

Government of Jammu & Kashmir



JHELUM & TAWI FLOOD RECOVERY PROJECT

Jammu Province

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

(Malaini to Chakrabatti Road in Doda District)

(Length : 10.059 km)

(DRAWINGS)

(Detailed Project Report)

September 2019

eptisa

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 to 04	04
5.	Strip Plan	EPTISA/JTFRP/DPR/J&K/SP-01 to 02	02
6.	Plan and Profile	EPTISA/JTFRP/DPR/J&K/PP-01 to 10	10
7.	Horizontal Alignment Report	EPTISA/JTFRP/DPR/J&K/HAR-01 to 07	07
8.	Vertical Alignment Report	EPTISA/JTFRP/DPR/J&K/VAR-01 to 04	04
9.	Signage Plan	EPTISA/JTFRP/DPR/J&K/SP-01 to 12	12
10.	Utility Relocation Plan-(For Electricity Department)	EPTISA/JTFRP/DPR/J&K/URP-01 to 12	12
11.	Utility Relocation Plan-(For Telephone Department)	EPTISA/JTFRP/DPR/J&K/URP-01 to 12	12
12.	Utility Relocation Plan-(For Water Department)	EPTISA/JTFRP/DPR/J&K/URP-01 to 12	12
13.	Tree Cutting	EPTISA/JTFRP/DPR/J&K/TC-01 to 12	12
14.	<i>Miscellaneous Drawings</i>		
i.)	Road Signs & Road Delineators – (3 Sheets)	EPTISA/JTFRP/DPR/J&K/MISC-01 to 03	03
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
15.	<i>GIS Mapping</i>		02
16.	Details of PCC Retaining Wall	EPTISA/JTFRP/DPR/J&K/RW-01	01
17.	Dimension Detail of Breast Wall	EPTISA/JTFRP/DPR/J&K/BW/01	01
18.	<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/PIPE/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 (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT:  Eptisa <i>Servicios de Ingeniería S.L</i> 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		TITLE : LIST OF DRAWING
		DRAWN BY : SD	DESIGNED BY : SCK/MM	APPROVED BY : KG
		REV	DATE	DESCRIPTION

≡ LEGEND, ABBREVIATIONS & GENERAL NOTES ≡

LEGEND

A. PLAN

a) Existing

1	Security Room		31	Divider		61	Kancha House Residential	kh-r.	
2	Pump house		32	Dusbin		62	Km Stone	kmp.	
3	Solar		33	Earthen Road		63	Lamp Post	lp.	
4	Rail trac		34	Bitumen Road		64	Semi Pucca House Commercial	sp-c.	
5	Railing		35	Existing Center Line		65	Semi Pucca House Residential	sp-r.	
6	Telephone Pst		36	Shed		66	Survey Station	stn.	
7	Under Construction Building		37	Sign Board		67	Pucca House One Storied Commercial	ph-i-c.	
8	Hoarding Post		38	Bedi		68	Pucca House One Storied Residential	ph-i-r.	
9	Water Tank		39	Canal / River		69	Pucca House Two Storied Commercial	ph-ii-c.	
10	Wire Crossing Details		40	Drain		70	Transformer	tns.	
11	P.c.c Road		41	Alart Post		71	TREE 1 (A?300 TO A?600)	t1	
12	Pucca House One Storied Commercial Residential		42	Compound wall		72	TREE 2 (A?600 TO A?900)	t2	
13	Pucca House Two Storied Residential		43	Fencing		73	TREE 3 (A?900 TO A?1200)	t3	
14	Abandoned Building		44	Gate		74	TREE 4 (A?1200 TO ABOVE)	t4	
15	Damage Culvert		45	GPS Pillar					
16	Damage Pipe Culvert		46	Reference Pillar					
17	Ep Box		47	Electric Post					
18	Hotel		48	Guard Wall					
19	Retaining Wall		49	Temple / Mandir					
20	Ohe		50	Pond / Ditch / Water Logged					
21	Parking		51	Nala / Natural Stream					
22	Shoulder		52	Petrol Pump					
23	Pave Shoulder		53	Height Must Light					
24	Pavement		54	Water Tap					
25	Pipe Culvert		55	Wildlife Sanctuary Sign Board					
26	Seating bench		56	H.F.L					
27	Showroom		57	Toilet					
28	Stair		58	Handpump/Tube well					
29	Chamber		59	OFC					
30	Cover Drain		60	Kancha House Commercial					

GENERAL NOTES

A) General

1. All angles are in degree (°) – minute (') – second (") format.
2. All distances 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.

B) Geometric Design

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

b) Proposed

A. PLAN

- Proposed Center Line
- Edge of Carriageway
- Edge of Unpaved Shoulder
- Proposed Chainage

B. PROFILE

- Finished Grade Line
- Existing Grade Line

CLIENT :



Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-180 009.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
(Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT :

eptisa
Eptisa Servicios de Ingeniería S.L
Unit 1205, 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

TITLE :

LEGEND, ABBREVIATIONS & GENERAL NOTES

DRAWN BY : SD

DESIGNED BY : SCK/MM

APPROVED BY : KG

SCALE : N.T.S

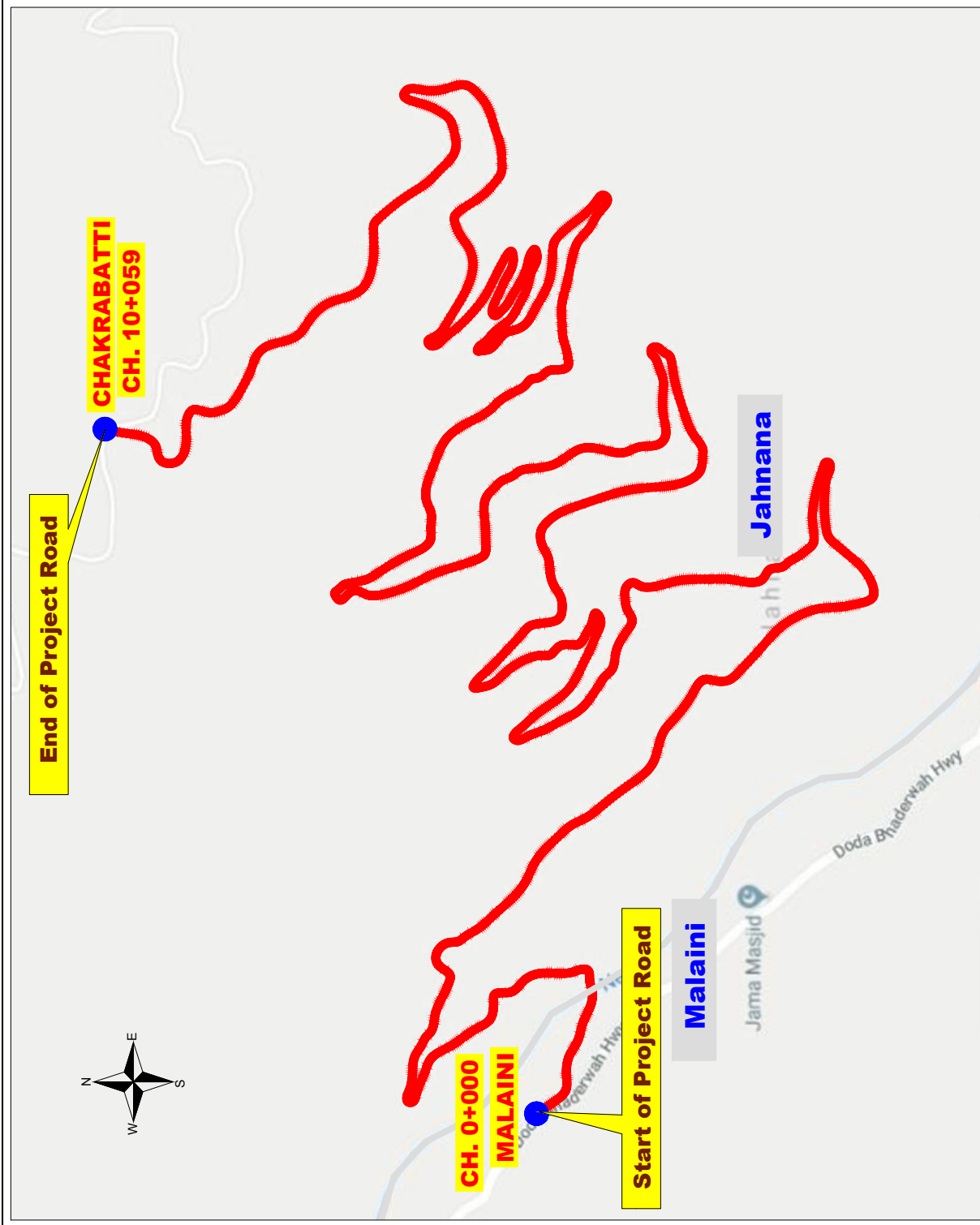
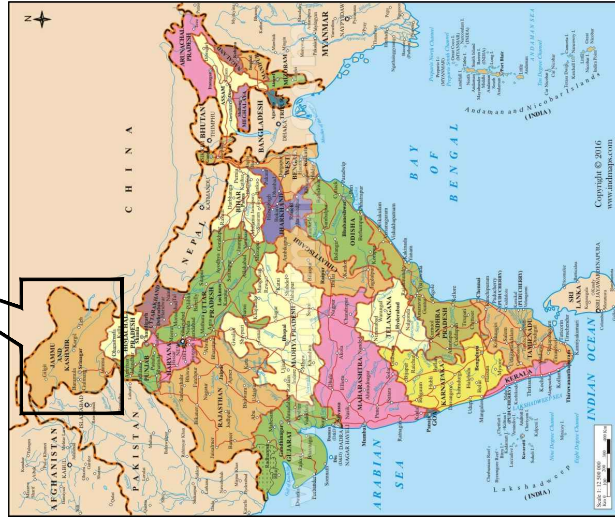
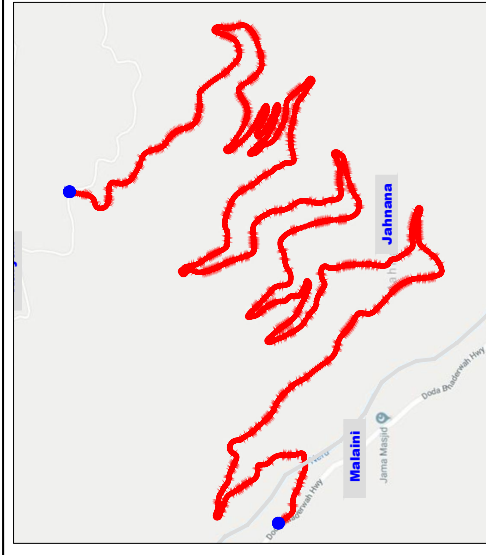
REV. DATE DESCRIPTION

REVISION : R-1



DRG. NO. : EPTISAJTFRRPDRJ08K1LEGEND/01

SEPTEMBER 2019

☰ INDEX MAP ☰



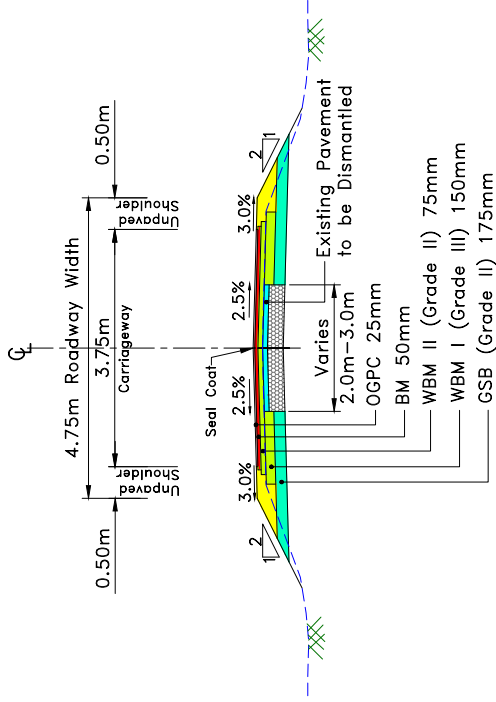
— Project Road Stretch
— Other Road

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 (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT:  Eptisa Servicios de Ingenieria S.L. Unit: 1203, 12th floor, Tower 1, PS Sriji Corporate Park, Plot No. 2, Block EP & GP, Sector v, Salt Lake Kolkata - 700091, West Bengal Ph: 033-40347200 www.eptisa.com		TITLE : Index Map
		DRAWN BY : SD	DESIGNED BY : SCKMM	APPROVED BY : KG
		REV. DATE DESCRIPTION	SCALE : N.T.S	REVISION : R-1
				September 2019

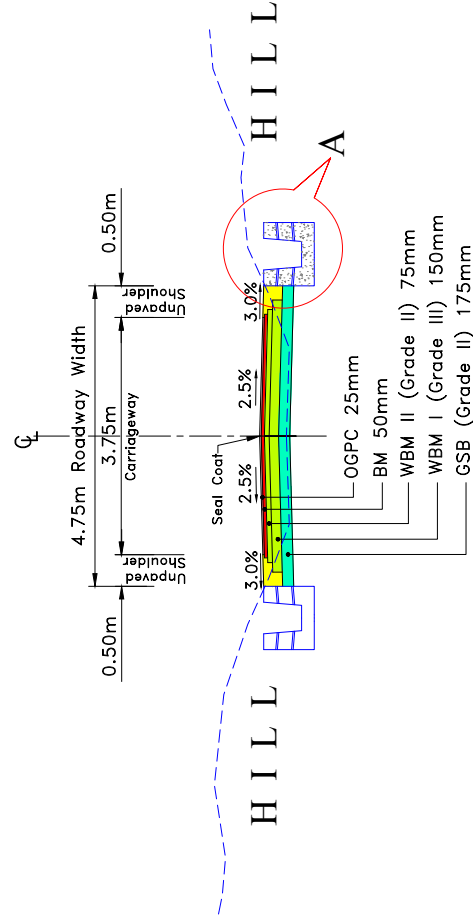
☰ TYPICAL CROSS SECTIONS ☰

Note:

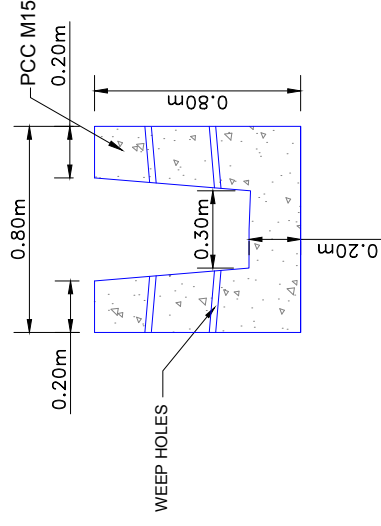
1. PCC upto 75mm thick shall be done by BM.
2. PCC from 75mm to 225mm thick shall be done by WBM after dismantling Existing Bituminous Surface.
3. PCC of thickness more than 225mm shall be done GSB after dismantling Existing Bituminous Surface.
4. PCC shall decided based on difference in level of FRL and existing level and/or level after dismantling and recompaction of Existing Bituminous Surface.



TYPE - 1 : TYPICAL CROSS SECTION OF SINGLE LANE CARRIAGEWAY AT CONCENTRIC STRETCH



TYPE - 2 : TYPICAL CROSS SECTION OF SINGLE LANE CARRIAGEWAY AT NEW CONSTRUCTION WITH BOTH SIDE DRAIN

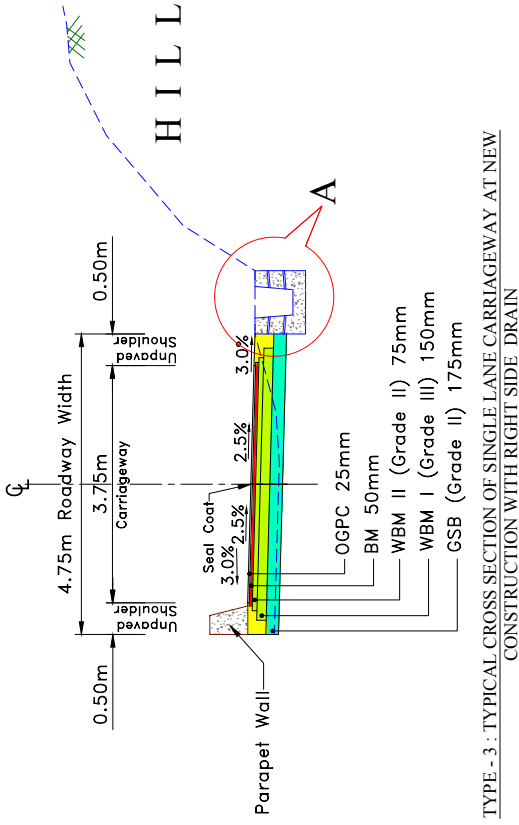


Detail - A
Typical Lined Drain

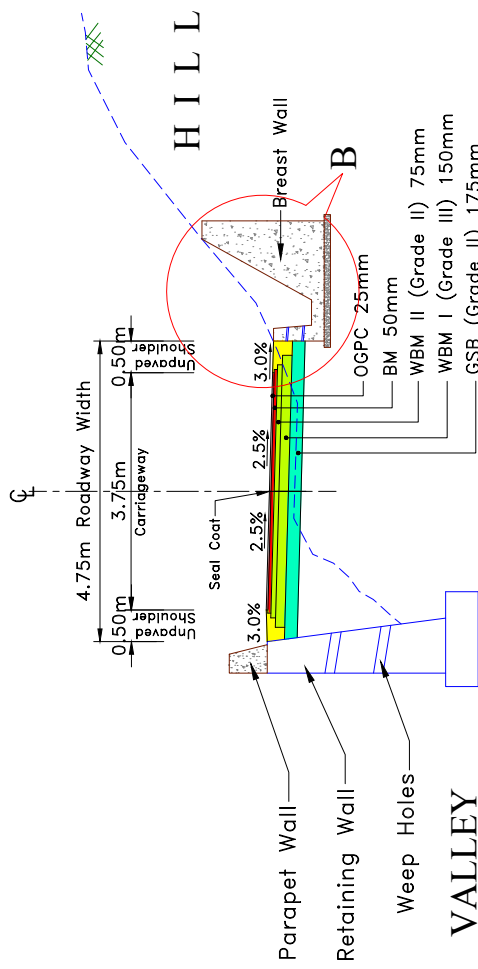
CLIENT :	 Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar - 190 008.		PROJECT :	Consultancy Services for Preparing Detailed Project Report for the Road Works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)		DESIGN CONSULTANT :	 Eptisa Servicios 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 DESIGNED BY : SK/MM APPROVED BY : KG SCALE : 1:80	TITLE : TYPICAL CROSS SECTION		REV : DATE : DESCRIPTION :	DRG. NO. : EPTISA/JTRP/DP/R/J&K/TCS/01 REVISION : R-1 September 2019			

Note:

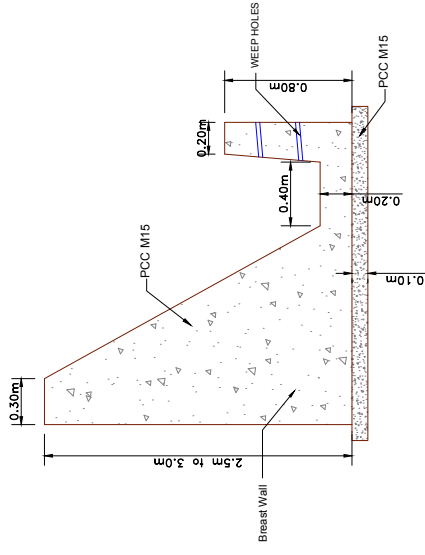
1. PCC upto 75mm thick shall be done by BM.
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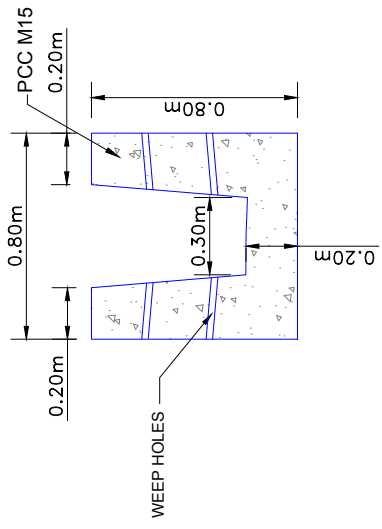
TYPE - 3 : TYPICAL CROSS SECTION OF SINGLE LANE CARRIAGEWAY AT NEW CONSTRUCTION WITH RIGHT SIDE DRAIN





TYPE - 4 : TYPICAL CROSS SECTION OF SINGLE LANE CARRIAGEWAY AT NEW CONSTRUCTION WITH RIGHT SIDE DRAIN & BREAST WALL & LEFT SIDE RETAINING WALL



Detail -A
Typical Drain with Breast Wall

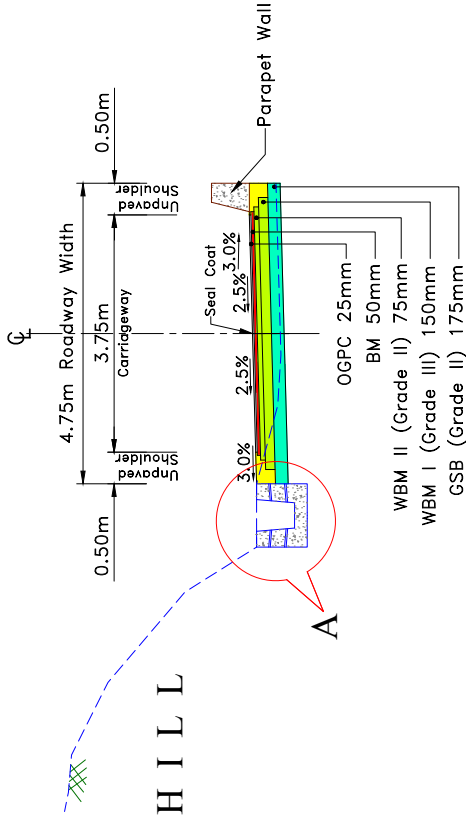


Detail -B
Typical Lined Drain

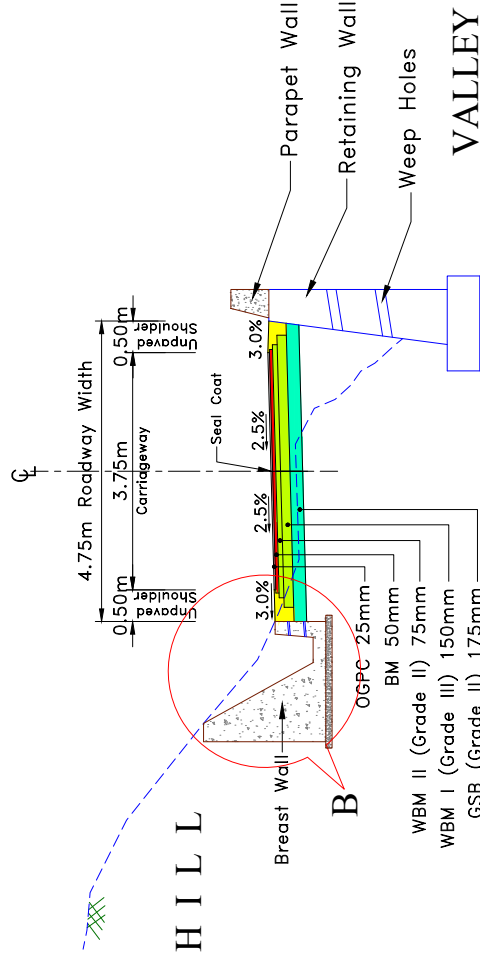
CLIENT :	 Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar - 190 008.		PROJECT :	Consultancy Services for Preparing Detailed Project Report for the Road Works in Jammu and Kashmir (Malaini to Chakrabhatti Road in Doda District)		DESIGN CONSULTANT :	 Eptisa Servicios de Ingenieria S.L. Unit-1203, 12th Floor, Tower 1, PS Striplin 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 :	TYPICAL CROSS SECTION			
DESIGNED BY :	SK/MM	DRG. NO. :	EPTISA/JTRF/DP/R/J&K/TCS/02					
APPROVED BY :	KG	REVISION :	R-1					
SCALE :	1:100	DATE :	September 2019					

Note:

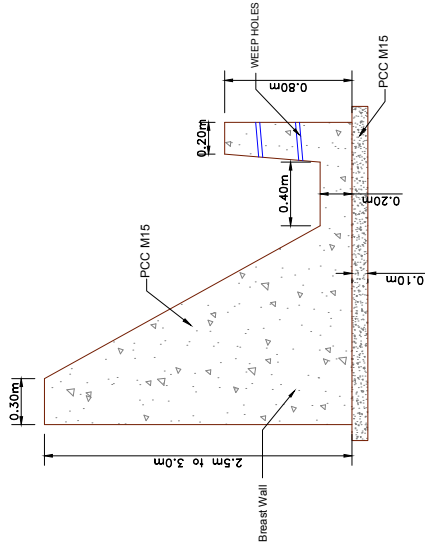
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3. PCC of thickness more than 225mm shall be done GSB after dismantling Existing Bituminous Surface.
4. PCC shall decided based on difference in level of FRL and existing level and/or level after dismantling and recompaction of Existing Bituminous Surface.



