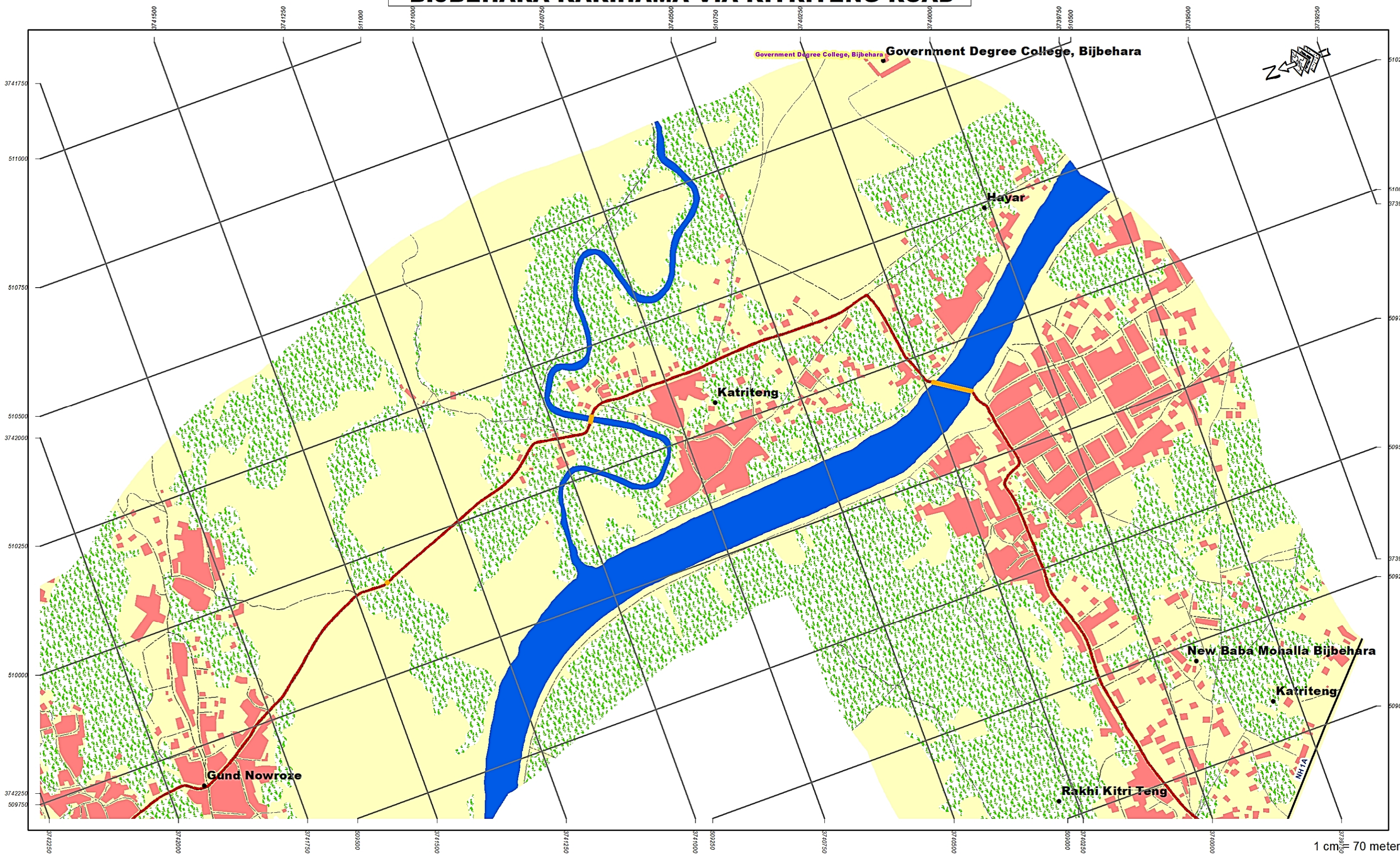
Project: JHELM TAWI FLOOD RECOVERY PROJECT

Sub-Project: FOR RECONSTRUCTION OF BIJBEHARA KARIHAMA VIA KITRITENG ROAD UNDER KASHMIR DIVISION

Agency: PROJECT MANAGEMENT UNIT JTRP

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BIJBEHARA KARIHAMA VIA KITRITENG ROAD

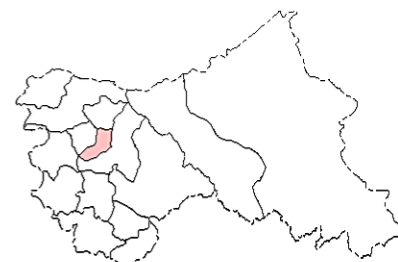


INDEX MAP



Legend

- | | | |
|-----------------------|-------------------|-----------------------|
| ▲ Importance LandMark | — Road Centerline | Water |
| ★ Start End Point | Proposed Road | Swamp |
| ● Village Name | Major Road | Vegetation |
| Park | Other Road | Swamp Area |
| Bridge | Building | Open/Agriculture Land |
| Restricted Area | Forest | |