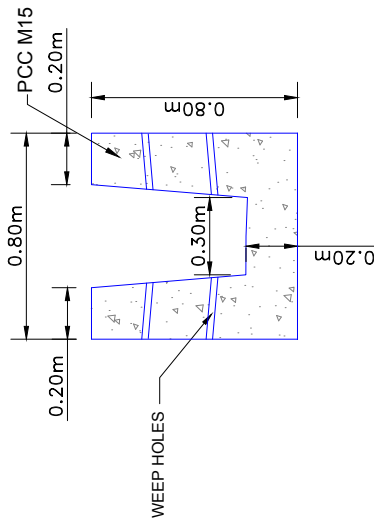
TYPE - 5 : TYPICAL CROSS SECTION OF SINGLE LANE CARRIAGEWAY AT NEW CONSTRUCTION WITH LEFT SIDE DRAIN





TYPE - 6 : TYPICAL CROSS SECTION OF SINGLE LANE CARRIAGEWAY AT NEW CONSTRUCTION WITH LEFT SIDE DRAIN & BREAST WALL & RIGHT SIDE RETAINING WALL



Detail -B
Typical Drain with Breast Wall



Detail -A
Typical Lined Drain


CLIENT :	 Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar - 190 008.		PROJECT :	Consultancy Services for Preparing Detailed Project Report for the Road Works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)		DESIGN CONSULTANT :	 Eptisa Servicios de Ingeniería S.L. Unit 1203, 12th Floor, Tower 1, PS Striplan 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 :	TYPICAL CROSS SECTION				
DESIGNED BY :	SK/MM	APPROVED BY :	KG	DRG. NO. :	EPTISA/JTRF/DP/UR/KTCS/03	REVISION :	R-1	DATE :	September 2019
APPROVED BY :	KG	SCALE :	1:100	DESCRIPTION :					

SI No.	Chaiange		Length (m)	Type
	From	To		
1	0+000	0+022	0+022	1
2	0+022	1+028	1+006	3
3	1+028	1+100	0+072	5
4	1+100	1170	0+070	6
5	1+170	1+820	0+650	5
6	1+820	1+890	0+070	6
7	1+890	2+127	0+237	5
8	2+127	2+250	0+123	2
10	2+250	2+450	0+200	5
11	2+450	2+481	0+031	6
12	2+481	2+550	0+069	2
13	2+550	3+030	0+480	3
14	3+030	3+070	0+040	4
15	3+070	3+090	0+020	3
16	3+090	3+130	0+040	4
17	3+130	3+428	0+298	3
18	3+428	3+577	0+149	2
19	3+577	3+671	0+094	5
20	3+671	3+780	0+109	2
21	3+780	3+800	0+020	4
22	3+800	4+000	0+200	3
23	4+000	4+028	0+028	4
24	4+028	4+122	0+094	2
26	4+122	4+230	0+108	5
27	4+230	4+320	0+090	6
28	4+320	4+950	0+630	5
29	4+950	4+981	0+031	6
30	4+981	5+021	0+040	2

SI No.	Chaiange		Length (m)	Type
	From	To		
31	5+021	5+150	0+129	3
33	5+150	5+225	0+075	4
34	5+225	5+300	0+075	3
35	5+300	5+400	0+100	4
36	5+400	5+500	0+100	3
37	5+500	5+600	0+100	4
38	5+600	5+650	0+050	3
39	5+650	5+750	0+100	4
40	5+750	5+900	0+150	3
41	5+900	5+982	0+082	4
42	5+982	6+050	0+068	6
43	6+050	6+180	0+130	5
44	6+180	6+240	0+060	6
45	6+240	6+350	0+110	5
46	6+350	6+450	0+100	6
47	6+450	6+480	0+030	5
48	6+480	6+520	0+040	6
49	6+520	6+550	0+030	5
50	6+550	6+740	0+190	6
51	6+740	6+840	0+100	5
52	6+840	6+940	0+100	6
53	6+940	6+980	0+040	5
54	6+980	7+050	0+070	2
55	7+050	7+120	0+070	3
57	7+120	7+200	0+080	4
58	7+200	7+390	0+190	3
59	7+390	7+450	0+060	4
60	7+450	7+620	0+170	5

SI No.	Chaiange		Length (m)	Type
	From	To		
61	7+620	7+628	0+008	6
62	7+628	7+778	0+150	2
65	7+778	7+840	0+062	4
66	7+840	7+920	0+080	3
67	7+920	7+990	0+070	4
68	7+990	8+050	0+060	3
69	8+050	8+181	0+131	4
70	8+181	8+420	0+239	2
72	8+420	8+480	0+060	4
73	8+480	8+520	0+040	3
74	8+520	8+600	0+080	4
75	8+600	8+688	0+088	3
76	8+688	8+931	0+243	2
79	8+931	8+980	0+049	3
80	8+980	9+050	0+070	4
81	9+050	9+200	0+150	3
82	9+200	9+240	0+040	4
83	9+240	9+400	0+160	3
84	9+400	9+500	0+100	4
85	9+500	9+700	0+200	3
86	9+700	9+800	0+100	4
87	9+800	9+830	0+030	3
88	9+830	9+980	0+150	4
89	9+980	10+059	0+079	3
			10+059	

CLIENT :




Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 008.

PROJECT :

Consultancy Services for Preparing Detailed Project Report
for the Road Works in Jammu and Kashmir
(Malaini to Chakrabhatti Road in Doda District)

DESIGN CONSULTANT:



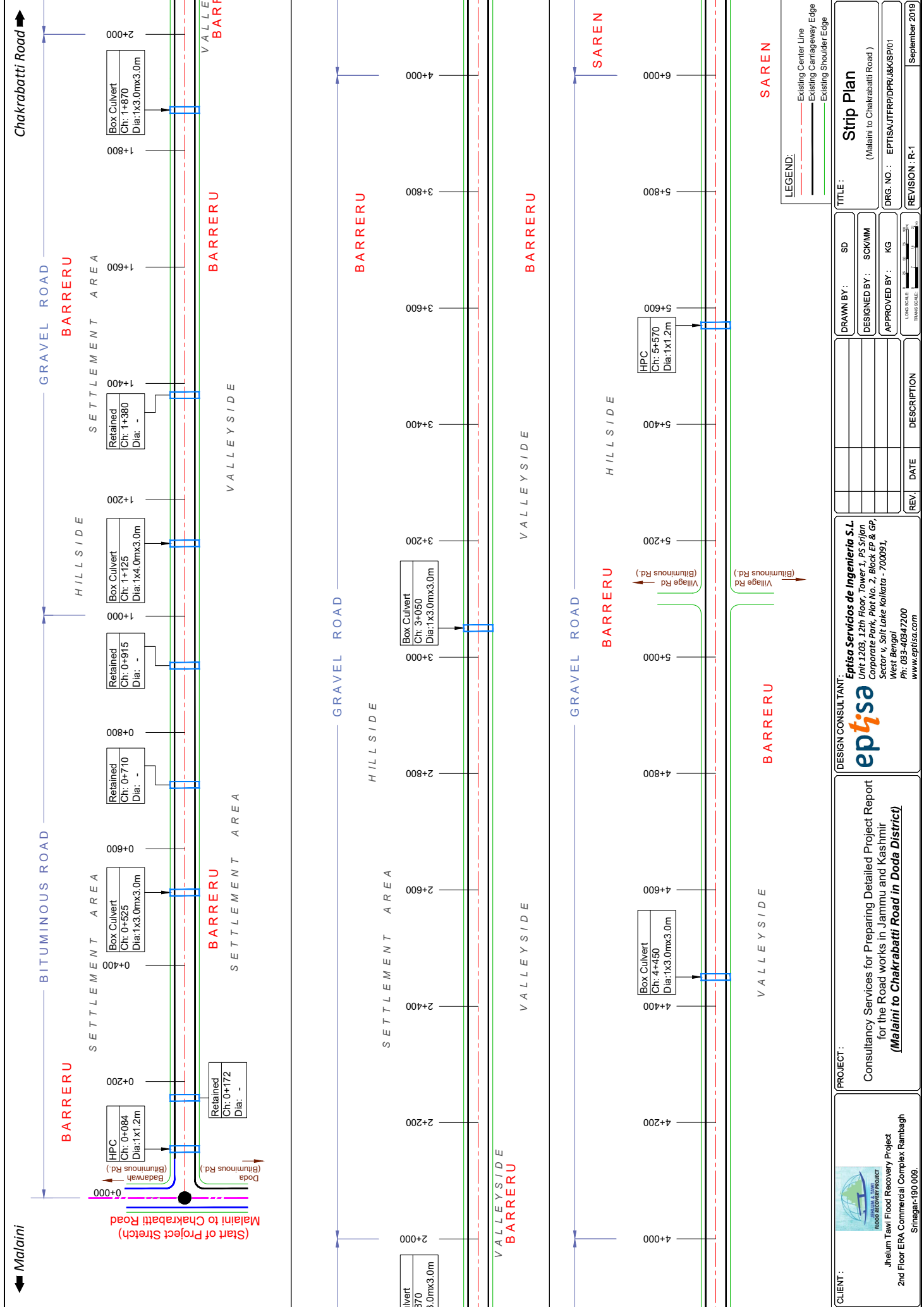
Eptisa *Servicios de Ingeniería S.L.*
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector v, Salt Lake Kolkata - 700091,
West Bengal
Ph: 03-40347200
www.eptisa.com

REV	DATE	DESCRIPTION

DRAWN BY : SD
DESIGNED BY : SK/MM
APPROVED BY : KG

TITLE : SCHEDULE OF CROSS SECTION
DRG. NO. : EPTISA/JTRP/DRP/U&K/TCS/03
REVISION : R-1
September 2019

≡ STRIP PLAN ≡



LEGEND:
 - - - Existing Center Line
 - - - Existing Carriageway Edge
 - - - Existing Shoulder Edge

TITLE: Strip Plan
 (Malaini to Chakrabatti Road)

DRAWN BY: SD
DESIGNED BY: SKMIM
APPROVED BY: KG

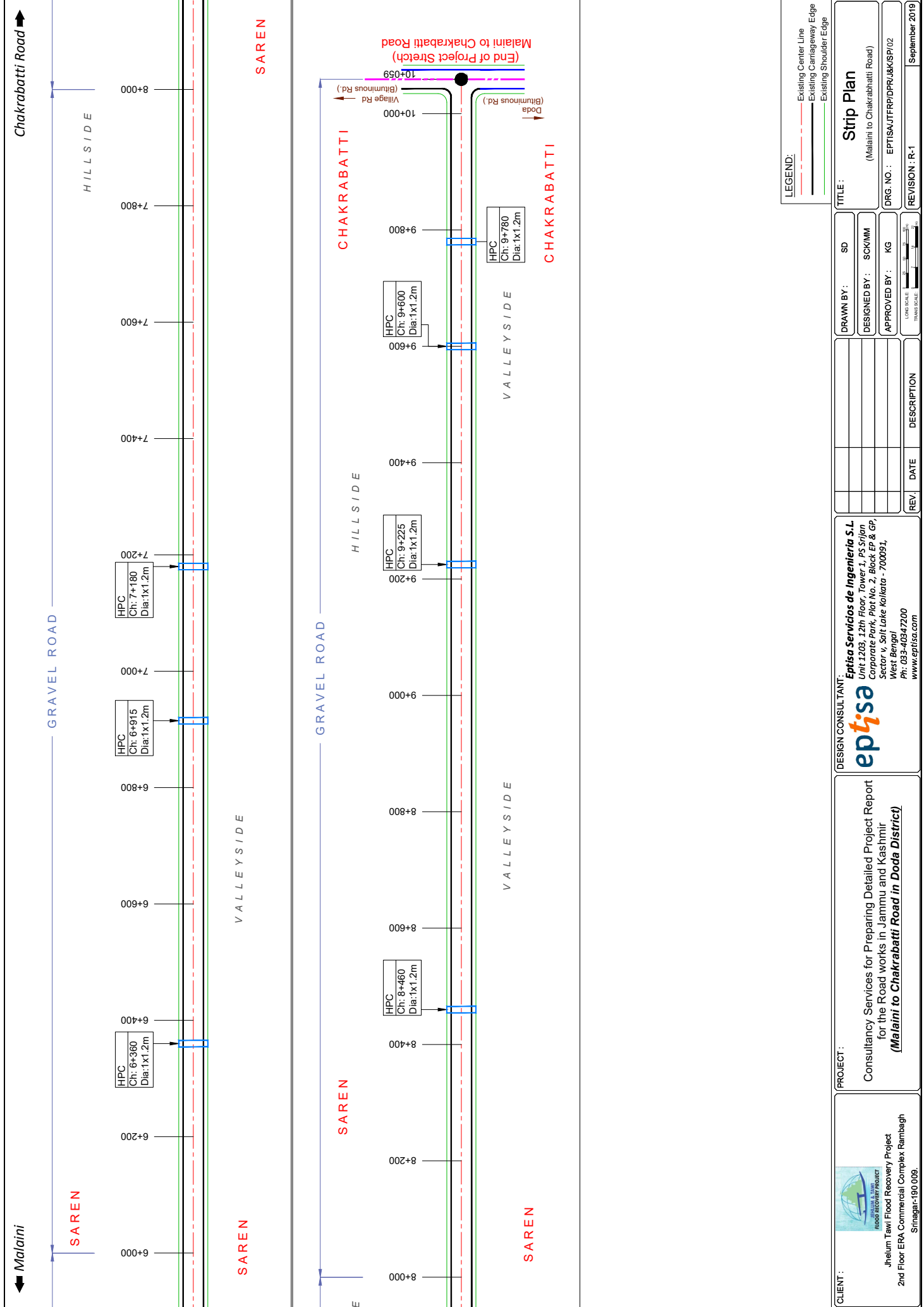
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REVISION: R-1
 DATE: _____
 DESCRIPTION: _____


DESIGN CONSULTANT:
epitisa
 Eptisa Servicios de Ingenieria S.L.
 Unit 1203, 12th floor, Tower 1, PS Strigon
 Corporate Park, Plot No. 2, Block EP & GP,
 Sector v, Salt Lake Kolkata - 700091,
 West Bengal
 Ph: 03-3-40347200
 www.epitisa.com

PROJECT:
 Consultancy Services for Preparing Detailed Project Report
 for the Road works in Jammu and Kashmir
 (Malaini to Chakrabatti Road in Doda District)

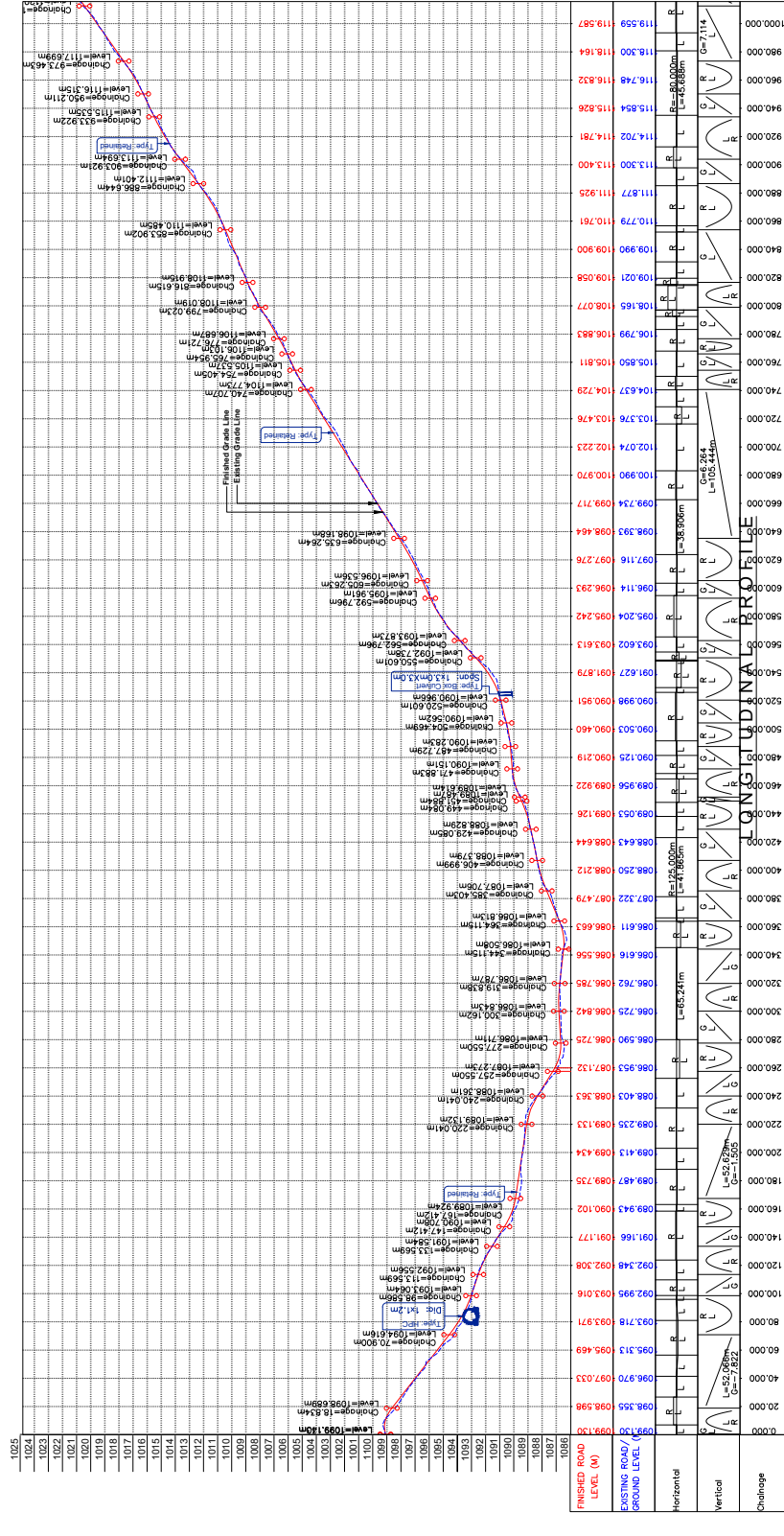
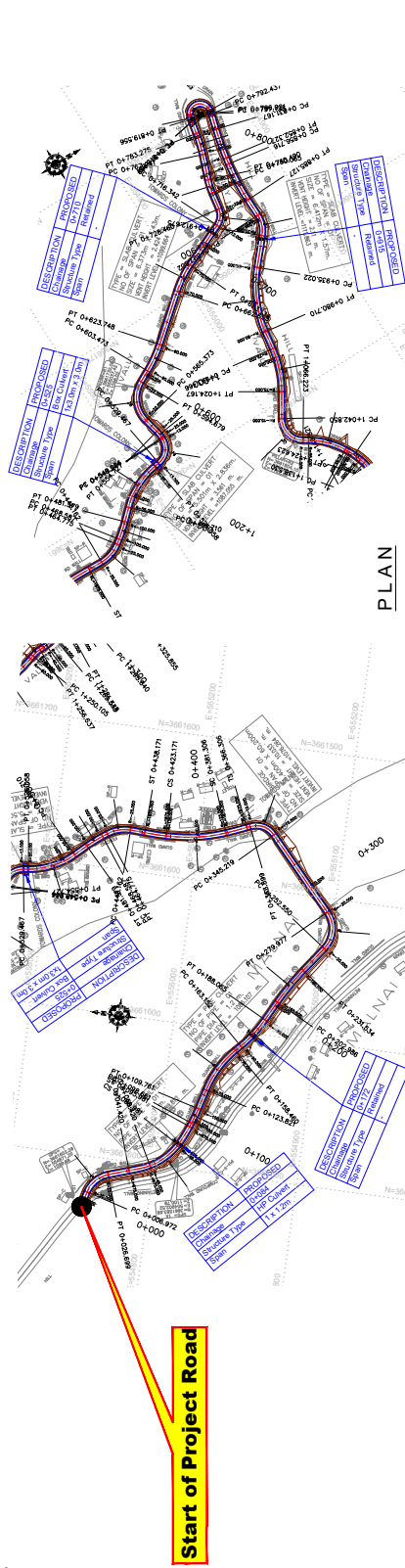
CLIENT:

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




CLIENT :  Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Simagar-190 009.	PROJECT : Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)		DESIGN CONSULTANT:  Eptisa Servicios de Ingenieria S.L. Unit: 1203, 12th floor, Tower 1, PS Striplon Corporate Park, Plot No. 2, Block EP & GP, Sector v, Salt Lake Kolkata - 700091, West Bengal Ph: 033-40347200 www.eptisa.com	
	REVISION : R-1 September 2019	REVISION : R-1 September 2019	REVISION : R-1 September 2019	REVISION : R-1 September 2019
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DATE : DESCRIPTION :	DATE : DESCRIPTION :	DATE : DESCRIPTION :	DATE : DESCRIPTION :	
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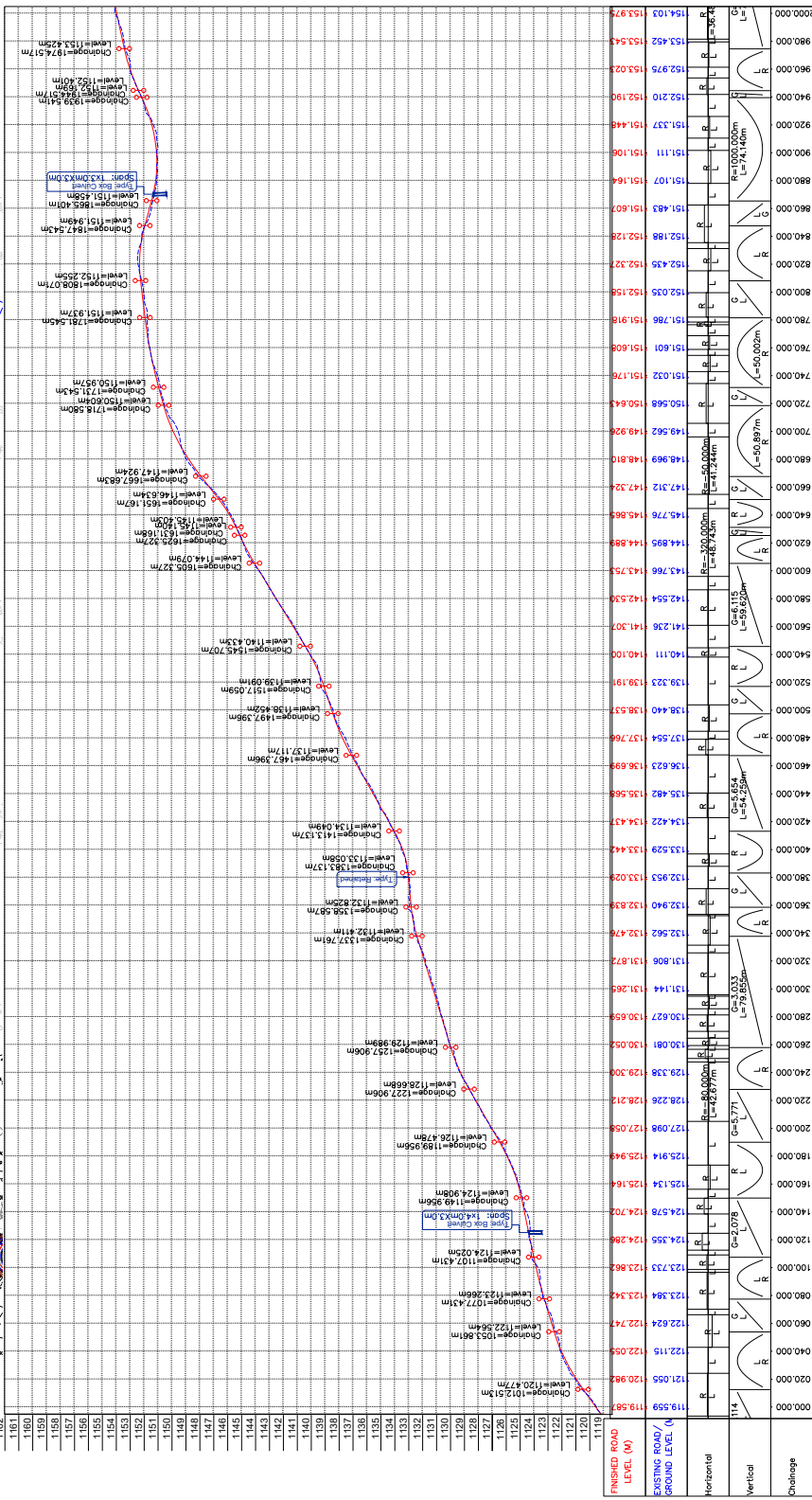
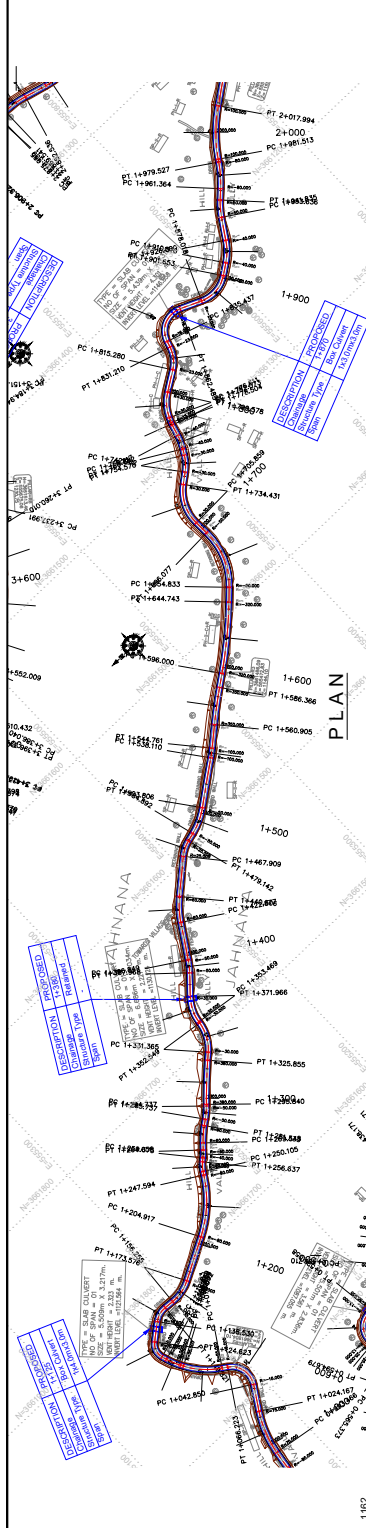
☰ PLAN PROFILE ☰



Note:

1. Horizontal Curve Details as referred in dwg no EPTISAJTFRP/DPR/J&K/HAR01 to 07

 <p>ep_{tisa} Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	DESIGN CONSULTANT: Servicios de Ingeniería S.L. Unit 1205, 12th Floor, Tower 1, PS Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector v, Salt Lake Kolkata - 700091, West Bengal Ph: 03-40347200 www.eptisa.com	TITLE: Plan and Profile (Ch. 0+000 Km to Ch. 1+000 Km)
	PROJECT: Malaini to Chakrabatti Road in Doda District	DRAWN BY: SD DESIGNED BY: SCK/MM APPROVED BY: KG SCALE: HOR 1:2500 VER 1:250



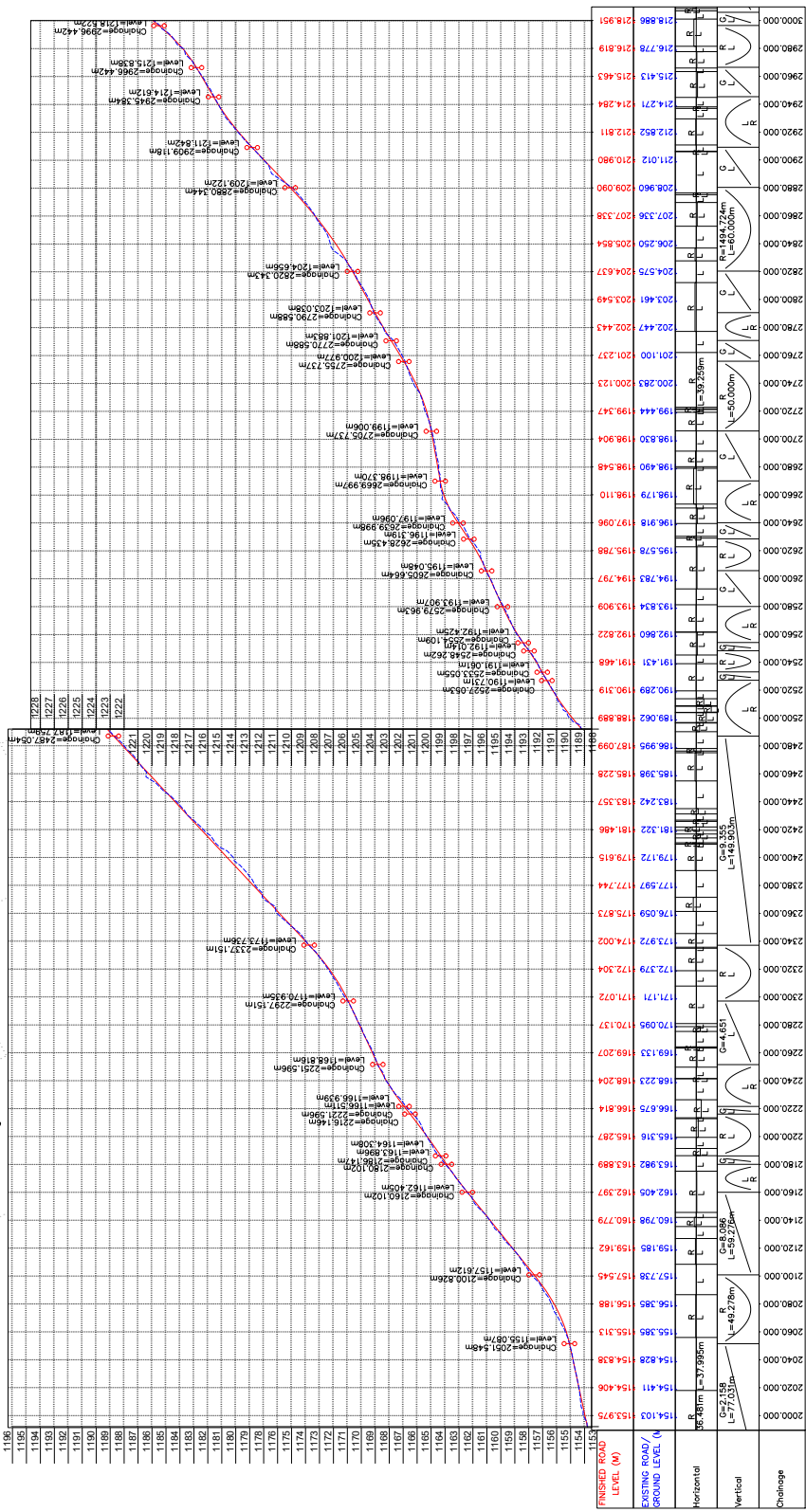
Note:
1. Horizontal Curve Details as referred in dwg no EPTISAJTFRP/DPR/J&K/HAR01 to 07

LONGITUDINAL PROFILE

 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 (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT:  eptisa Servicios de Ingeniería 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: 03-8-4034720 www.eptisa.com	TITLE : Plan and Profile (Ch. 1+000 Km to Ch. 2+000 Km)
	CLIENT : Malaini	DRAWN BY : SD	DESIGNED BY : SCK/MM
REVISION : R-1	REV : DATE	APPROVED BY : KG	SCALE : HOR 1:2500 VER 1:250



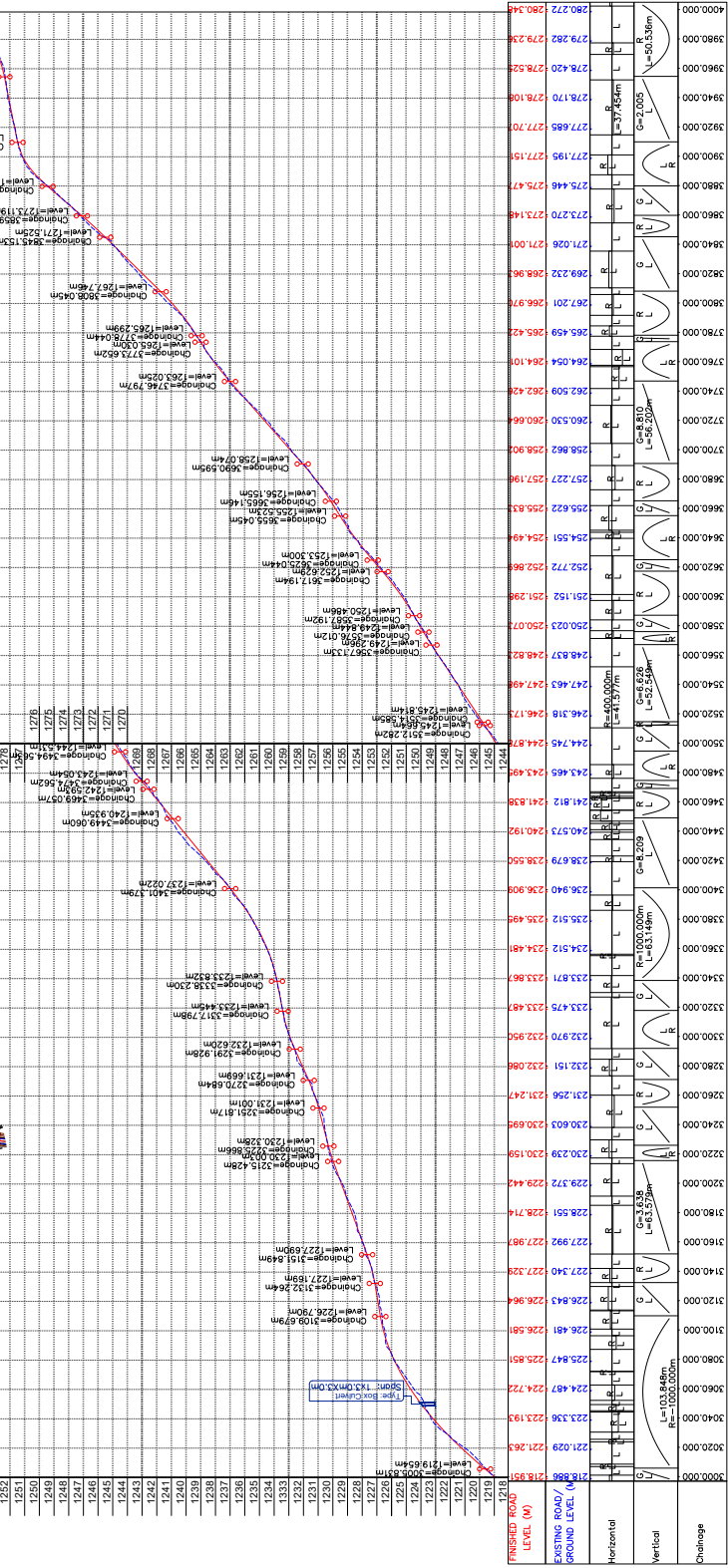
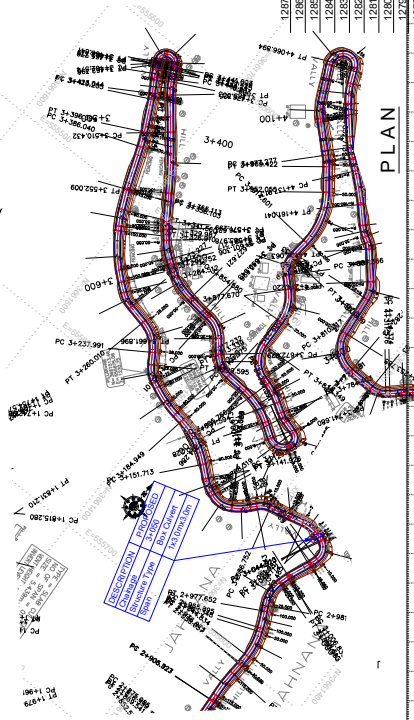
PLAN



LONGITUDINAL PROFILE

Note:
1. Horizontal Curve Details as referred in dwg no EPTISAJTFRP/DPR/J&K/HAR01 to 07

 <p>eptisa Servicios de Ingeniería S.L. Unit 1.203, 12th Floor, Tower 1, P5 Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector V, Salt Lake Kolkata - 700091, West Bengal Ph: 03-40347200 www.eptisa.com</p>	<p>PROJECT :</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT :</p> <p>eptisa Servicios de Ingeniería S.L. Unit 1.203, 12th Floor, Tower 1, P5 Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector V, Salt Lake Kolkata - 700091, West Bengal Ph: 03-40347200 www.eptisa.com</p>	<p>TITLE :</p> <p>Plan and Profile (Ch. 2+000 Km to Ch. 3+000 Km)</p>
	<p>CLIENT :</p> <p>Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>DRAWN BY :</p> <p>SD</p>	<p>DESIGNED BY :</p> <p>SCK/MM</p>
<p>REVISION :</p> <p>R-1</p>	<p>REV :</p> <p>DATE</p>	<p>DESCRIPTION</p>	<p>SCALE :</p> <p>HOR 1:2500 VER 1:250</p>



LONGITUDINAL PROFILE

Note:
1. Horizontal Curve Details as referred in dwg no EPTISAJTFRP/DPR/J&K/HAR01 to 07

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
(Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:
epitisa Servicios de Ingeniería S.L.
Unit 1.203, 12th Floor, Tower 1, P.S. Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector V, Salt Lake Kolkata - 700091,
West Bengal
Ph: 03-43047200
www.epitisa.com

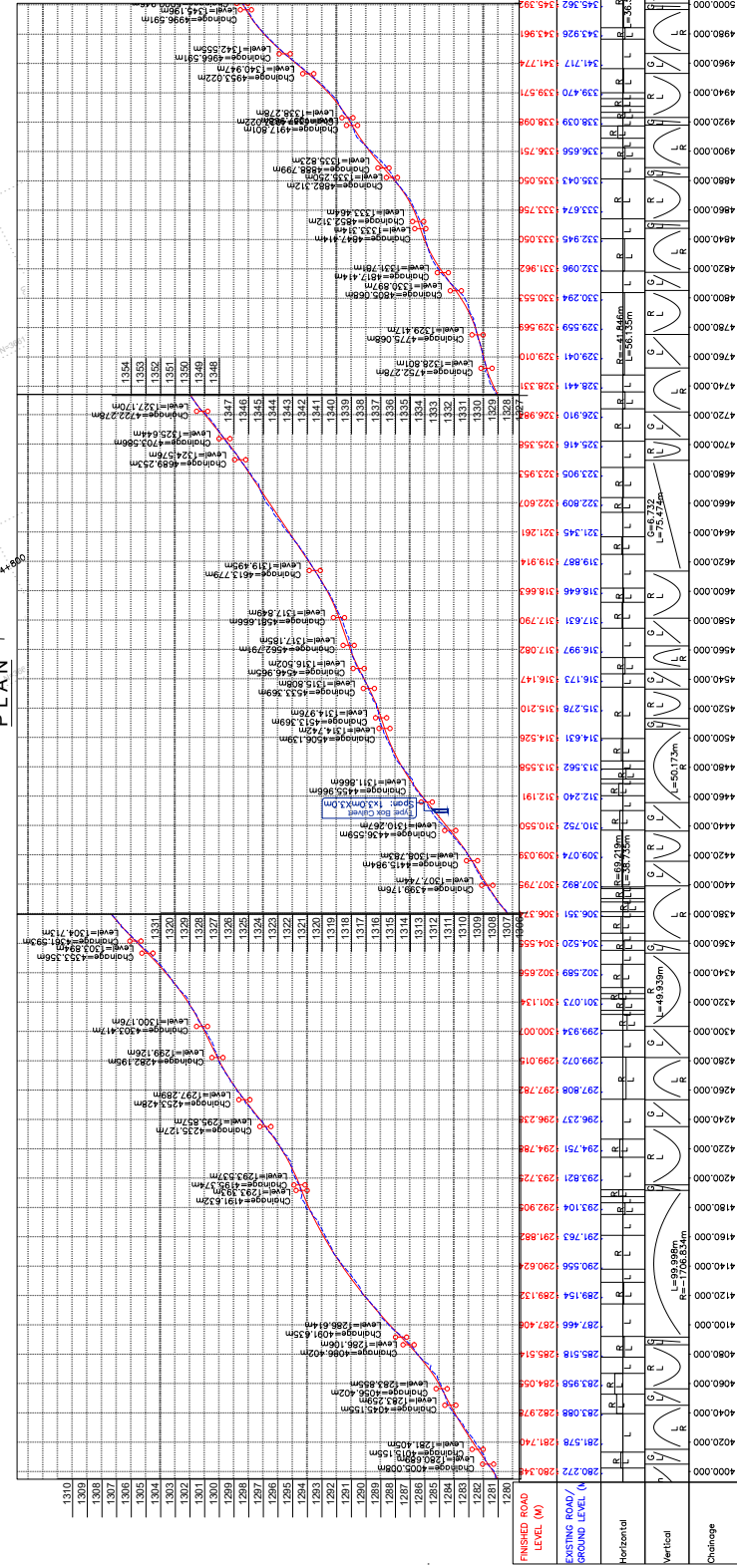
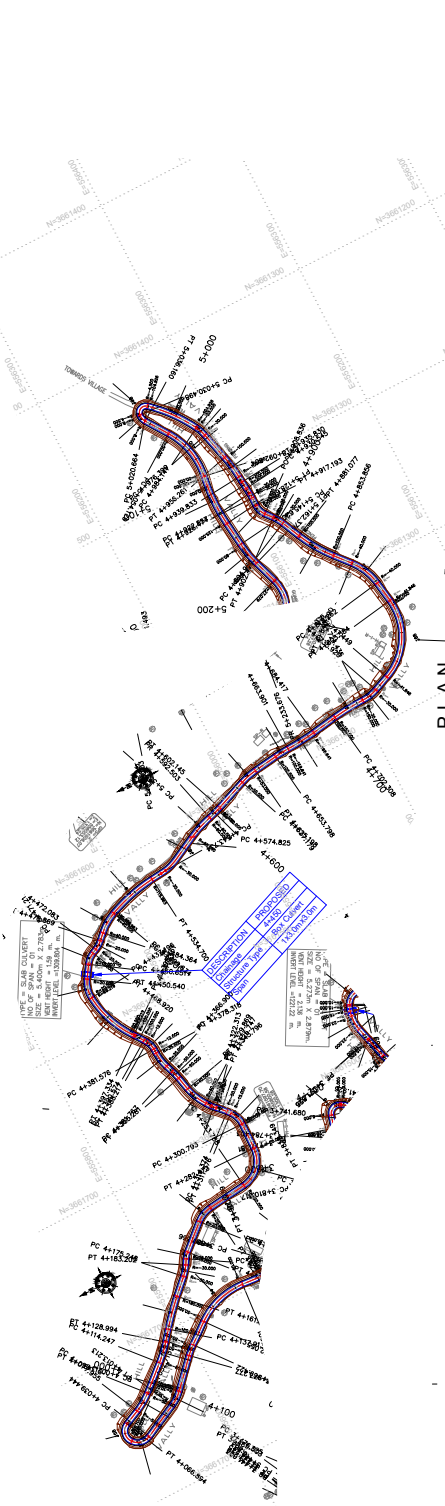
TITLE: Plan and Profile
(Ch.3+000 Km to Ch. 4+000 Km)