Project: JHELM TAWI FLOOD RECOVERY PROJECT

Sub-Project: FOR RECONSTRUCTION OF
BIJBEHARA KARIHAMA VIA KITRITENG ROAD
UNDER SHMIRKA DIVISION

Agency: PROJECT MANAGEMENT UNIT JTRP

eptisa

||≡| CULVERT DRAWINGS |≡||

← *Bijbehera*

Karihama National Highway via Kitriteng ➡

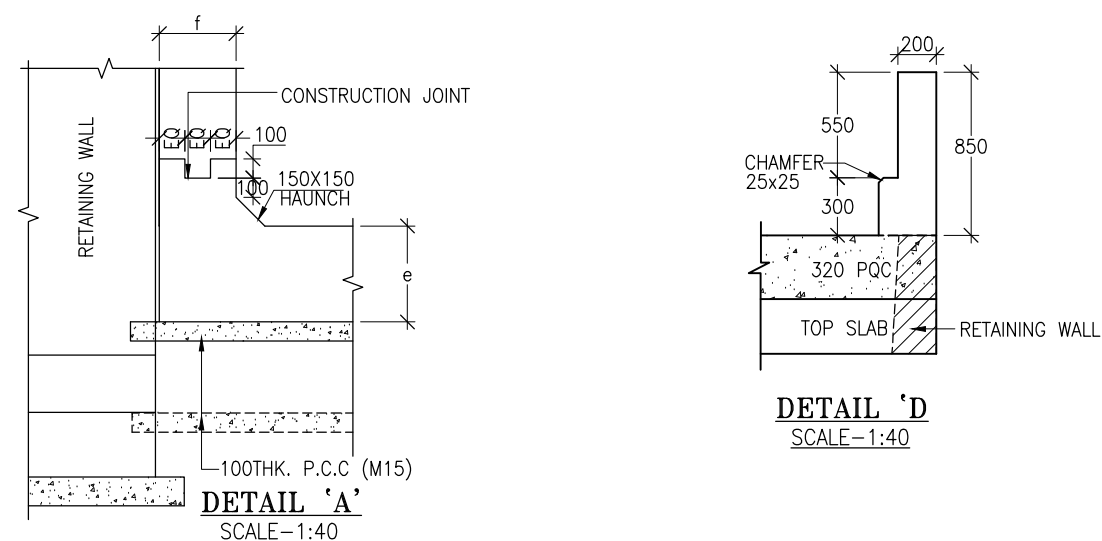
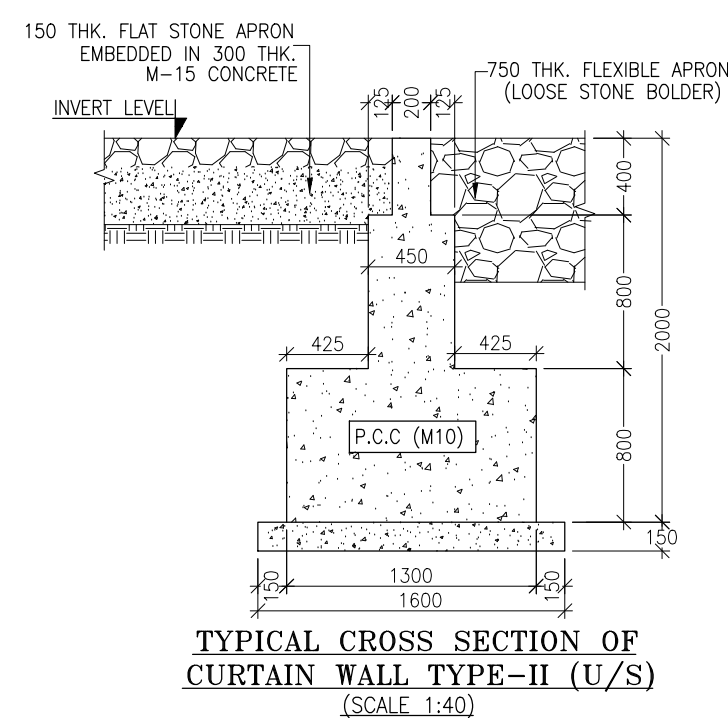
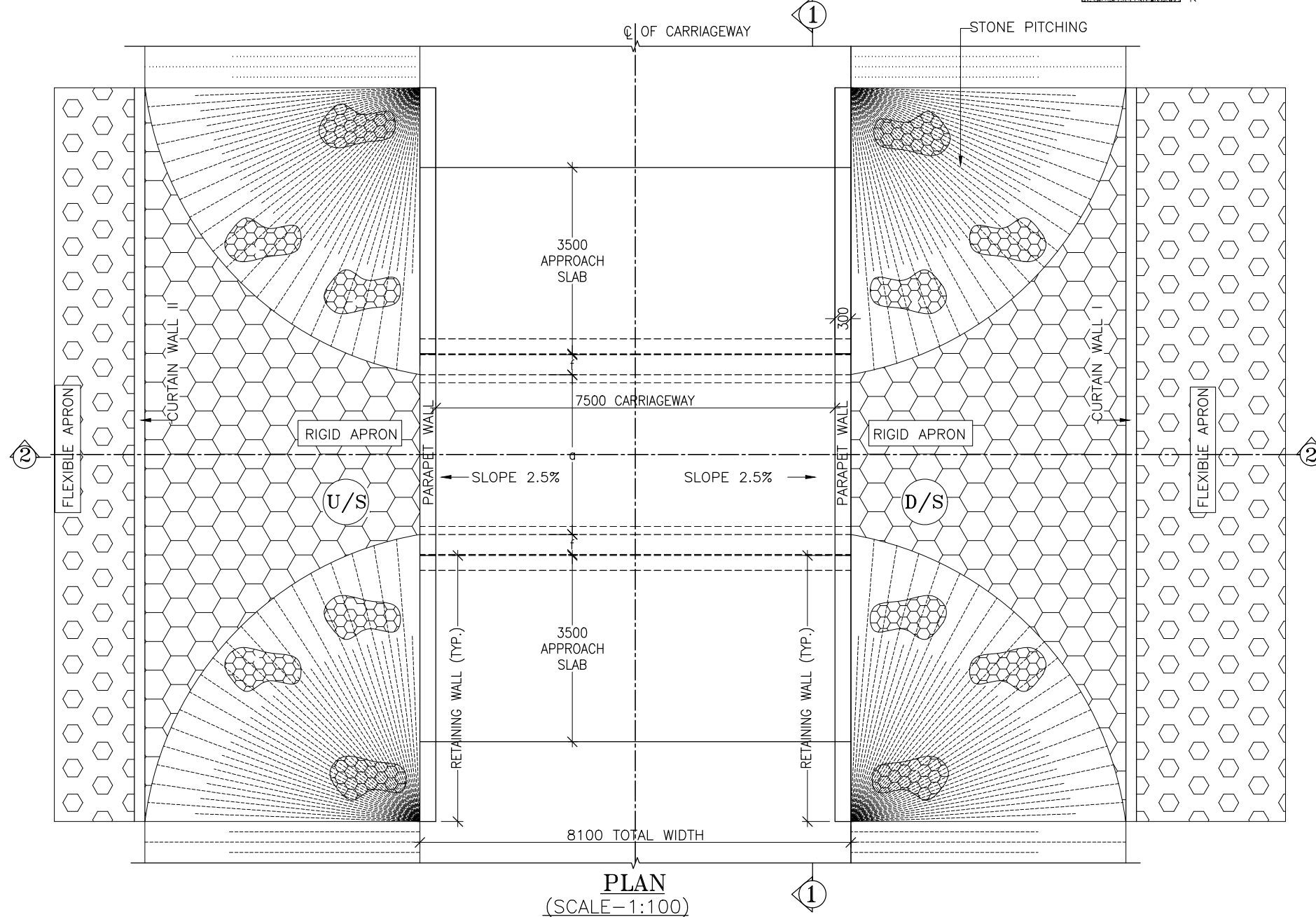
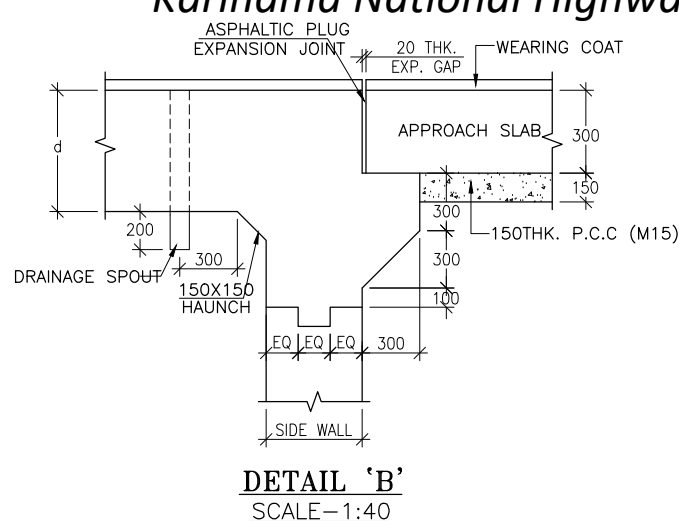
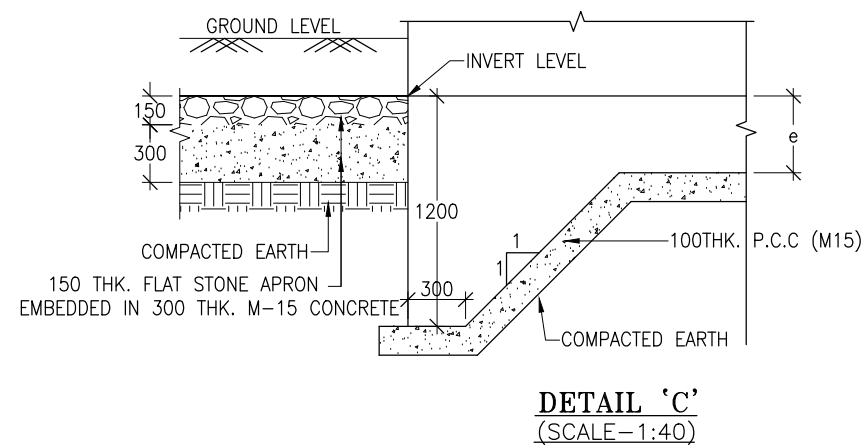
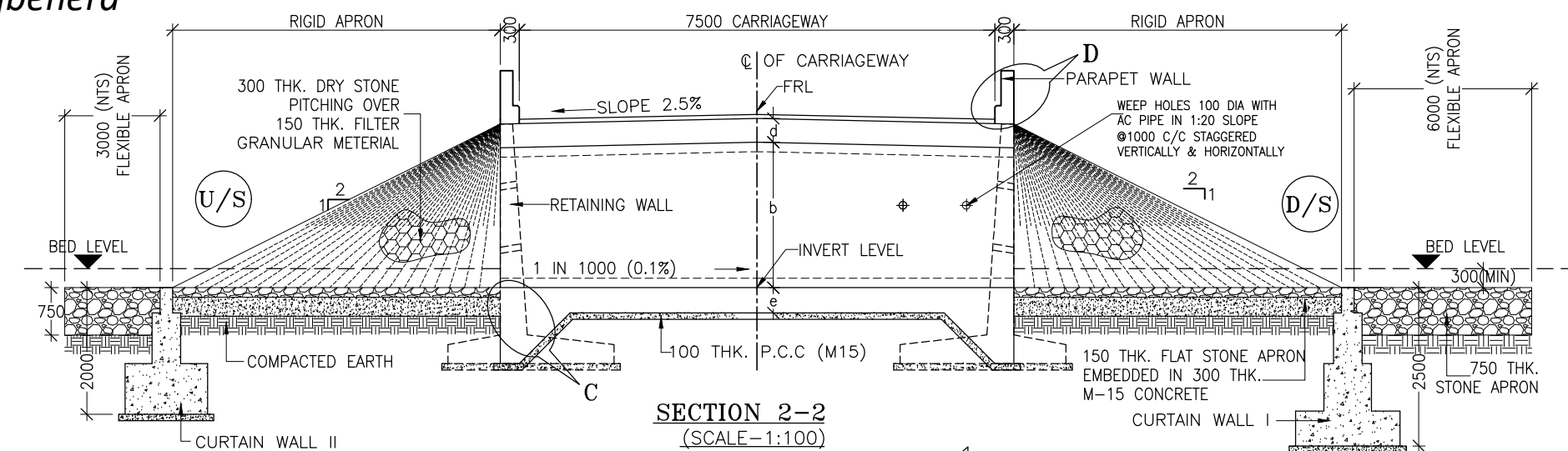
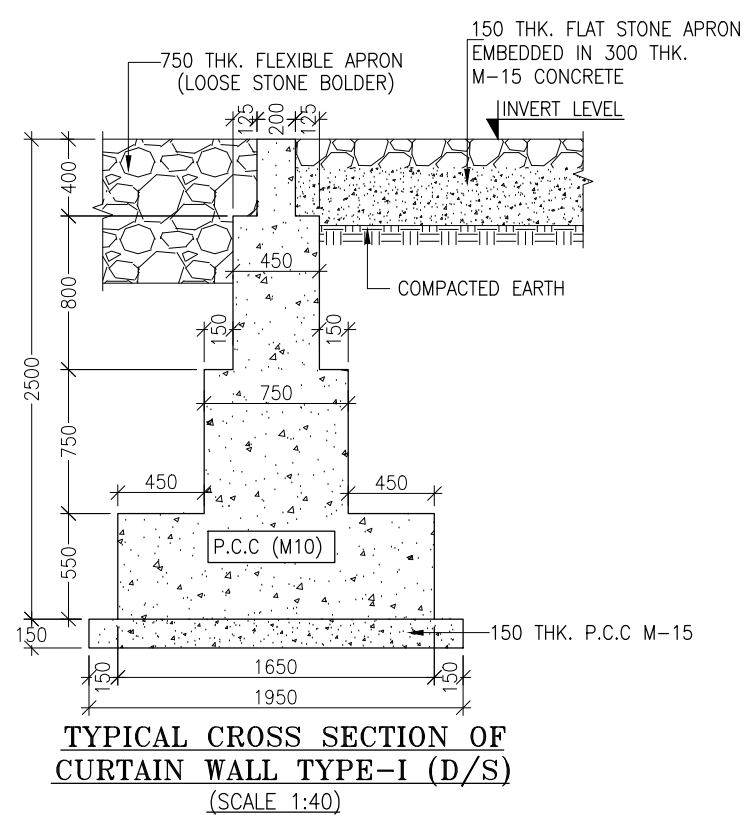