DRAWN BY: SD
DESIGNED BY: SCK/MM
APPROVED BY: KG

SCALE: HOR 1:2500
VER 1:250

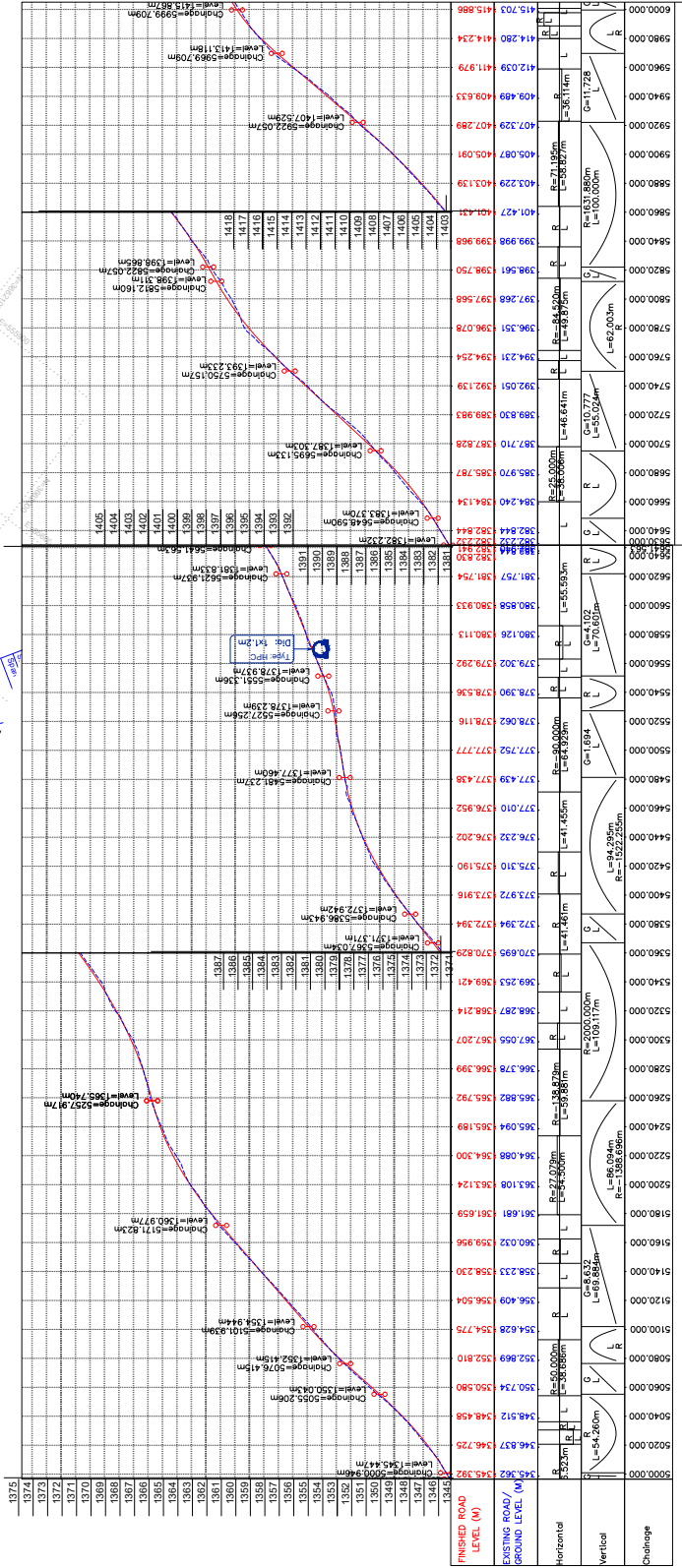
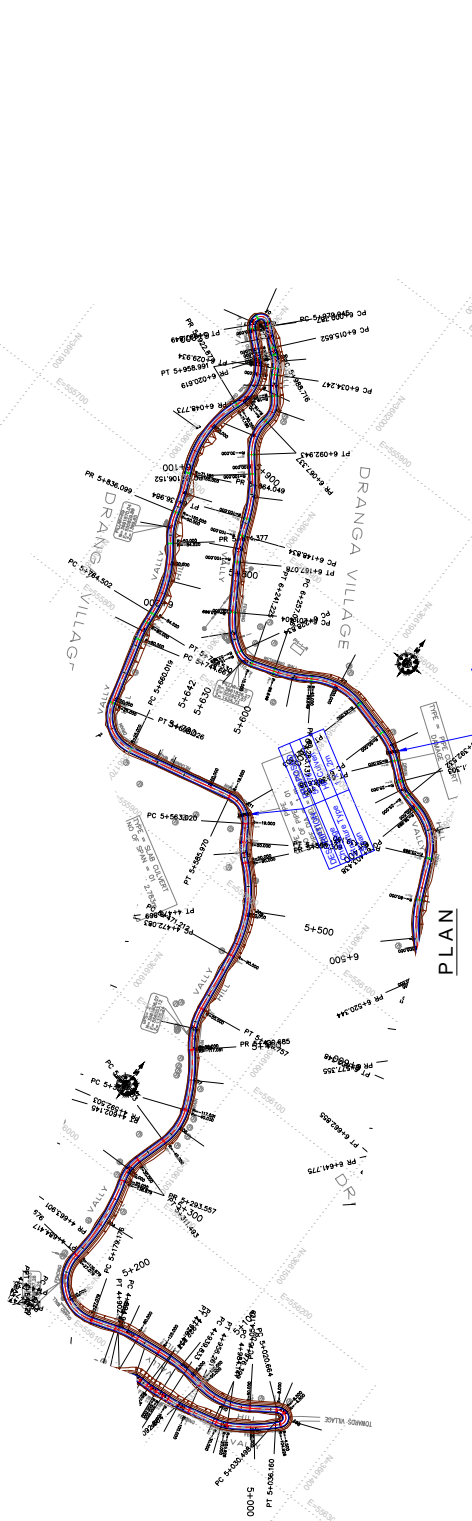
REVISION: R-1

DATE: September 2019



Note:
1. Horizontal Curve Details as referred in dwg no EPTISAJTFRP/DPR/J&K/HAR01 to 07

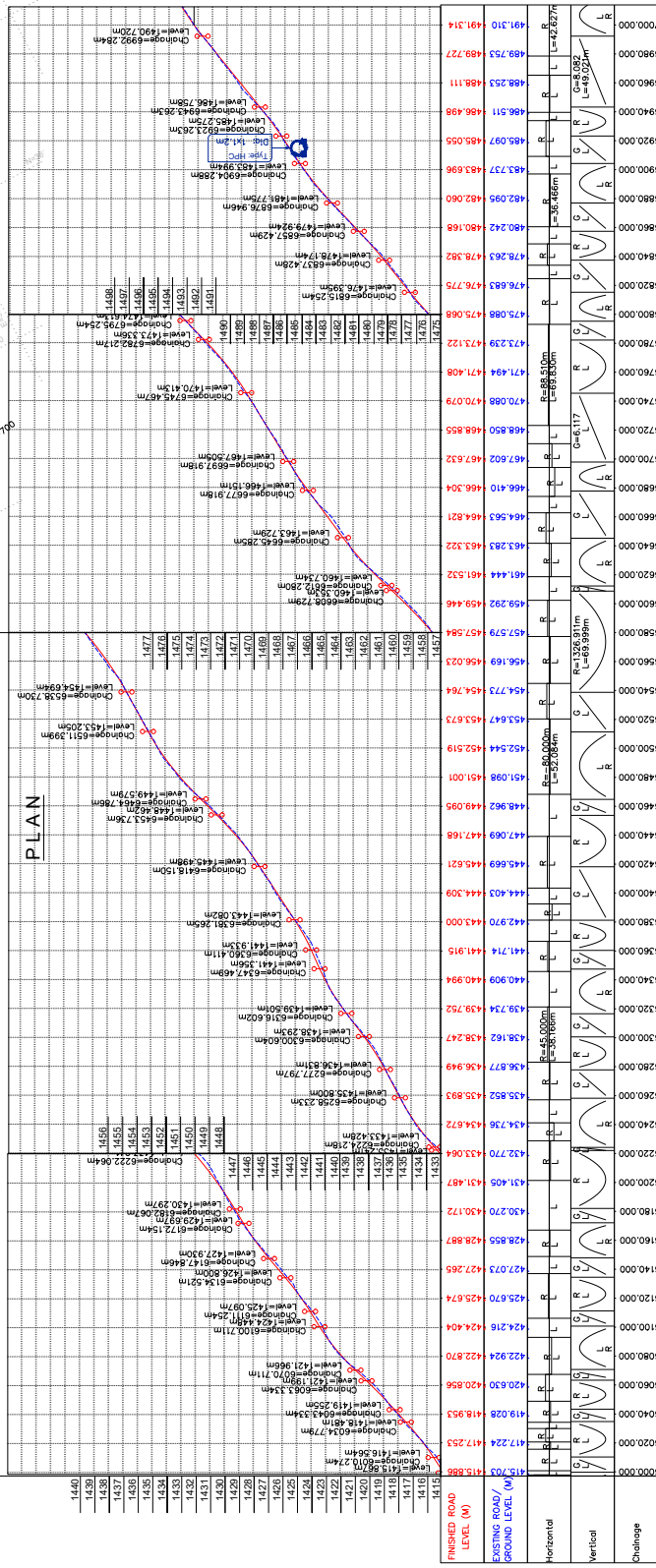
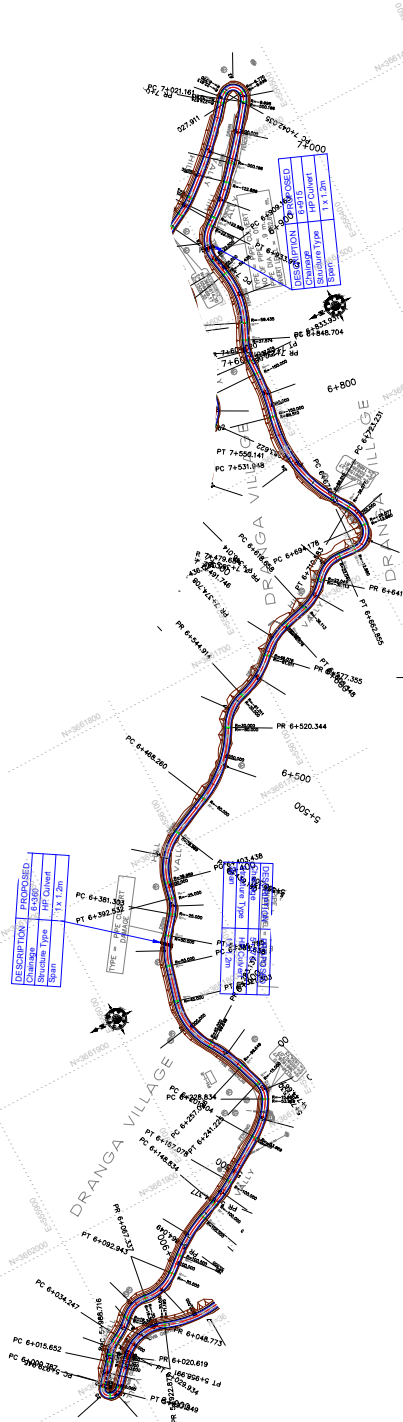
CLIENT:	Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.	
	PROJECT:	
CONSULTANT:	epitisa	
	Servicios de Ingeniería S.L. Unit 1.205, 12th Floor, Tower 1, PS Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector v, Salt Lake Kolkata - 700091, West Bengal Ph: 03-40347200 www.epitisa.com	
DESIGN CONSULTANT:	epitisa	
	Servicios de Ingeniería S.L. Unit 1.205, 12th Floor, Tower 1, PS Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector v, Salt Lake Kolkata - 700091, West Bengal Ph: 03-40347200 www.epitisa.com	
TITLE:	Plan and Profile (Ch.4+000 Km to Ch. 5+000 Km)	
	DRG. NO. : EPTISAJTFRP/DPR/J&K/P105	
DRAWN BY:	SD	
	DESIGNED BY: SCK/MM	
APPROVED BY:	KG	
	SCALE: HOR 1:2500 VER 1:250	
REVISION:	R-1	
	SEPTEMBER 2019	



LONGITUDINAL PROFILE

Note:
1. Horizontal Curve Details as referred in dwg no EPTISAJTFRP/DPR/J&K/HAR01 to 07

<p>Malaini Road Recovery Project Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	<p>PROJECT :</p> <p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>	<p>DESIGN CONSULTANT :</p> <p>eptisa <i>Servicios de Ingeniería S.L.</i> Unit 1.203, 12th Floor, Tower 1, PS Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector V, Salt Lake Kolkata - 700091, West Bengal Ph: 03-40347200 www.eptisa.com</p>	<p>TITLE :</p> <p>Plan and Profile (Ch.5+000 Km to Ch. 6+000 Km)</p>
			<p>DRAWN BY :</p> <p>SD</p>
<p>CLIENT :</p>	<p>REVISION :</p> <p>R-1</p>	<p>SCALE :</p> <p>HOR 1:2500 VER 1:250</p>	<p>REV :</p> <p>DATE</p>



LONGITUDINAL PROFILE

Note:
1. Horizontal Curve Details as referred in dwg no EPTISAJTFRP/DPR/J&K/HAR01 to 07

TITLE : Plan and Profile
(Ch.6+000 Km to Ch. 7+000 Km)

DRAWN BY : SD
DESIGNED BY : SCK/MM
APPROVED BY : KG

DESIGN CONSULTANT:
epitisa
Servicios de Ingeniería S.L.
Unit 1,205, 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.epitisa.com

PROJECT :
Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
(Malaini to Chakrabatti Road in Doda District)

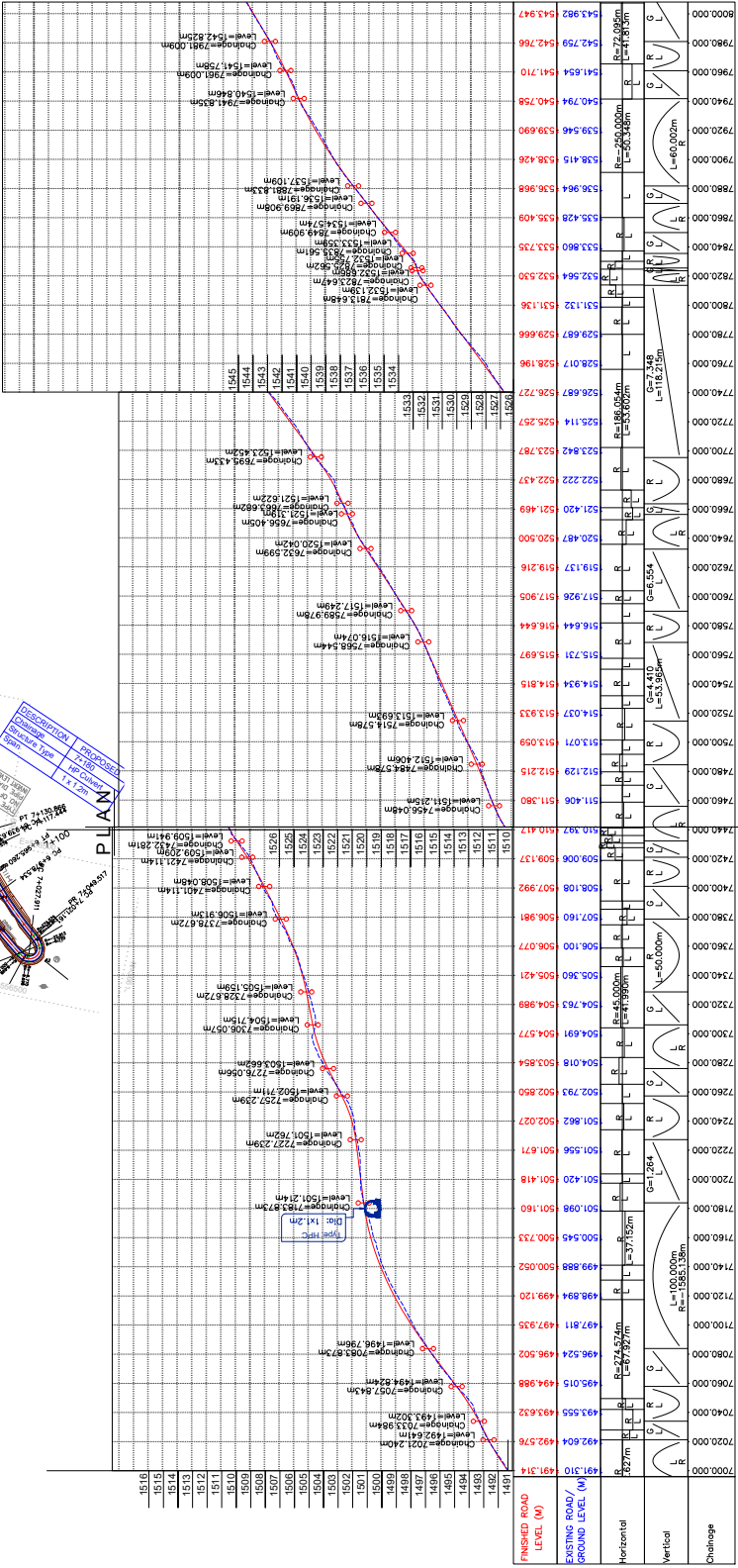
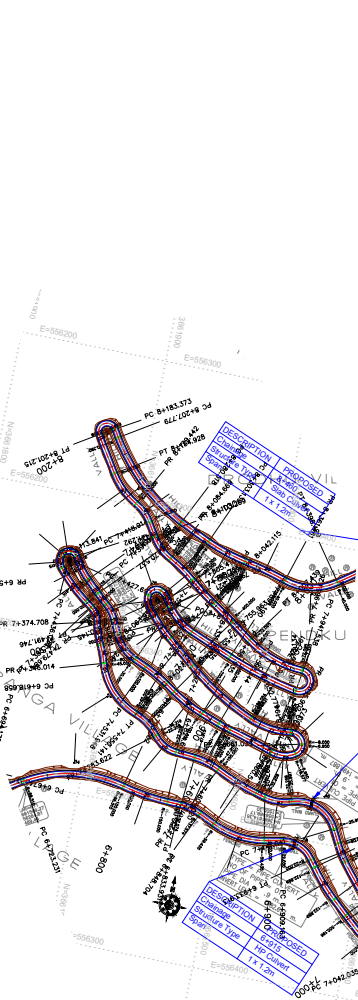
CLIENT :
Jhelum Tawi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

SCALE : HOR 1:2500
VER 1:250

REVISION : R-1

REV : DATE DESCRIPTION

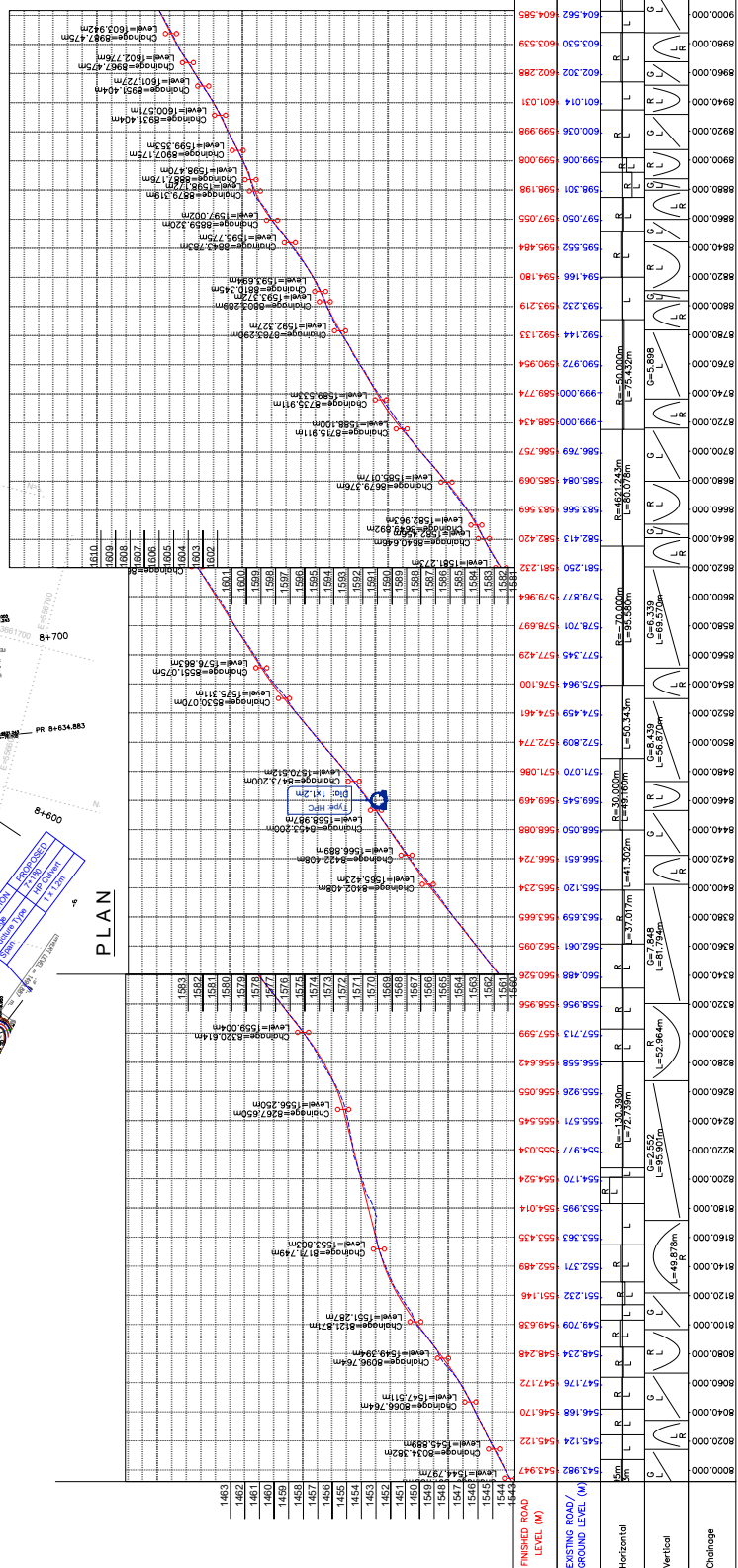
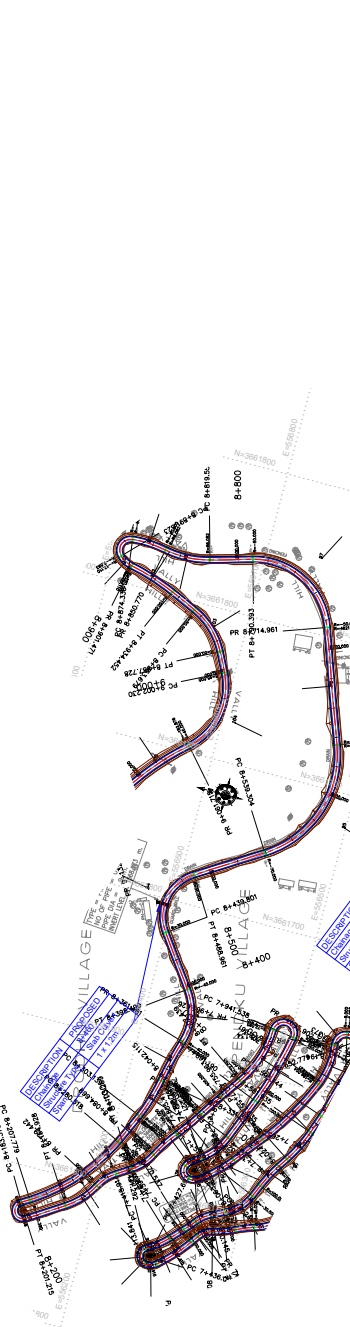
SEPTEMBER 2019



LONGITUDINAL PROFILE

Note:
1. Horizontal Curve Details as referred in dwg no EPTISAJTFRP/DPR/J&K/HAR01 to 07

 Malaini Flood Recovery Project Jhelum Talavi 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 (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT:  eptisa Servicios de Ingeniería S.L. Unit 1.203, 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	TITLE : Plan and Profile (Ch.7+000 Km to Ch. 8+000 Km)
	CLIENT : Jhelum Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.	DRAWN BY : SD	DESIGNED BY : SCK/MM
REVISION : R-1	REV : DATE : DESCRIPTION :	SCALE : HOR 1:2500 VER 1:250	DRG. NO. : EPTISAJTFRP/DPR/J&K/PP108 REVISION : R-1 September 2019



LONGITUDINAL PROFILE

Note:
 1. Horizontal Curve Details as referred in dwg no EPTISAJTFRP/DPR/J&K/HAR/01 to 07

CLIENT:
 Jhelum Talavi 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
 (Malaini to Chakrabatti Road in Doda District)

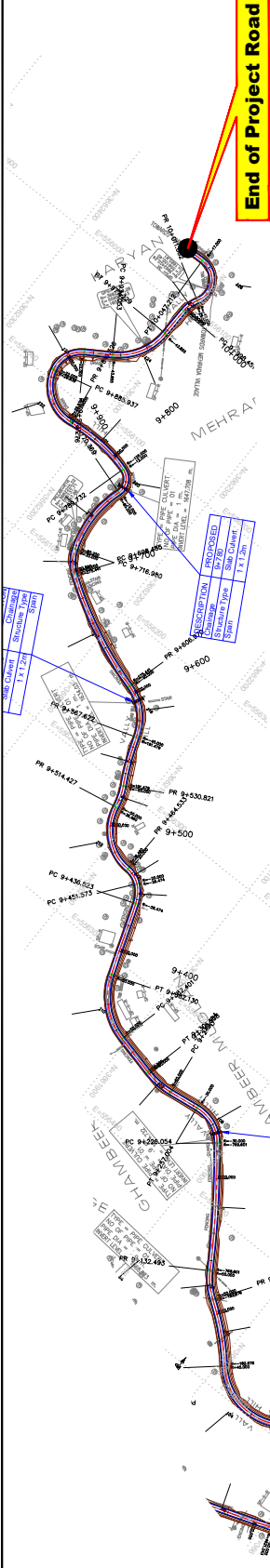
DESIGN CONSULTANT:
epitisa *Services de Ingenieria S.L.*
 Unit 1.203, 12th Floor, Tower 1, P5 Srijan
 Corporate Park, Plot No. 2, Block EP & GP,
 Sector V, Salt Lake Kolkata - 700091,
 West Bengal
 Ph: 03-8-4034720
 www.epitisa.com

TITLE: **Plan and Profile**
 (Ch.8+000 Km to Ch. 9+000 Km)

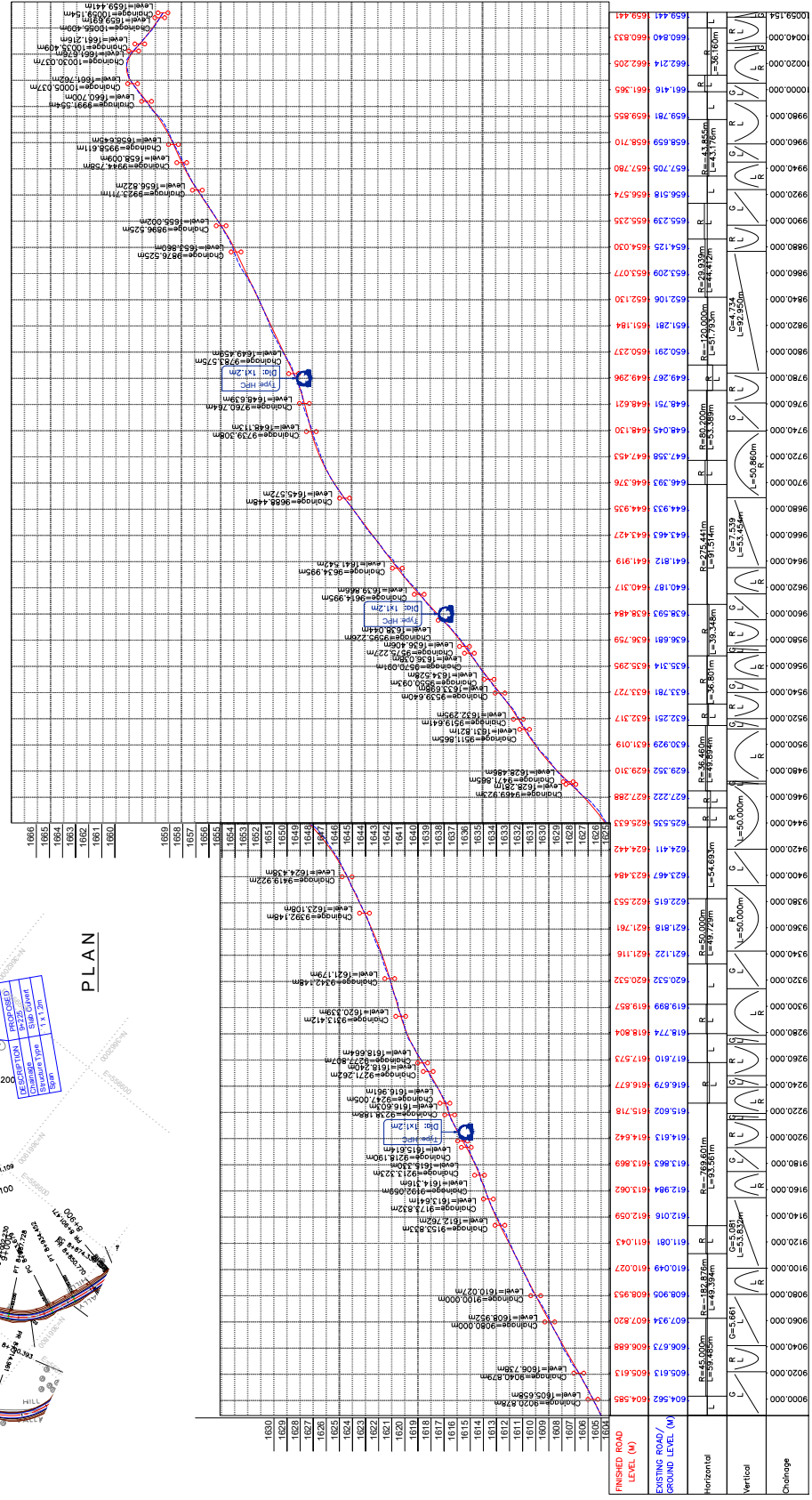
DRWN BY: SD
 DESIGNED BY: SCK/MM
 APPROVED BY: KG

SCALE: HOR 1:2500
 VER 1:250

DRG. NO.: EPTISAJTFRP/DPR/J&K/P/09
 REVISION: R-1
 September, 2019



End of Project Road



LONGITUDINAL PROFILE

Note:
1. Horizontal Curve Details as referred in dwg no EPTISAJTFRP/DPR/J&K/HAR01 to 07

 <p>Serviceis de Ingerieria S.L. Unit 1.205, 12th Floor, Tower 1, PS Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector v, Salt Lake Kolkata - 700091, West Bengal Ph: 03-40347200 www.eptisa.com</p>	TITLE : Plan and Profile (Ch.9+000 Km to Ch. 10+059 Km)
	DRAWN BY : SD DESIGNED BY : SCK/MM APPROVED BY : KG SCALE : HOR 1:2500 VER 1:250
PROJECT : Malaini to Chakrabatti Road in Doda District Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	REV : DATE : DESCRIPTION : HOR 1:2500 VER 1:250
CLIENT : Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.	DRG. NO. : EPTISAJTFRP/DPR/J&K/PP10 REVISION : R-1 September, 2019

HORIZONTAL ALIGNMENT REPORT

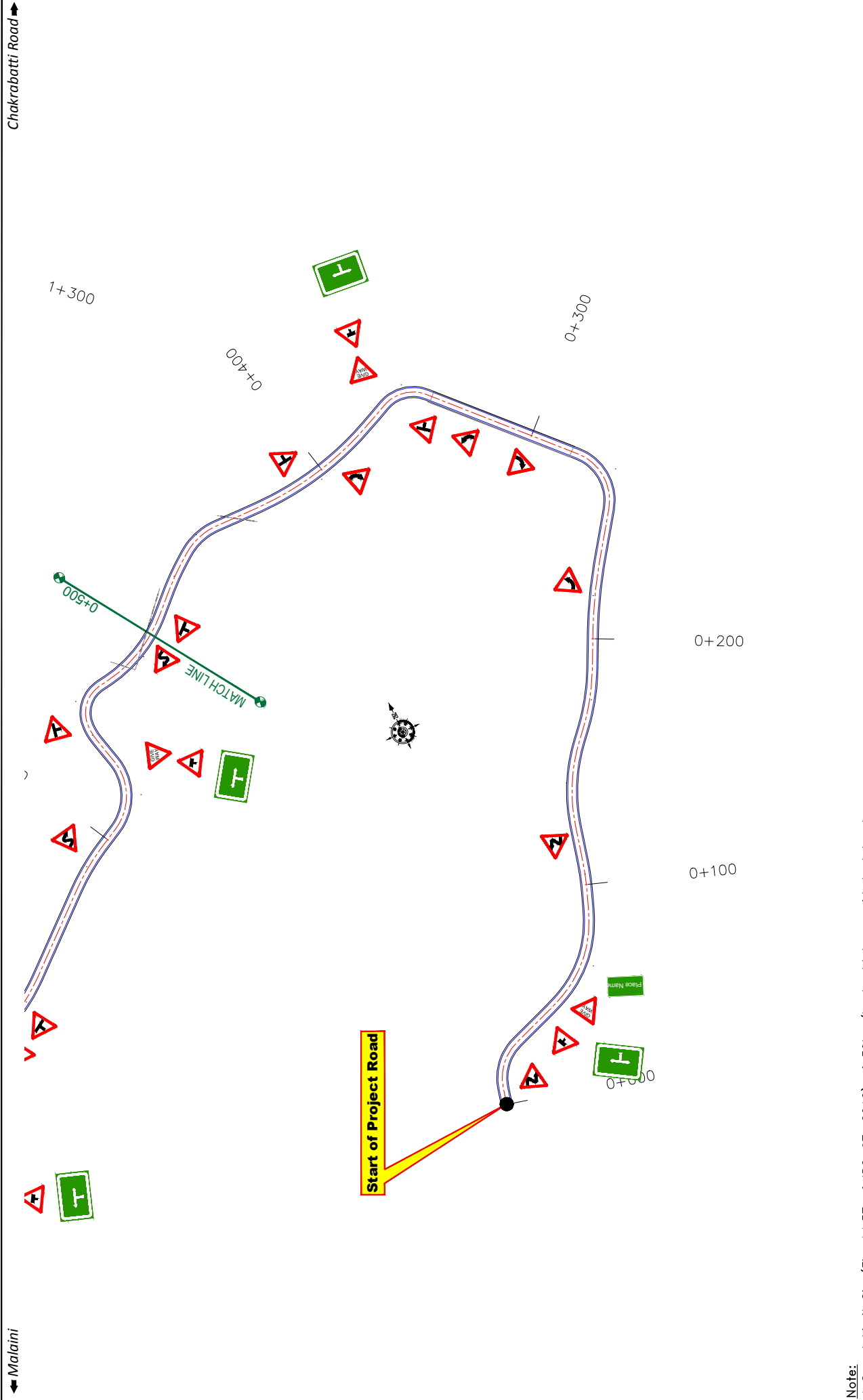
≡ VERTICAL ALIGNMENT REPORT ≡

Vertical Alignment Report

PVI No.	Start		PVI Details		End		Gradient (%)		Type of Curve	Curve Length (m)	K-Value
	Chainage (Km)	Level (m)	Chainage (Km)	Level (m)	Chainage (Km)	Level (m)	IN	OUT			
151	9+080.000	1608.952	9+090.000	1609.519	9+100.000	1610.027	5.661	5.081	Hog	20	34.50
152	9+153.833	1612.762	9+163.832	1613.270	9+173.832	1613.641	5.081	3.706	Hog	20	14.55
153	9+192.059	1614.316	9+202.691	1614.710	9+213.323	1615.330	3.706	5.833	Sag	21	10.00
154	9+218.190	1615.614	9+228.189	1616.198	9+238.188	1616.603	5.833	4.058	Hog	20	11.27
155	9+247.005	1616.961	9+259.133	1617.453	9+271.262	1618.240	4.058	6.484	Sag	24	10.00
156	9+277.807	1618.664	9+295.610	1619.819	9+313.412	1620.339	6.484	2.924	Hog	36	10.00
157	9+342.148	1621.179	9+367.148	1621.910	9+392.148	1623.108	2.924	4.791	Sag	50	26.78
158	9+419.922	1624.438	9+444.923	1625.636	9+469.923	1628.281	4.791	10.579	Sag	50	8.64
159	9+471.865	1628.486	9+491.865	1630.602	9+511.865	1631.821	10.579	6.097	Hog	40	8.92
160	9+519.641	1632.295	9+529.641	1632.905	9+539.640	1633.698	6.097	7.934	Sag	20	10.89
161	9+550.093	1634.528	9+560.092	1635.321	9+570.091	1636.038	7.934	7.167	Hog	20	26.07
162	9+575.227	1636.406	9+585.227	1637.122	9+595.226	1638.044	7.167	9.218	Sag	20	9.75
163	9+614.995	1639.866	9+624.995	1640.788	9+634.995	1641.542	9.218	7.539	Hog	20	11.92
164	9+688.448	1645.572	9+713.878	1647.489	9+739.308	1648.113	7.539	2.453	Hog	51	10.00
165	9+760.764	1648.639	9+772.170	1648.919	9+783.575	1649.459	2.453	4.734	Sag	23	10.00
166	9+876.525	1653.860	9+886.525	1654.333	9+896.525	1655.002	4.734	6.694	Sag	20	10.21
167	9+923.711	1656.822	9+934.234	1657.526	9+944.758	1658.009	6.694	4.589	Hog	21	10.00
168	9+958.611	1658.645	9+975.082	1659.401	9+991.554	1660.700	4.589	7.883	Sag	33	10.00
169	10+005.037	1661.762	10+017.537	1662.748	10+030.037	1661.676	7.883	-8.571	Hog	25	1.52
170	10+035.409	1661.216	10+045.409	1660.359	10+055.409	1659.691	-8.571	-6.679	Sag	20	10.57

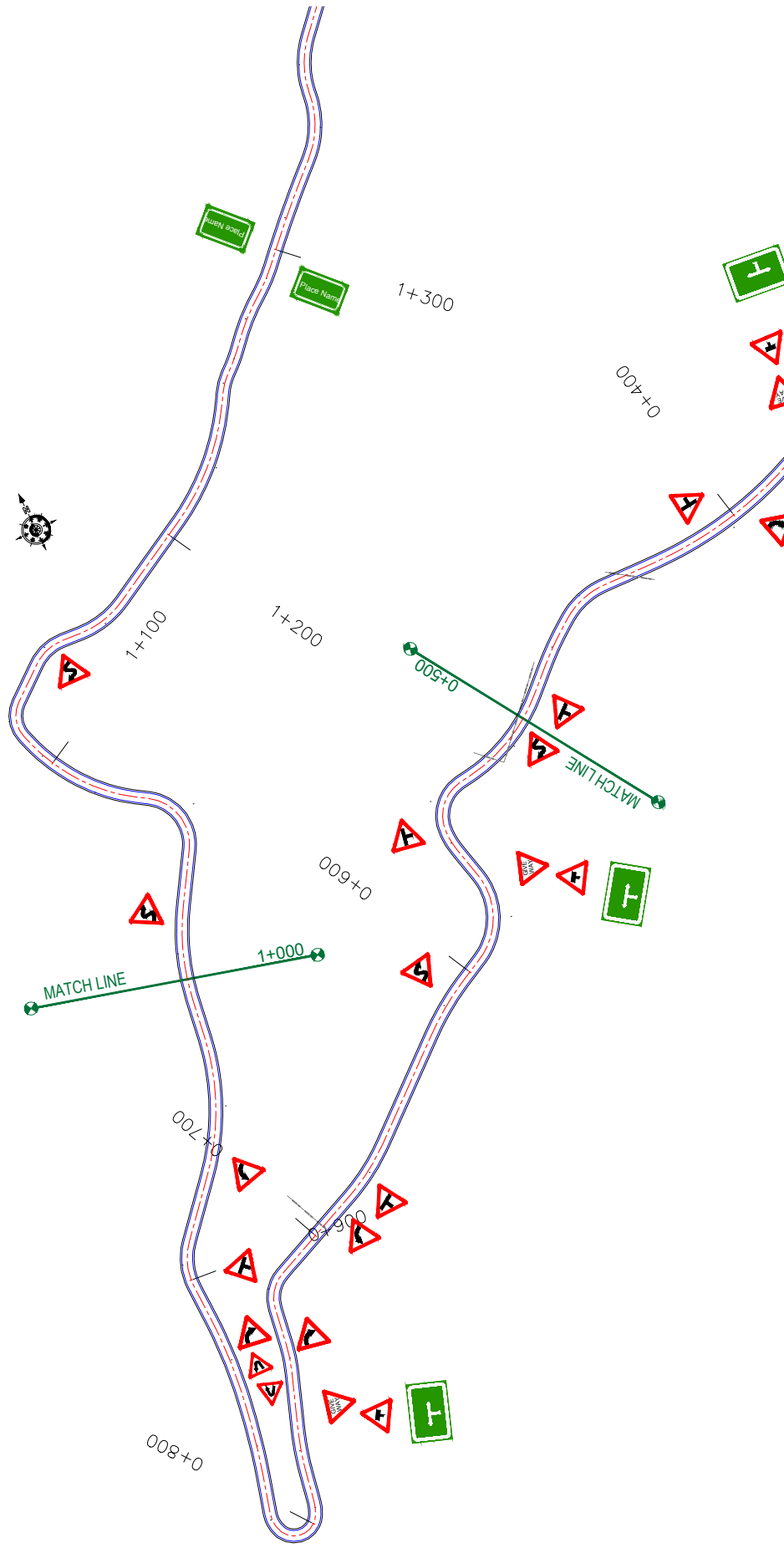
CLIENT:	 <p>Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.</p>	PROJECT:	<p>Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)</p>		DESIGN CONSULTANT:	 <p>eptisa Eptisa Servicios de Ingeniería 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>	REV	DATE	DESCRIPTION	
			SCALE:	N.T.S			REVISION:	R-1		
		DRAWN BY:	SD	TITLE:	Vertical Alignment Report					
		DESIGNED BY:	SCK/MM							
		APPROVED BY:	KG	DRG. NO.: EPTISAJTFRPDRJUKKVAR/04						
					September 2019					

☰ SCHEDULE OF SIGNAGE ☰




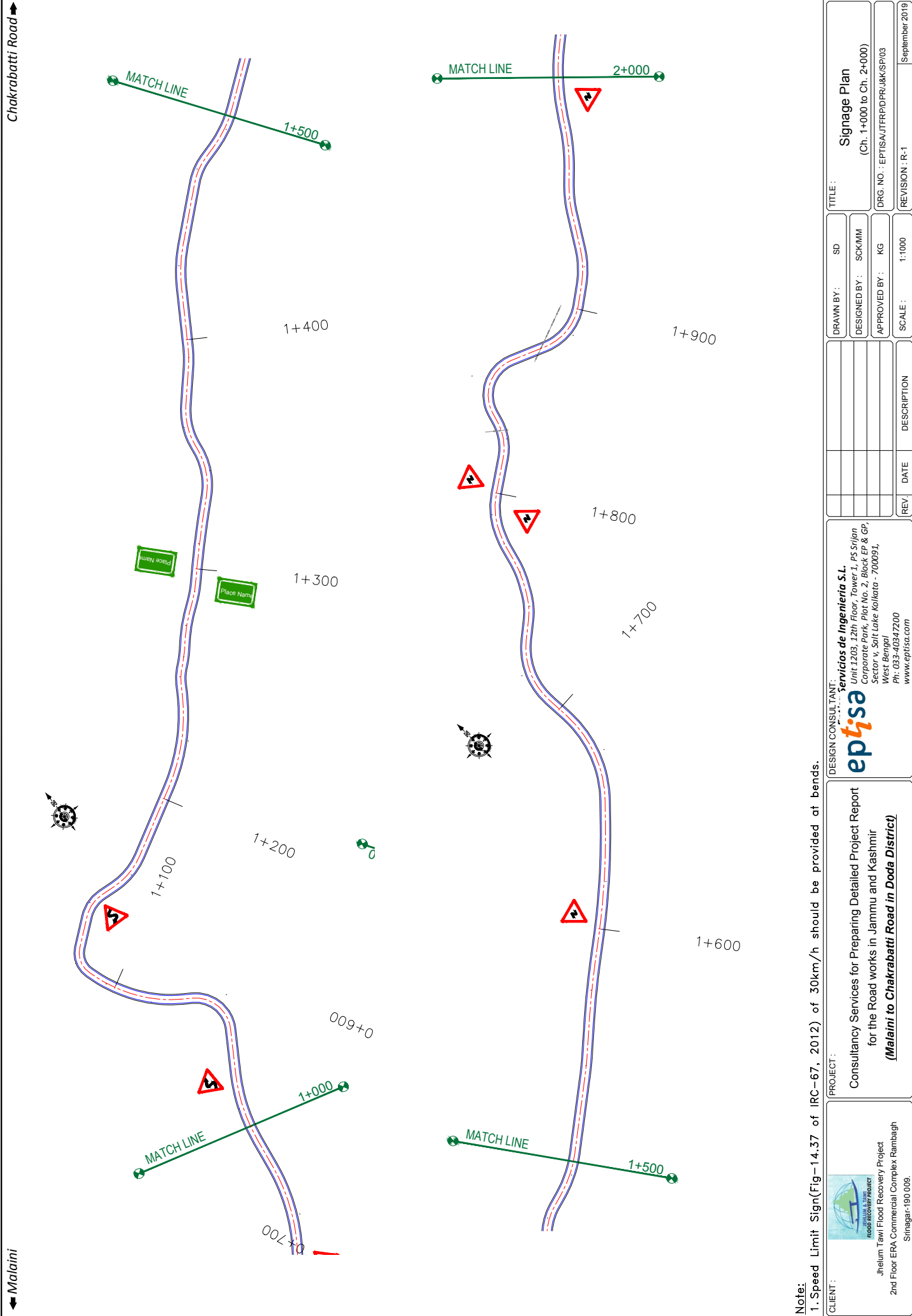
Note:
 1. Speed Limit Sign (Fig-14.37 of IRC-67, 2012) of 30km/h should be provided at bends.