TABLE SHOWING SILENT DIMENSIONS

BOX CELL DESIGNATION	a (mm)	b (mm)	d (mm)	e (mm)	f (mm)
1/64/0	6000	4000	680	720	750

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETRES, LEVELS ARE IN METRES AND CHAINAGES ARE IN KILOMETRES, UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT ROAD PLAN AND PROFILE DRAWING.
3. THE STRUCTURE IS DESIGNED FOR LIVE LOAD COMBINATION OF 3 LANE CLASS A OR 1-LANE OF 70 R+1-LANE OF CLASS A, WHICHEVER PRODUCES SEVERE.
4. GRADE OF CONCRETE FOR VARIOUS ELEMENTS SHALL BE AS FOLLOWS:
 - a) RCC BOX.....M25
 - b) RCC RETAINING WALL.....M25
 - c) PCC LEVELLING COURSE.....M15
 - d) PCC CURTAIN WALL.....M20
 - e) PARAPET WALL.....M35
5. GRADE OF STEEL SHALL BE Fe-500 (H.Y.S.D. REBAR CONFORMING TO IS-1786)
6. BACK FILLING BEHIND THE STRUCTURE SHALL CONSIST OF SELECTED EARTH CONFORMING TO APPENDIX 6 OF IRC:78-2014 HAVING PROPERTIES $\phi < 30^\circ$, $C=0$, $\gamma = 2.0T/M^3$
7. COMPRESSIBLE FILLER BOARD SHALL BE PROVIDED IN ALL EXPANSION GAPS AND SEALED WITH POLY-SULPHIDE SEALANT.
8. FOUNDATION OF BOX SHALL BE PLACED OVER A FIRM STRATA HAVING BEARING CAPACITY EQUAL TO $12T/M^2$ IN GENERAL. IF THE MATERIAL ENCOUNTERED IS SOFT , SPONZY OR OTHER UNSUITABLE SOIL, SUCH UNSUITABLE MATERIAL SHALL BE TOTALLY REMOVED TO SUCH DEPTH , WIDTH & LENGTH, AS DIRECTED BY THE ENGINEER. THE EXCAVATED AREA SHALL BE BACKFILLED WITH APPROVED GRANULAR MATERIAL & THOROUGHLY COMPACTED UP TO THE SPECIFIED LEVEL.
9. 600MM THICK FILTER MEDIA SHALL BE PROVIDED BEHIND SIDE WALLS AND WING WALLS AS PER IRC:78-2014.
10. ALL THE LEVELS AND CAMBERS TO BE VERIFIED WITH RESPECT TO PLAN & PROFILE DRAWINGS BEFORE EXCAVATION. ANY DISCREPANCY NOTED SHOULD BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY.
11. BACK FILLING BEHIND WALLS SHALL BE DONE SIMULTANEOUSLY ON EITHER SIDE OF THE STRUCTURE WITH HEIGHT DIFFERENCE NOT MORE THAN 1.0M. BACK FILLING SHALL BE DONE ONLY AFTER THE TOP SLAB IS CONCRETED AND CURED FOR 14 DAYS.
12. SPRADING & COMPACTED OF SAND WILL BE DONE IN ACCORDANCE WITH CLAUSE 401.3.2 OF SPECIFICATION FOR ROAD & BRIDGE WORKS BY MINISTRY OF ROAD TRANSPORT & HIGHWAY



CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
***(Bijbehera to Karihama National Highway via Kitriteng
in Anantnag District)***

DESIGN CONSULTANT:



Eptisa Servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY : PD

DESIGNED BY : SD

APPROVED BY : KG

SCALE : AS SHOWN

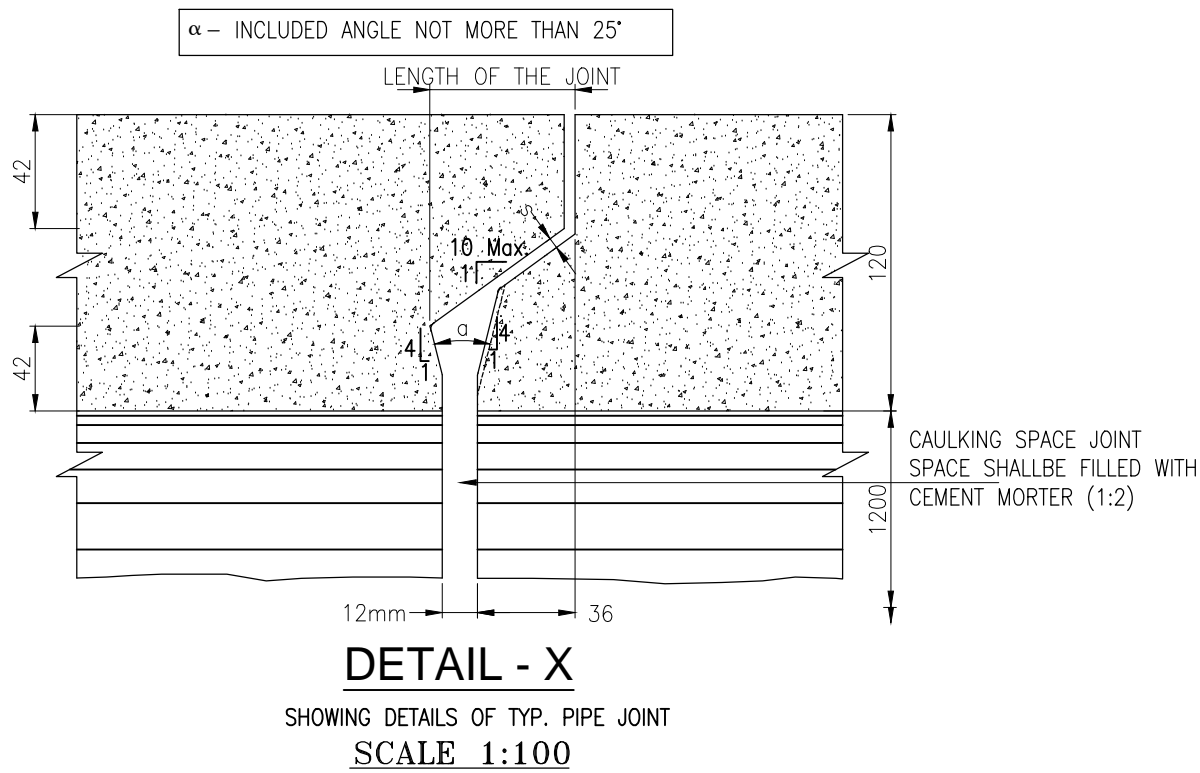
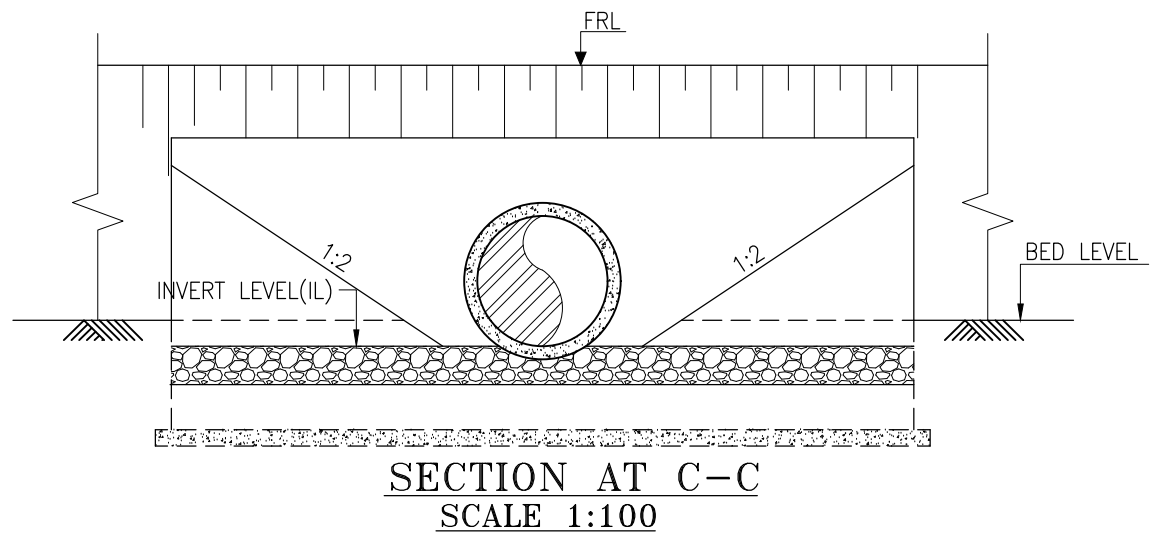