CLIENT:  Jhelum Talavi 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 (Malaini to Chakrabatti Road in Doda 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		TITLE: Signage Plan (Ch. 0+000 to Ch. 0+500)	
		REV. DATE DESCRIPTION	DRAWN BY: SD DESIGNED BY: SCK/MM APPROVED BY: KG	SCALE: 1:1000	DRG. NO.: EPTISAJTRPPDRJ&K/SP01 REVISION: R-1



Note:
1. Speed Limit Sign (Fig-14.37 of IRC-67, 2012) of 30km/h should be provided at bends.

CLIENT:  Jhelum Talvi 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 (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT: epitisa <i>servicios de ingenieria S.L.</i> 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.epitisa.com		TITLE: Signage Plan (Ch. 0+500 to Ch. 1+000)
		DRAWN BY: SD	DESIGNED BY: SCKMM	APPROVED BY: KG
REV:	DATE:	DESCRIPTION:	SCALE: 1:1000	SEPTEMBER 2019




Chakrabatti Road

Malaini

Note:
1. Speed Limit Sign (Fig-14.37 of IRC-67, 2012) of 30km/h should be provided at bends.

CLIENT:

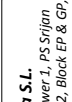


Jhelum Talvi Flood Recovery Project
2nd Floor ERA Commercial Complex Rambagh
Srinagar-190 009.

PROJECT:

Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
(Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:

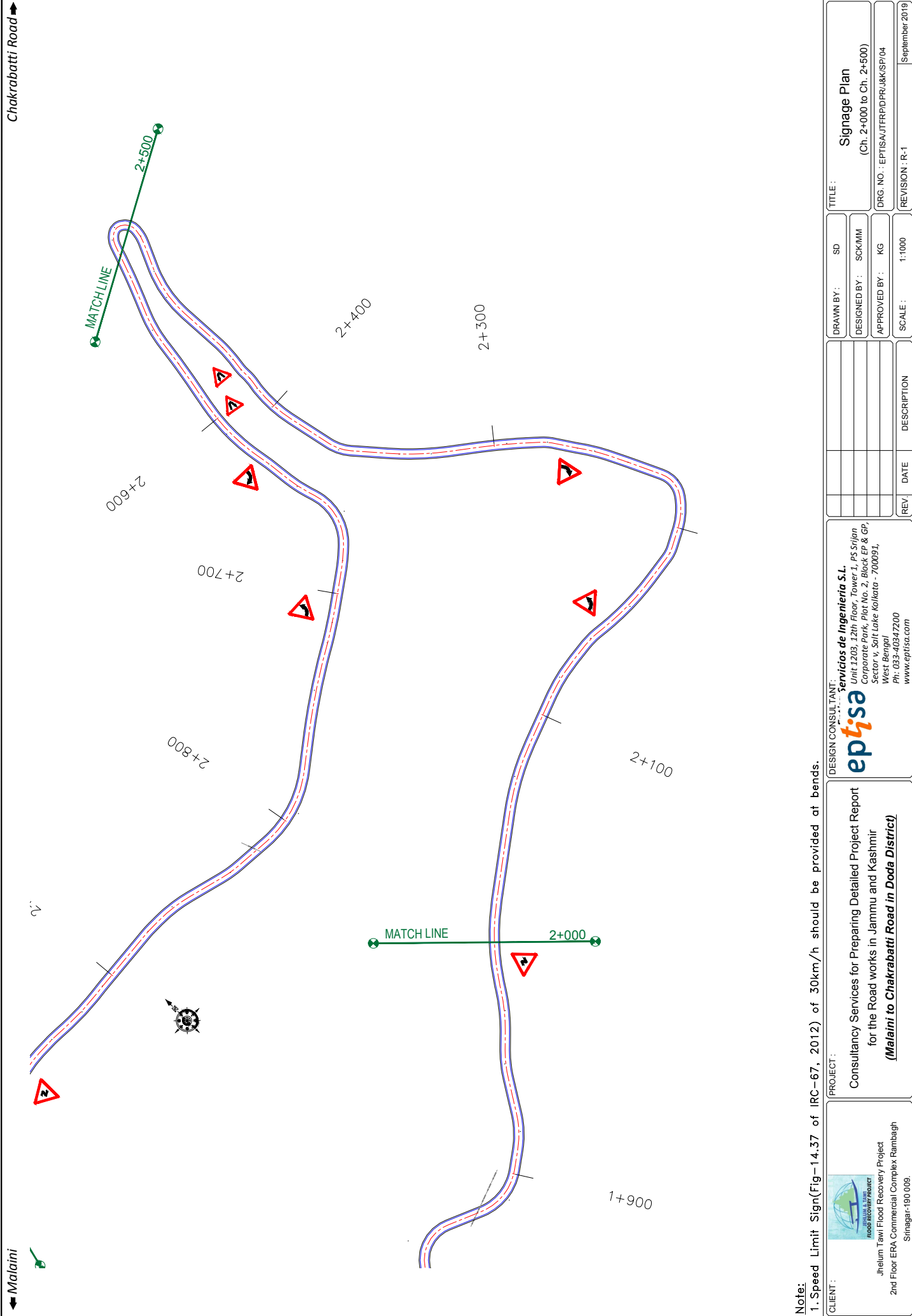


servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector V, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV	DATE	DESCRIPTION

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

TITLE :	Signage Plan (Ch. 1+000 to Ch. 2+000)
DRG. NO. :	EPTISAJTRPRDPRJ08KSP103
REVISION :	R-1
	September 2019



← Malaini

Chakrabatti Road →

Note:
1. Speed Limit Sign (Fig-14.37 of IRC-67, 2012) of 30km/h should be provided at bends.


CLIENT:



Jhelum Talavi 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 (Malaini to Chakrabatti Road in Doda 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

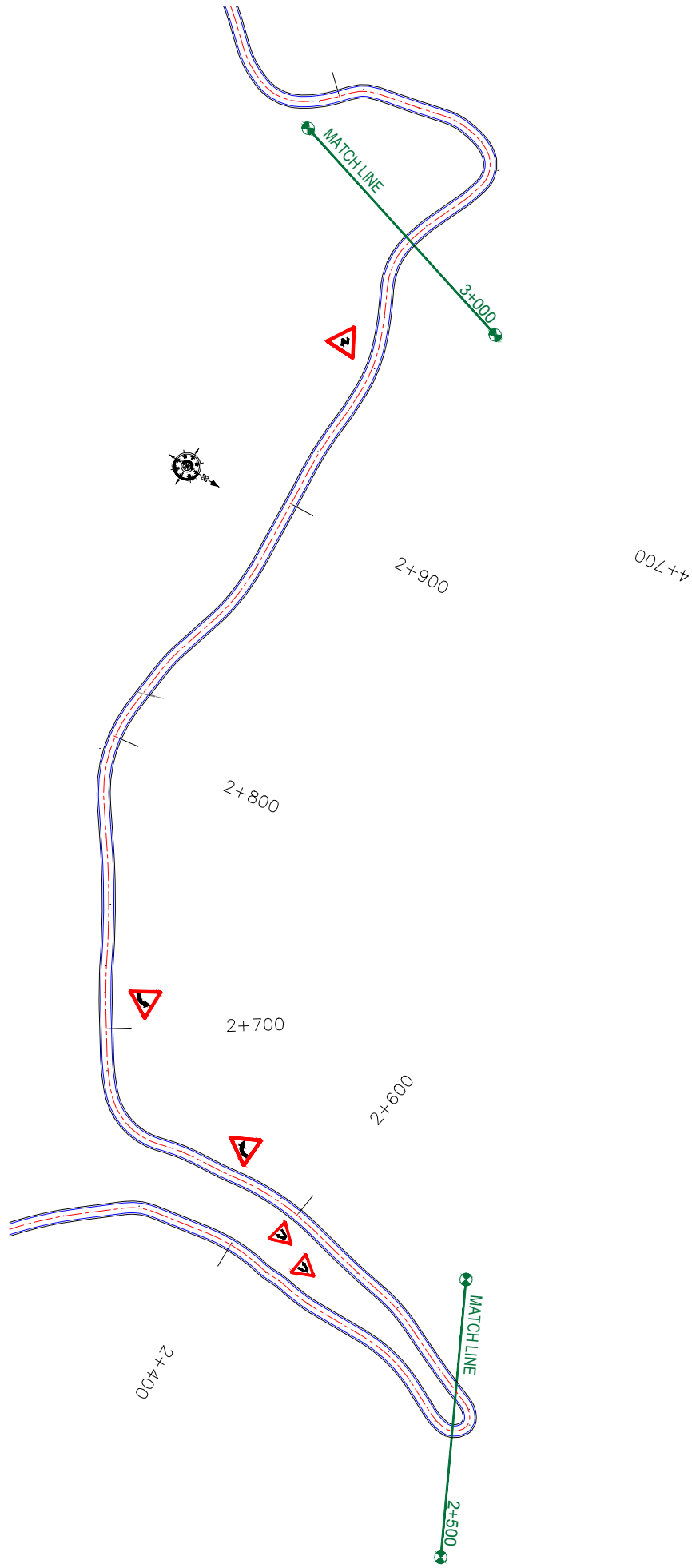
REV	DATE	DESCRIPTION

DRAWN BY:	SD	TITLE:	Signage Plan
DESIGNED BY:	SCK/MM		(Ch. 2+000 to Ch. 2+500)
APPROVED BY:	KG	DRG. NO.:	EPTISAJTRPRDPRJ08KSP104
SCALE:	1:1000	REVISION:	R-1

September 2019


← Malaini

Chakrabatti Road →



Note:
 1. Speed Limit Sign (Fig-14.37 of IRC-67, 2012) of 30km/h should be provided at bends.


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
 (Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:

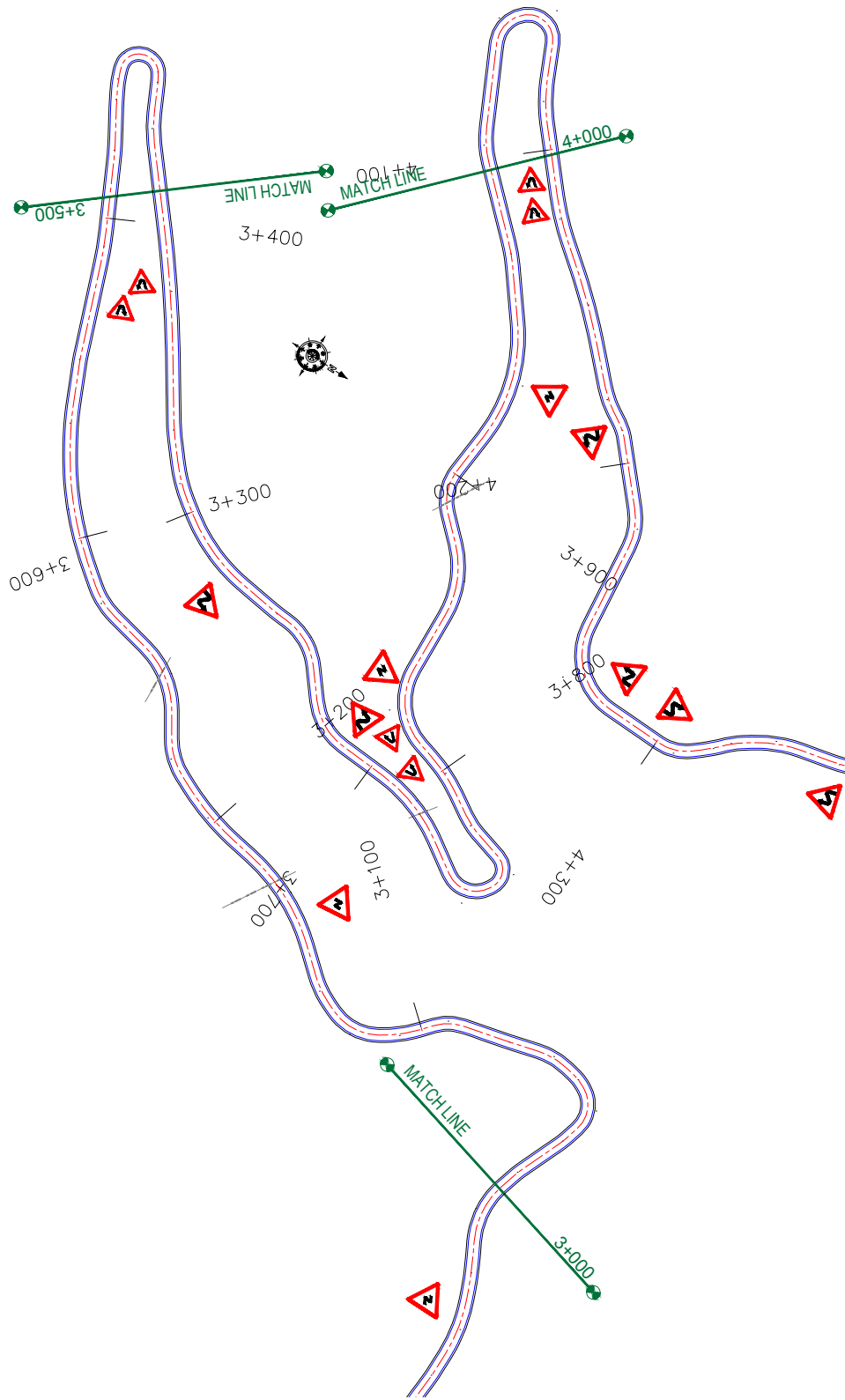


servicios de Ingenieria S.L.
 Unit 1203, 12th Floor, Tower 1, PS Srijan
 Corporate Park, Plot No. 2, Block EP & GP,
 Sector V, Salt Lake Kolkata - 700091,
 West Bengal
 Ph: 033-40347200
 www.eptisa.com

REV	DATE	DESCRIPTION	SCALE	REVISION
			1:1000	R-1

DRAWN BY:	SD	TITLE:	Signage Plan
DESIGNED BY:	SCK/MM		(Ch. 2+500 to Ch. 3+000)
APPROVED BY:	KG	DRG. NO.:	EPTISAJTRPRDPRJ08KIS/SP05
		REVISION:	R-1

September 2019



Note:
1. Speed Limit Sign (Fig-14.37 of IRC-67, 2012) of 30km/h should be provided at bends.

CLIENT:



Flood Recovery Project
Jhelum Talvi 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 (Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:

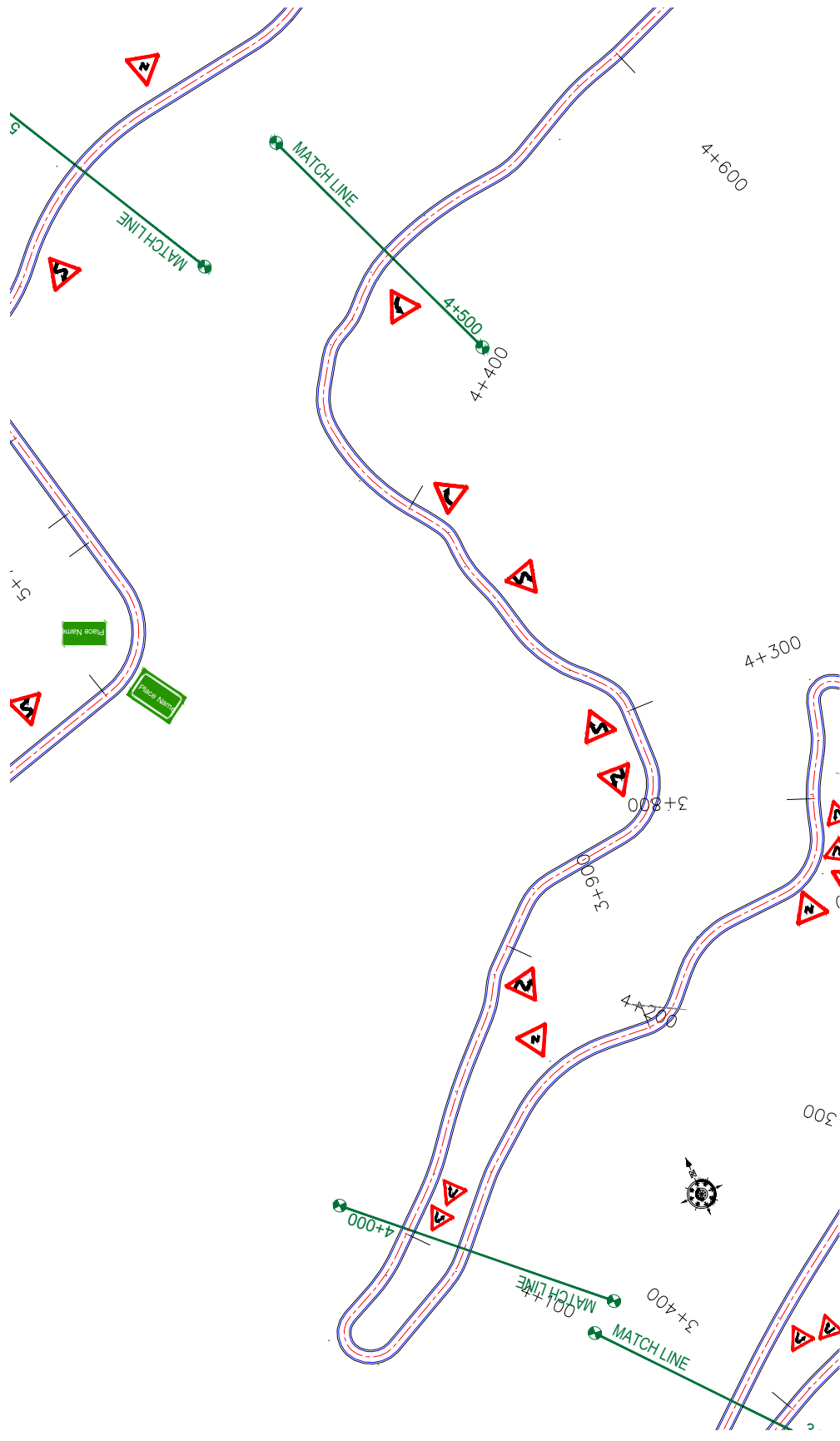


servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector V, Salt Lake Kolkata - 700091, West Bengal
Ph: 033-40347200
www.eptisa.com

REV	DATE	DESCRIPTION	SCALE	REVISION	TITLE
			1:1000	R-1	Signage Plan (Ch. 3+000 to Ch. 4+000) DRG. NO. : EPTISAJTRFRDPDJ8K/SP106 REVISION : R-1 September 2019



← Malaini

Chakrabatti Road →



Note:

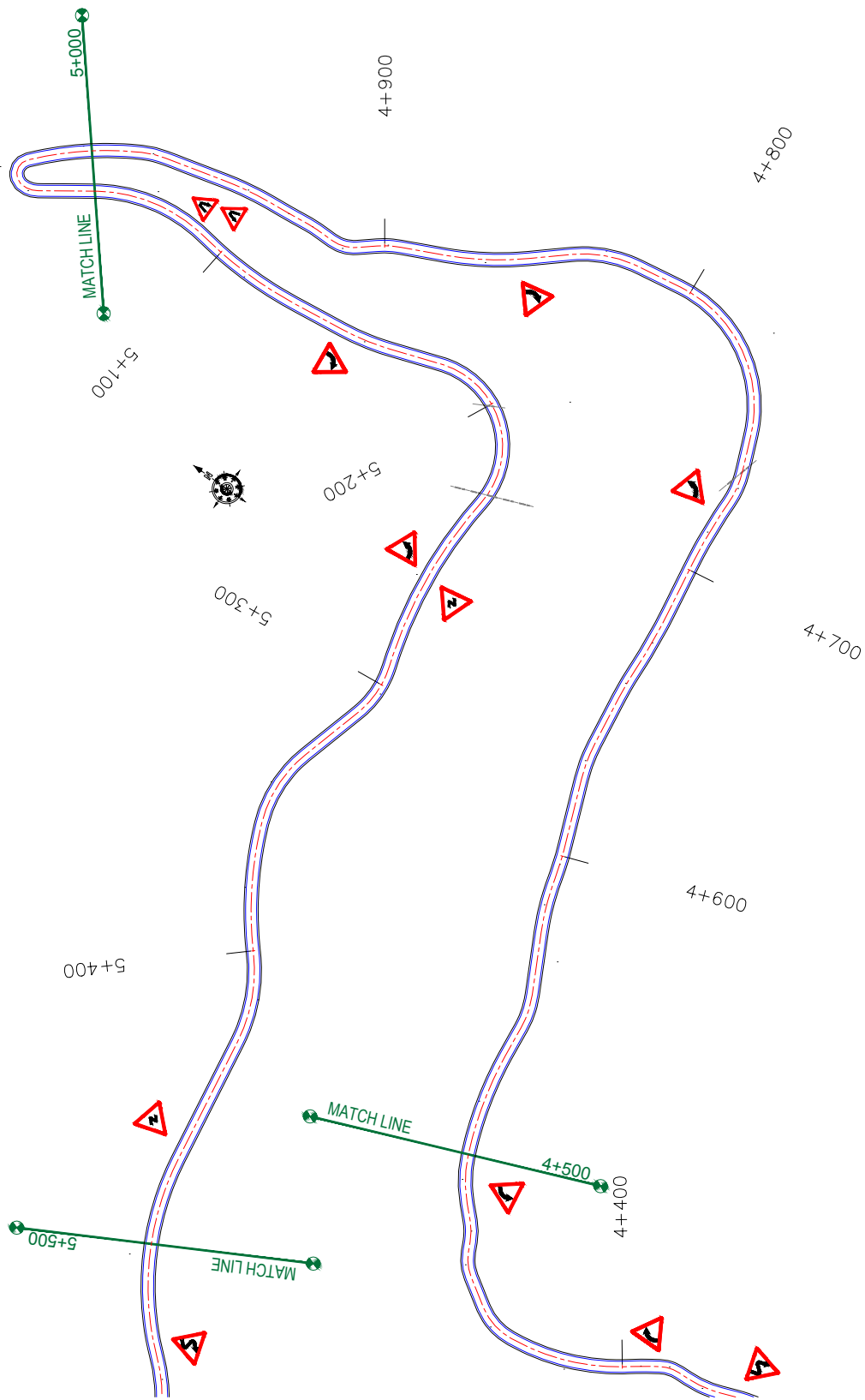
1. Speed Limit Sign (Fig-14.37 of IRC-67, 2012) of 30km/h should be provided at bends.