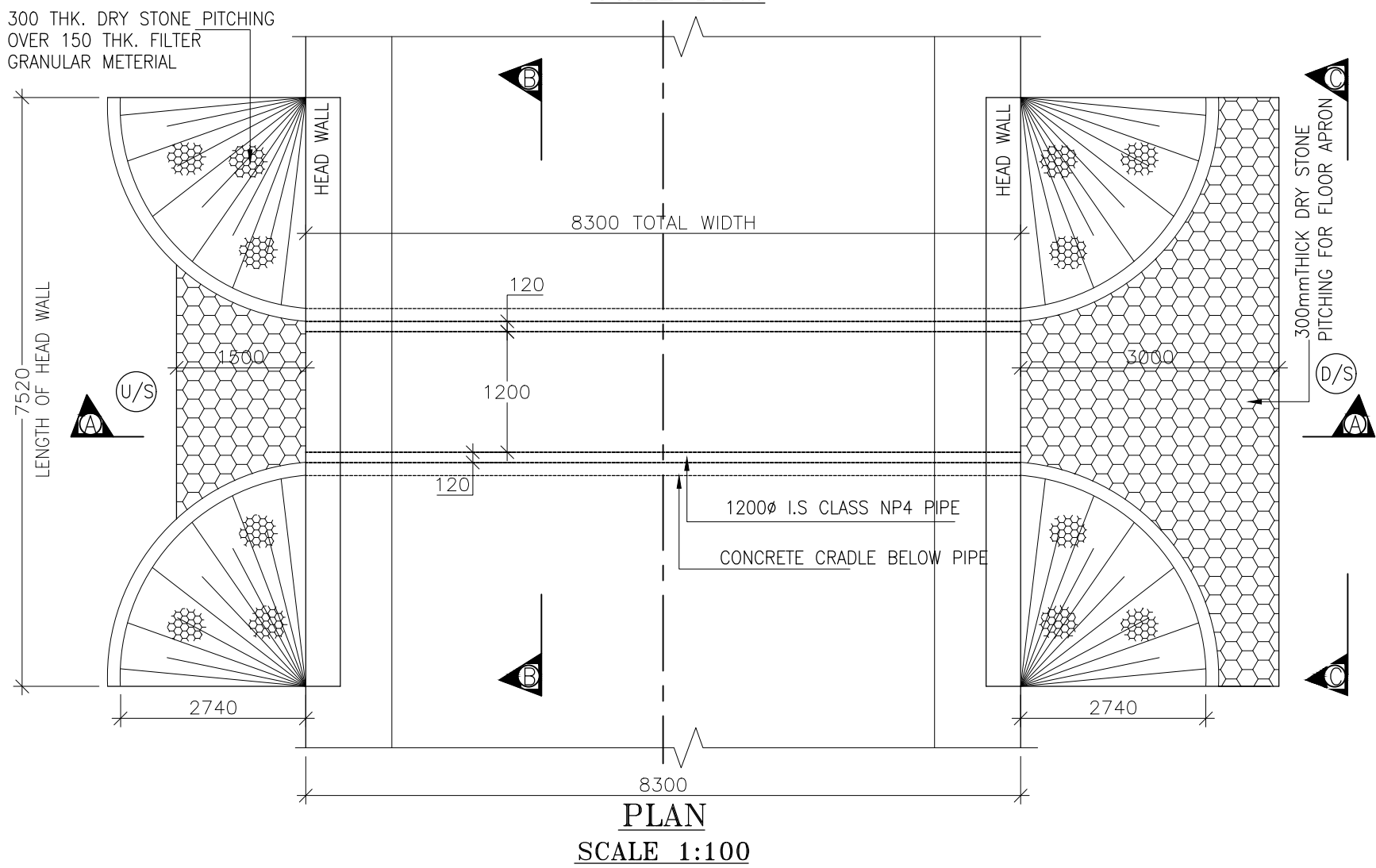
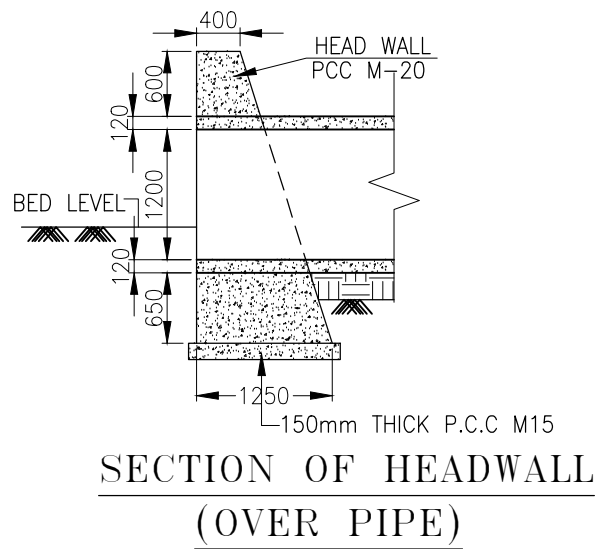
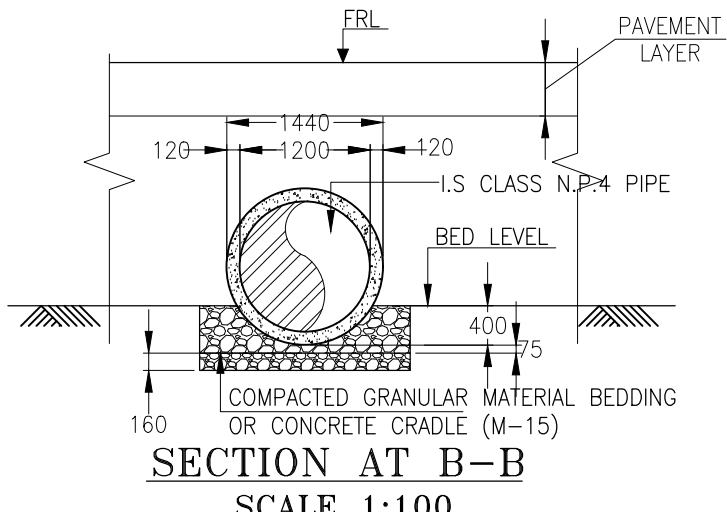
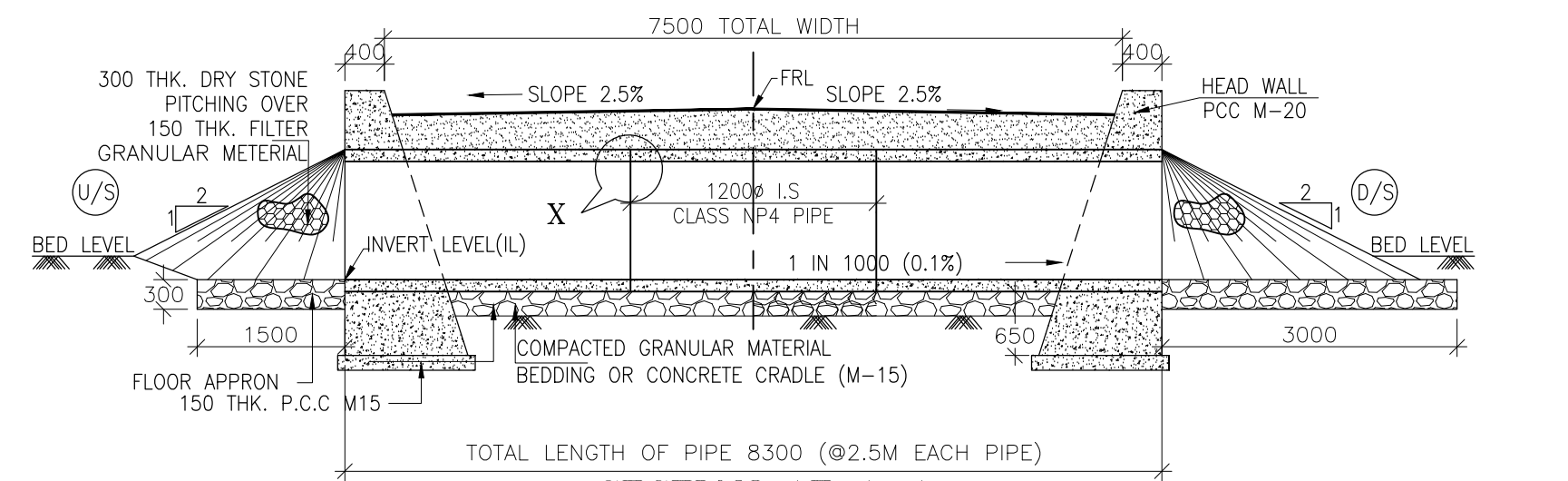
TITLE :