CLIENT:  Jhelum Talvi 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 (Malaini to Chakrabatti Road in Doda 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	DRAWN BY: SD	TITLE: Signage Plan (Ch. 4+000 to Ch. 4+500)
			DESIGNED BY: SCK/MM	DRG. NO.: EPTISAJTRPPDPRJ08K/SP107
	DATE:	DESCRIPTION:	REV:	REVISION: R-1



September 2019

← Malaini

Chakrabatti Road →

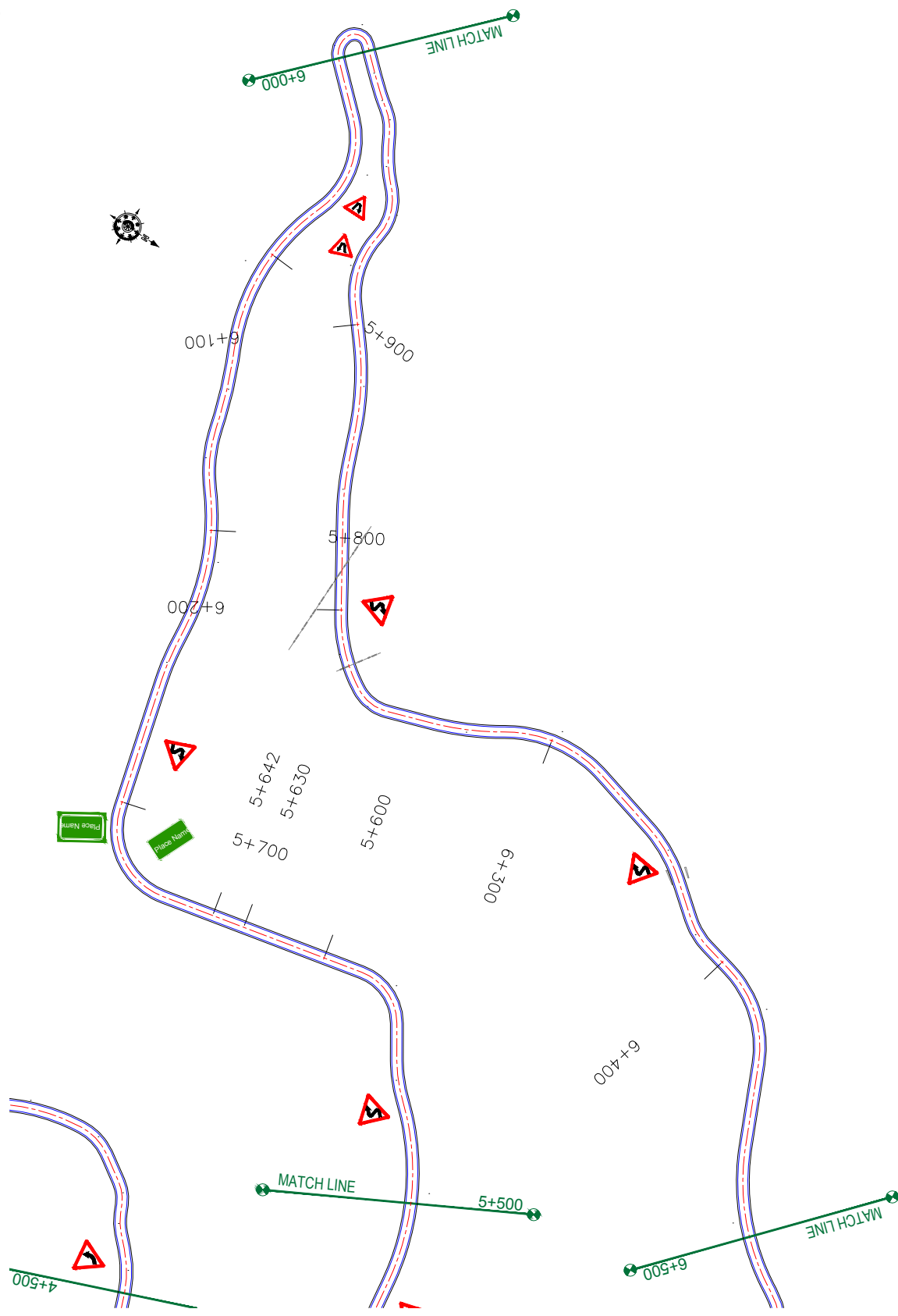


Note:
 1. Speed Limit Sign (Fig-14.37 of IRC-67, 2012) of 30km/h should be provided at bends.

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 (Malaini to Chakrabatti Road in Doda 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		TITLE: Signage Plan (Ch. 4+500 to Ch. 5+500)
		DRAWN BY: SD	DESIGNED BY: SCKMM	APPROVED BY: KG
REV.	DATE	DESCRIPTION	SCALE: 1:1000 REVISION: R-1 September 2019	

Malaini


Chakrabatti Road



Note:

1. Speed Limit Sign (Fig-14.37 of IRC-67, 2012) of 30km/h should be provided at bends.

CLIENT:



Jhelum Talvi 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
(Malaini to Chakrabatti Road in Doda District)

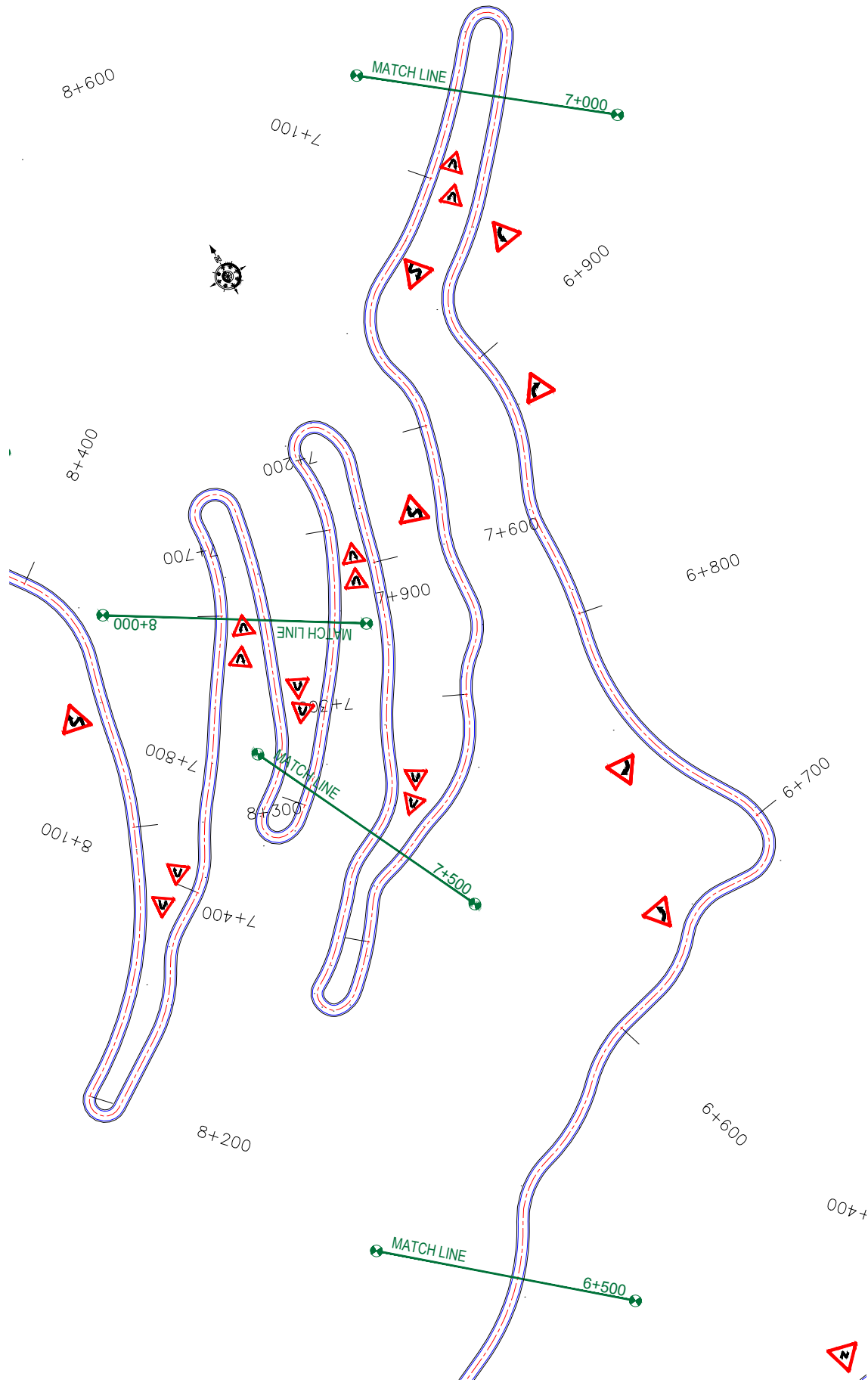
DESIGN CONSULTANT:



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
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REV	DATE	DESCRIPTION	SCALE	TITLE
			1:1000	Signage Plan (Ch. 5+500 to Ch. 6+500) DRG. NO. : EPTISAJTRPRDPRJ08KSP109 REVISION : R-1

September 2019



Note:
1. Speed Limit Sign (Fig-14.37 of IRC-67, 2012) of 30km/h should be provided at bends.

CLIENT:




Jhelum Talavi 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
(Malaini to Chakrabatti Road in Doda District)

DESIGN CONSULTANT:

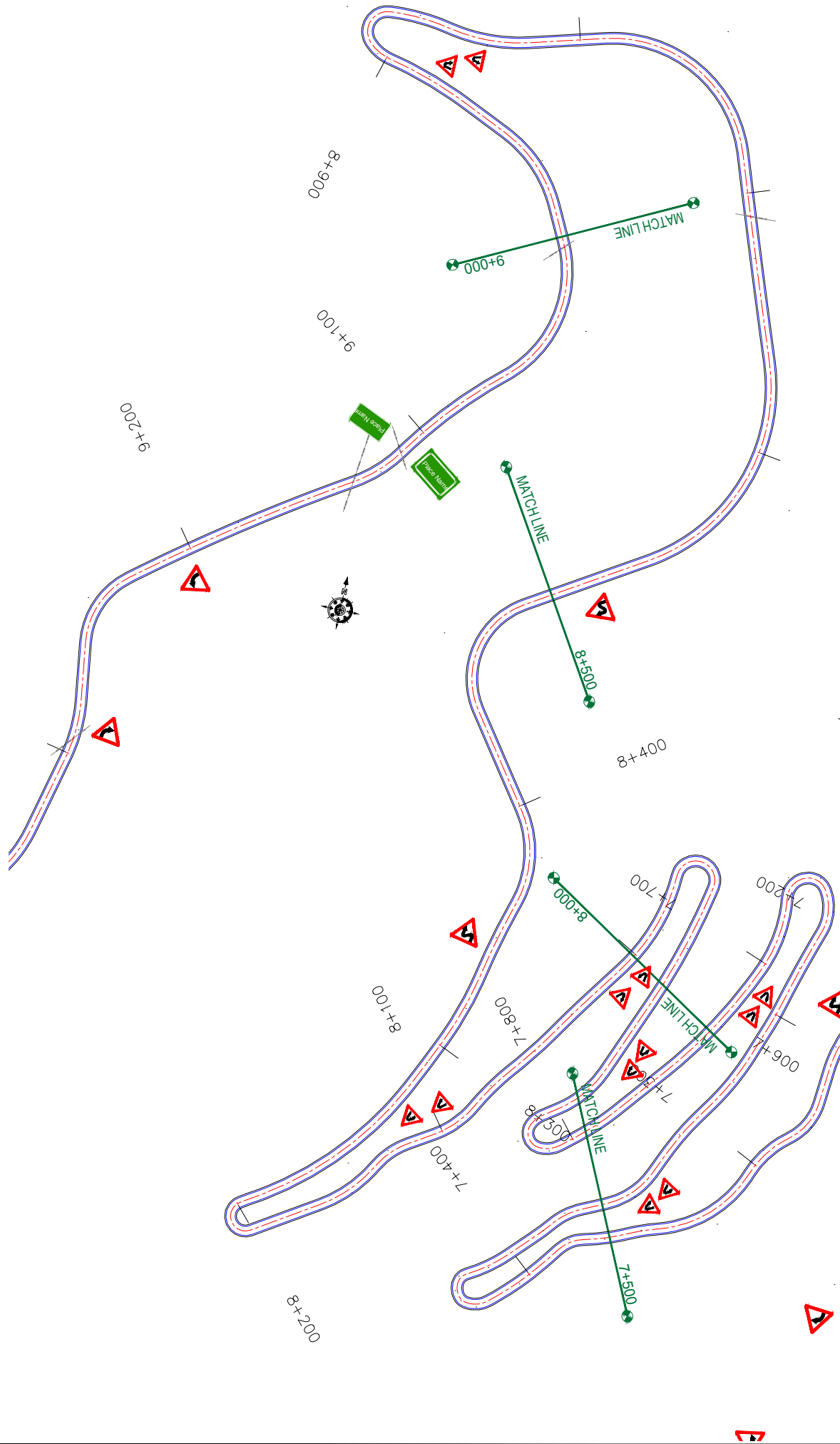


servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector V, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

REV	DATE	DESCRIPTION	SCALE	REVISION
			1:1000	R-1

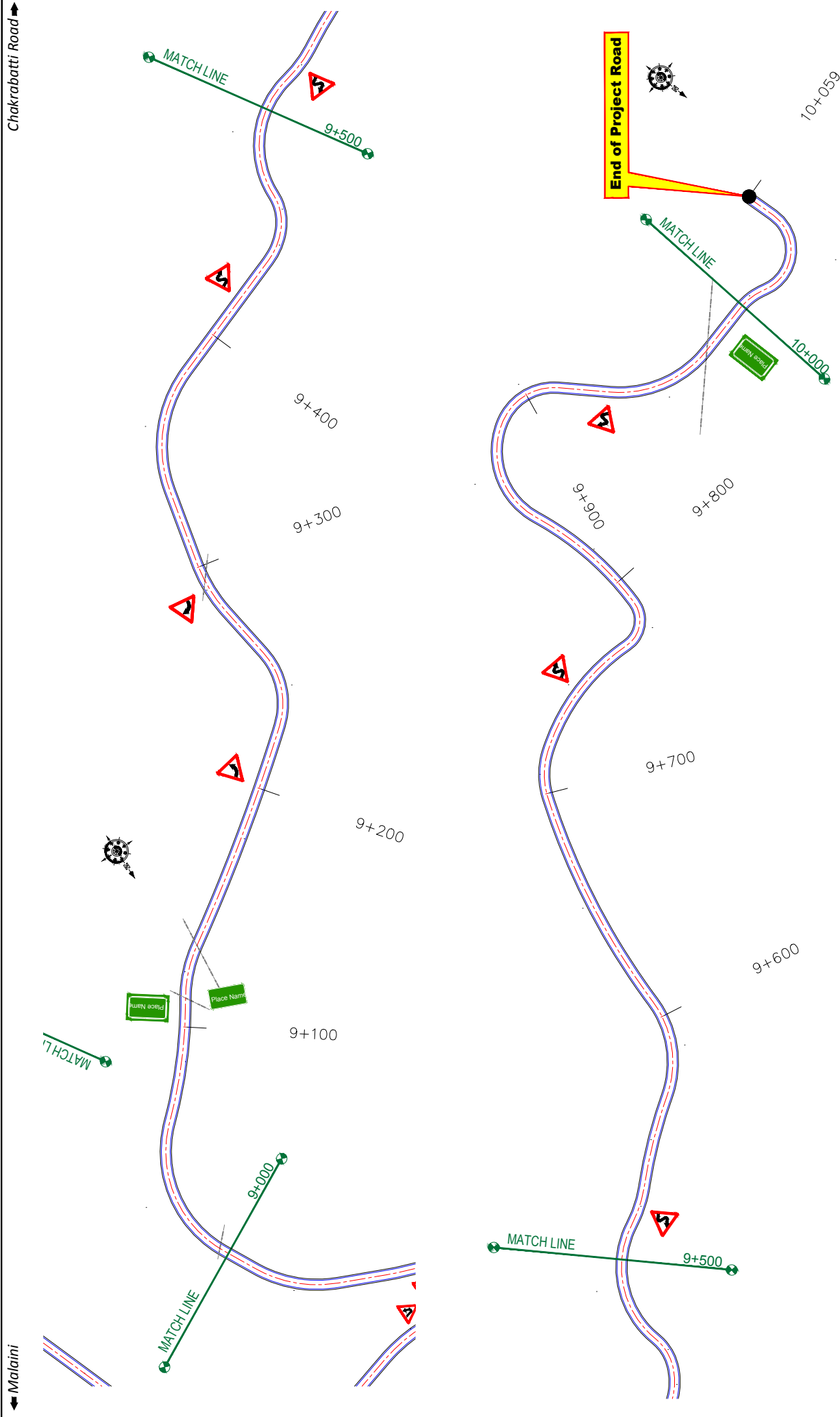
DRAWN BY:	SD	TITLE:	Signage Plan
DESIGNED BY:	SCK/MM	(Ch. 6+500 to Ch. 8+000)	
APPROVED BY:	KG	DRG. NO.:	EPTISAJTRPPDRJ&K/SP/10
SCALE:	1:1000	REVISION:	R-1

September 2019



Note:
1. Speed Limit Sign (Fig-14.37 of IRC-67, 2012) of 30km/h should be provided at bends.

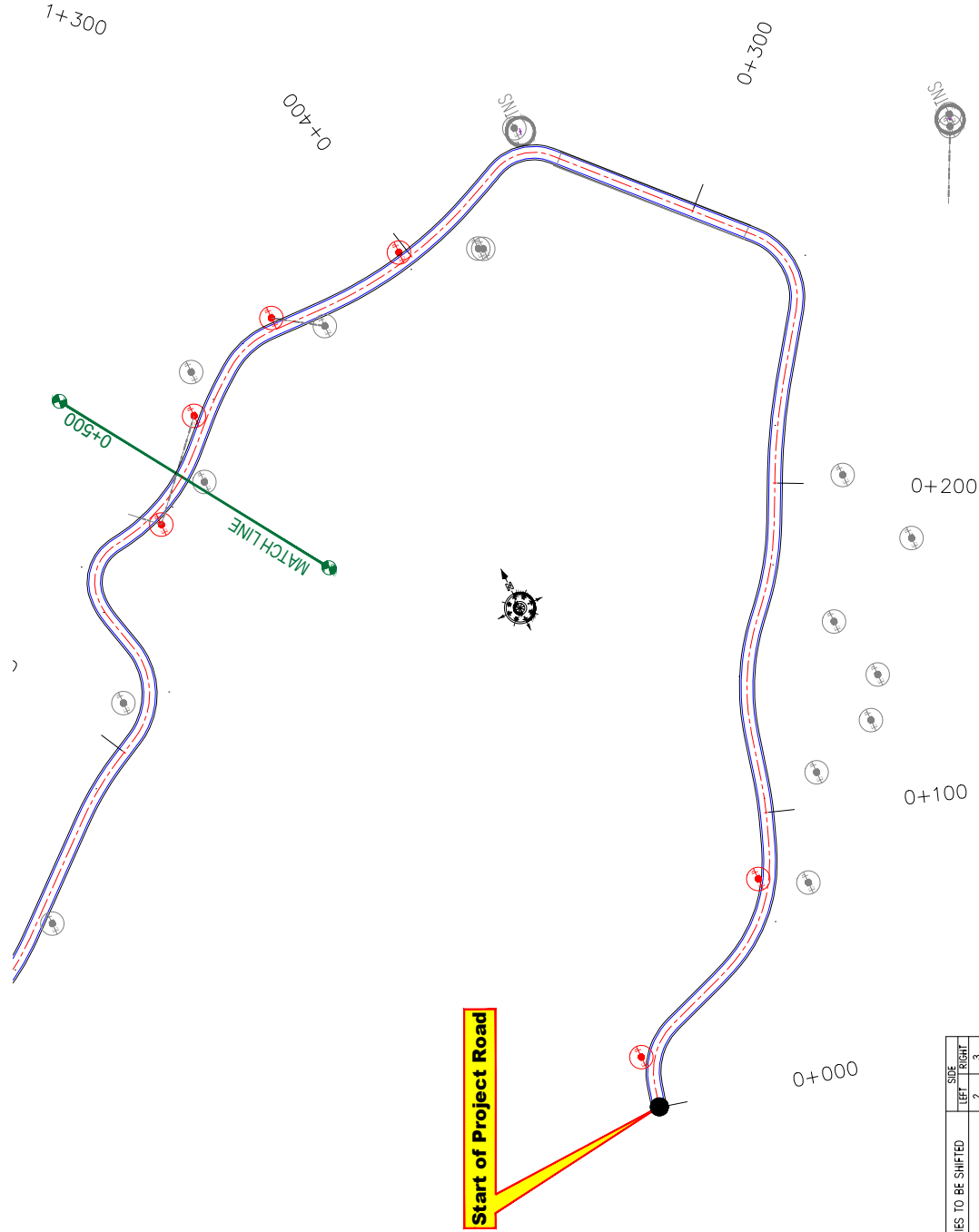
CLIENT:  Jhelum Talavi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.	PROJECT: Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT: epi <i>servicios de ingenieria s.l.</i> 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.epiisa.com		TITLE: Signage Plan (Ch. 8+000 to Ch. 9+000)
		DRAWN BY: SD	DESIGNED BY: SCKMM	APPROVED BY: KG
REV:	DATE:	DESCRIPTION:	DRG. NO.: EPTISAJTRFRDPFRJ&KSP111	REVISION: R-1
				(September 2019)



Note:
1. Speed Limit Sign (Fig-14.37 of IRC-67, 2012) of 30km/h should be provided at bends.