TYPICAL GENERAL ARRANGEMENT DRAWING FOR SINGLE BOX CULVERT

DRG. NO. : EPTISA/JTFRP/DPR/J&K/BOX/GAD/01

REVISION : R-1

September 2019



NOTES:-

1. ALL DIMENSIONS ARE IN mm, EXCEPT OTHERWISE MENTIONED.
2. NO DIMENSION SHALL BE SCALED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ROAD DRAWINGS. FRL & CAMBER / SUPER ELEVATION AT PARTICULAR LOCATION SHALL BE VERIFIED WITH THE HIGHWAY DWG. DISCREPANCY, IF ANY, IS TO BE IMMEDIATELY BROUGHT TO THE NOTICE OF ENGINEER FOR NECESSARY MODIFICATION IN THE DRAWING.
4. HUME PIPE (NP4 TYPE), SHALL CONFORM TO IS : 458-2003.
5. COMPACTED GRANULAR BED SHALL CONFORM TO MORT&H SPECIFICATION CLAUSE NO.2904.
6. LONGITUDINAL SLOPE OF WIDENED PIPE SHALL BE 1 : 1000 (MIN.)
7. LENGTH, LOCATION, ORIENTATION & INVERT LEVEL OF PIPE CULVERT SHALL BE ADJUSTED TO SUIT SITE CONDITION AND AS APPROVED BY THE ENGINEER.
8. TRENCHES SHALL BE BACKFILLED IMMEDIATELY AFTER THE PIPES HAVE BEEN LAID AND THE JOINTING MATERIAL HAS HARDENED.
9. PIPE SHALL BE JOINTED BY FLUSH JOINT METHOD AS PER THE DETAILS GIVEN IN SECTION 2906 OF MORT&H SPECIFICATIONS OF ROAD & BRIDGE WORKS.
10. FLOOR APRON SHALL BE PROVIDED AT NON-IRRIGATION CROSS DRAINAGE WORKS ONLY.

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
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**(Bijbehera to Karihama National Highway via Kitriteng
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DESIGN CONSULTANT:



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Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV.	DATE	DESCRIPTION

DRAWN BY :	PD
DESIGNED BY :	SD
APPROVED BY :	KG
SCALE :	AS SHOWN

TITLE :	TYPICAL GENERAL ARRANGEMENT DRAWING FOR SINGLE CELL PIPE CULVERT
DRG. NO. :	EPTISA/JTFRP/DPR/J&K/PIPE/GAD/01
REVISION : R-1	September 2019