 Jhelum Talavi 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 (Malaini to Chakrabatti Road in Doda District)		DESIGN CONSULTANT: epi 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.epiisa.com	
	CLIENT:	TITLE: Signage Plan (Ch. 9+000 to Ch. 10+059)	DRAWN BY: SD	SCALE: 1:1000
	DATE:	DESCRIPTION:	DESIGNED BY: SCK/MM	REVISION: R-1
	REV:	DATE:	APPROVED BY: KG	DRG. NO.: EPTISAJTFRPDRJ&KSP12

UTILITY RELOCATION PLAN FOR MAIN ROAD (ELECTRICITY DEPARTMENT)



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

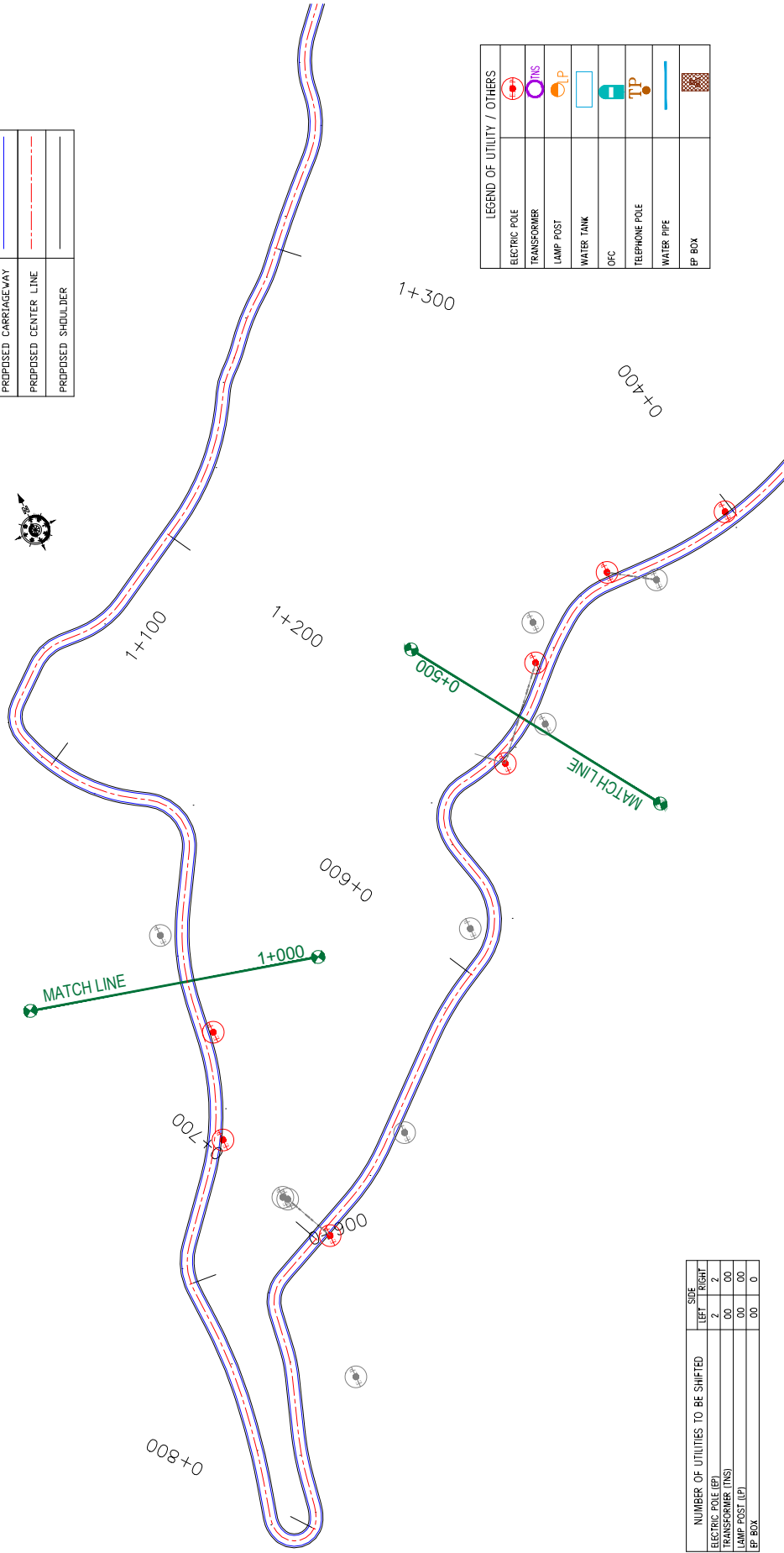
LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

Start of Project Road

NUMBER OF UTILITIES TO BE SHIFTED	SITE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	2	3
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	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 (Malaini to Chakrabatti Road in Doda 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	SCALE: 1:1000	APPROVED BY: KG	DESIGNED BY: SCK/MM	DRAWN BY: SD	TITLE: Utility Relocation Plan (For Electricity Department) (Ch. 0+000 to Ch. 0+500)
			REVISION: R-1	1:1000	EPTISAJTFRRPDRJUKURP/01	September 2019				

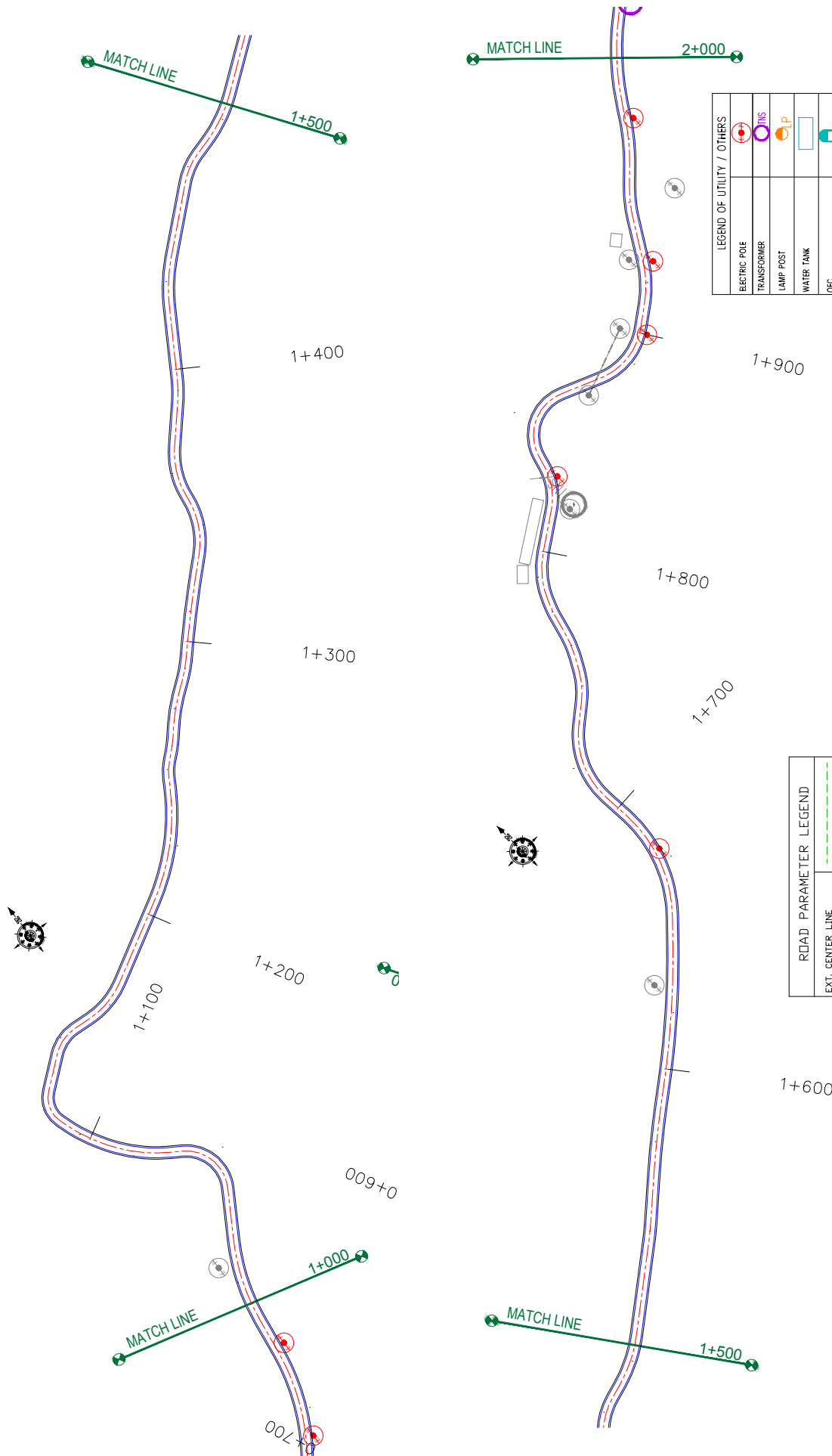
ROAD PARAMETER LEGEND	
EXT. CENTER LINE	- - - - -
PROPOSED CARRIAGEWAY	—————
PROPOSED CENTER LINE	- · - · -
PROPOSED SHOULDER	—————



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

NUMBER OF UTILITIES TO BE SHIFTED	SITE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	2	2
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	0

CLIENT :  Jhelum Talvi 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 (Malaini to Chakrabatti Road in Doda District)	DESIGN CONSULTANT : epi <i>servicios de ingenieria S.L.</i> 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.epiisa.com		TITLE : Utility Relocation Plan (For Electricity Department) (Ch. 0+500 to Ch. 1+000)	
		DRAWN BY : SD	DESIGNED BY : SCK/MM	APPROVED BY : KG	DRG. NO. : EPTISAJTFRRPDRJUKURP/02
		REV. DATE DESCRIPTION	SCALE : 1:1000	REVISION : R-1	DATE :
		REV. DATE DESCRIPTION	SCALE : 1:1000	REVISION : R-1	DATE :

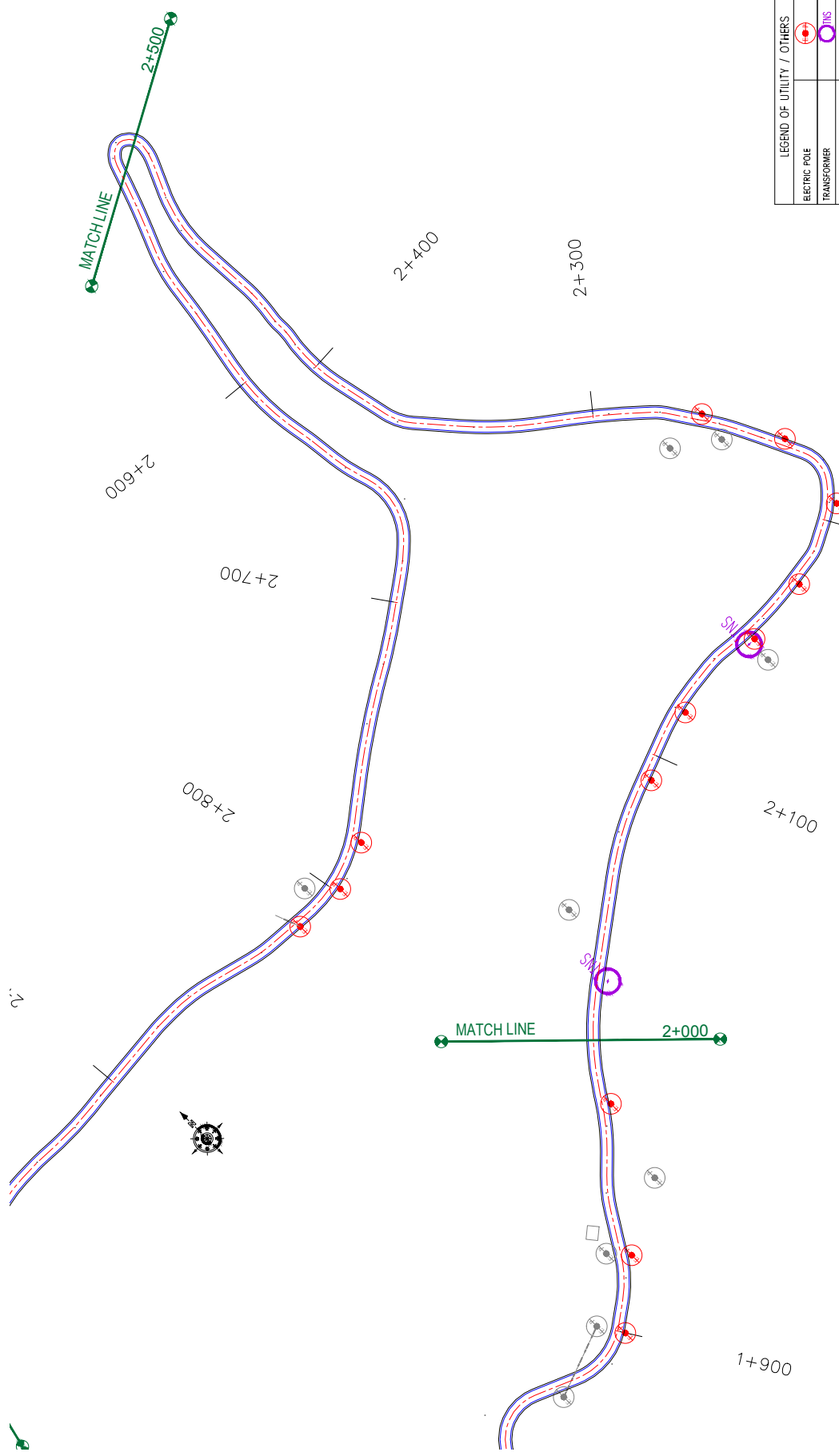


NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	0	5
TRANSFORMER (TMS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	0

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	

CLIENT:	 Jhelum Tabwi 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 (Malaini to Chakrabatti Road in Doda 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: Utility Relocation Plan (For Electricity Department) (Ch. 1+000 to Ch. 2+000)		
DESIGNED BY: SCK/MM		DRG. NO.: EPTISAJTRPPDRJ8KURP/03		
APPROVED BY: KG		REVISION: R-1		
REV	DATE	DESCRIPTION	SCALE: 1:1000	
			September 2019	

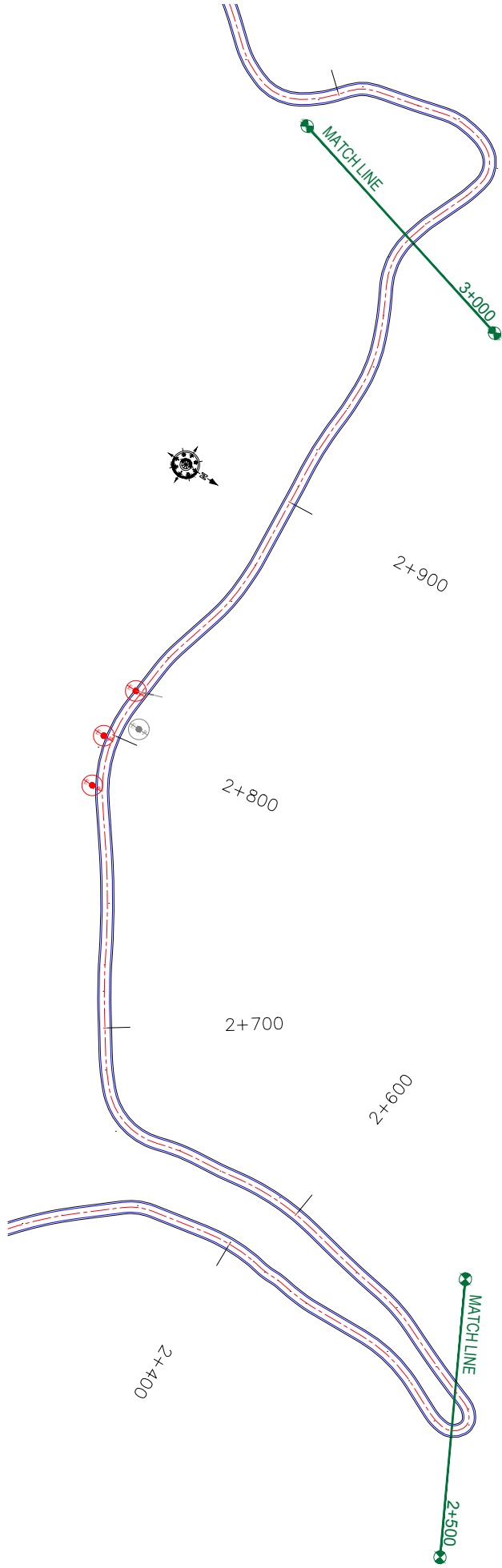


NUMBER OF UTILITIES TO BE SHIFTED		SIDE	
		LEFT	RIGHT
ELECTRIC POLE (EP)	0	0	7
TRANSFORMER (TMS)	00	00	2
LAMP POST (LP)	00	00	00
EP BOX	00	00	0

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	

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 (Malaini to Chakrabatti Road in Doda District)	
			DESIGN CONSULTANT:	servicios de Ingenieria S.L. eptisa 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: Utility Relocation Plan (For Electricity Department) (Ch. 2+000 to Ch. 2+500)		
DESIGNED BY: SCK/MM		DRG. NO.: EPTISAJTRPDRPJ8KURP/04		
APPROVED BY: KG		REVISION: R-1		
REV	DATE	DESCRIPTION	SCALE: 1:1000	
			September 2019	




NUMBER OF UTILITIES TO BE SHIFTED	SIZE	
	LEFT	RIGHT
ELECTRIC POLE (EP)	3	0
TRANSFORMER (TMS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	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	

CLIENT :




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

PROJECT :

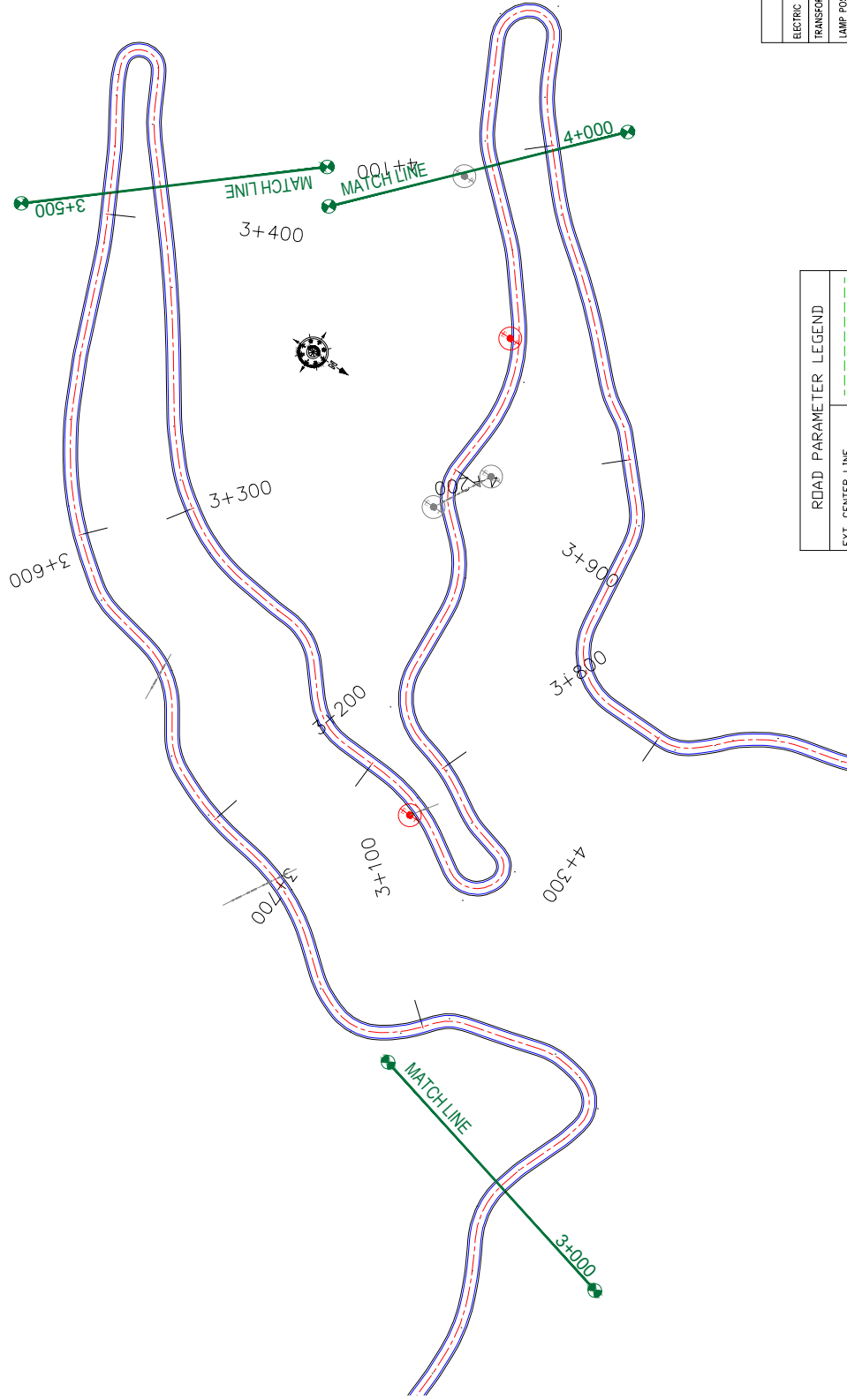
Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir
(Malaini to Chakrabatti Road in Doda District)

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	TITLE :
					Utility Relocation Plan (For Electricity Department) (Ch. 2+500 to Ch. 3+000)
			DESIGNED BY :	SCK/MM	
			APPROVED BY :	KG	DRG. NO. : EPTISAJTRPRDPRJ8KURP/05
			SCALE :	1:1000	REVISION : R-1
					September 2019



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	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	

CLIENT:




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
 (Malaini to Chakrabatti Road in Doda 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	TITLE:	Utility Relocation Plan (For Electricity Department) (Ch. 3+000 to Ch. 4+000)
DESIGNED BY:	SCK/MM	DRG. NO.:	EPTISAJTRPPDRJUKURP/06
APPROVED BY:	KG	SCALE:	1:1000
REVISION:	R-1	REVISION:	R-1