

LEGEND OF UTILITY / OTHERS

ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OPC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

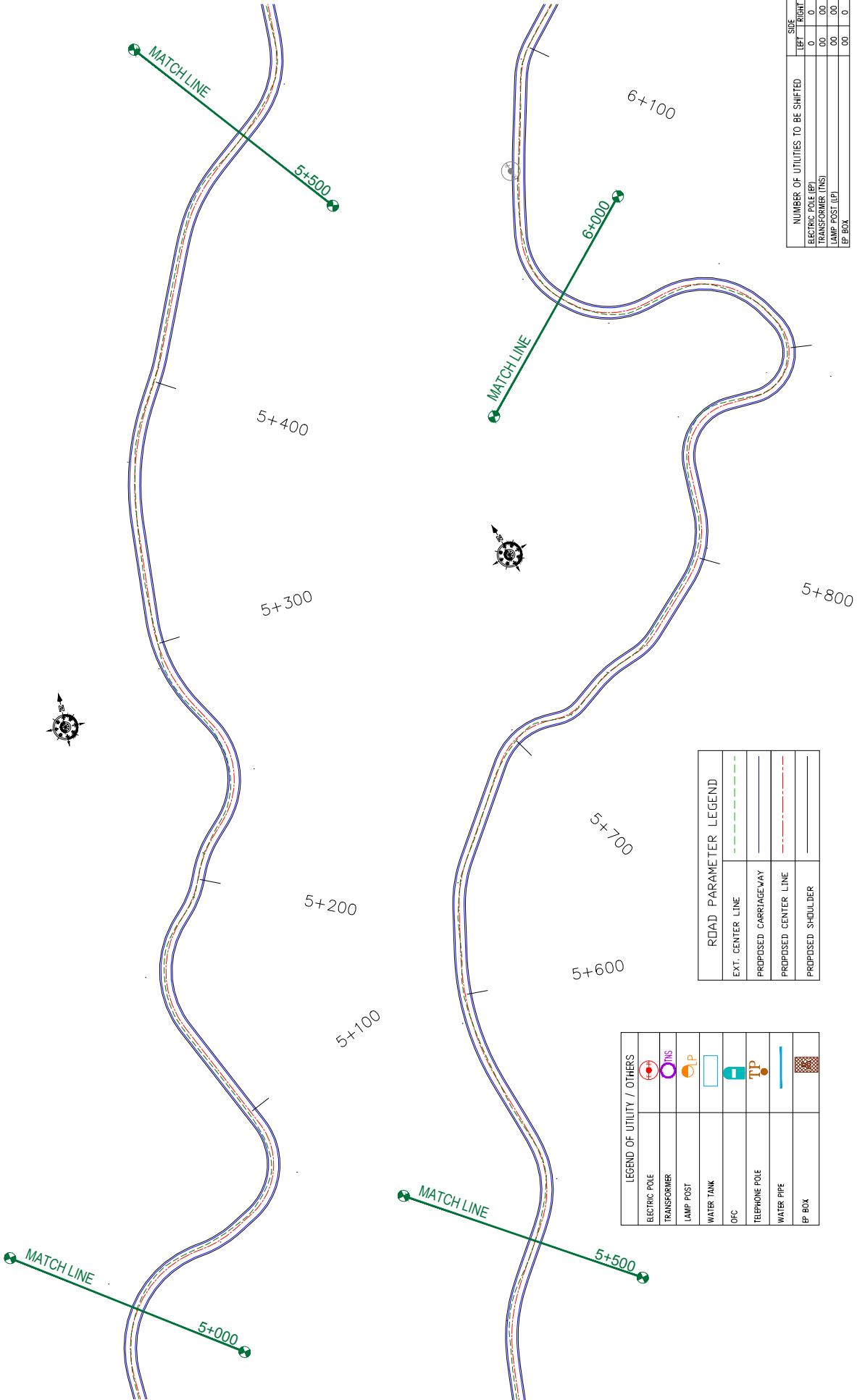
ROAD PARAMETER LEGEND

EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED

	LEFT	RIGHT
ELECTRIC POLE (EP)	0	0
TRANSFORMER (NS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	0

CLIENT:	 Jhelum Tavri 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 (Chiralla Link 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			REV.	DATE
DRAWN BY: SD		TITLE: Utility Relocation Plan (For Electricity Department) (Ch. 4+000 to Ch. 5+000)			SCALE: 1:1000
DESIGNED BY: SCK/MM		APPROVED BY: KG		DRG. NO.: EPTISAJTRPRDPRJ08KURP/05	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
ELECTRIC POLE (EP)	0	0
TRANSFORMER (TNS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	0

CLIENT:



Flood Recovery Project
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
 (Chiralla Link Road in Doda District)

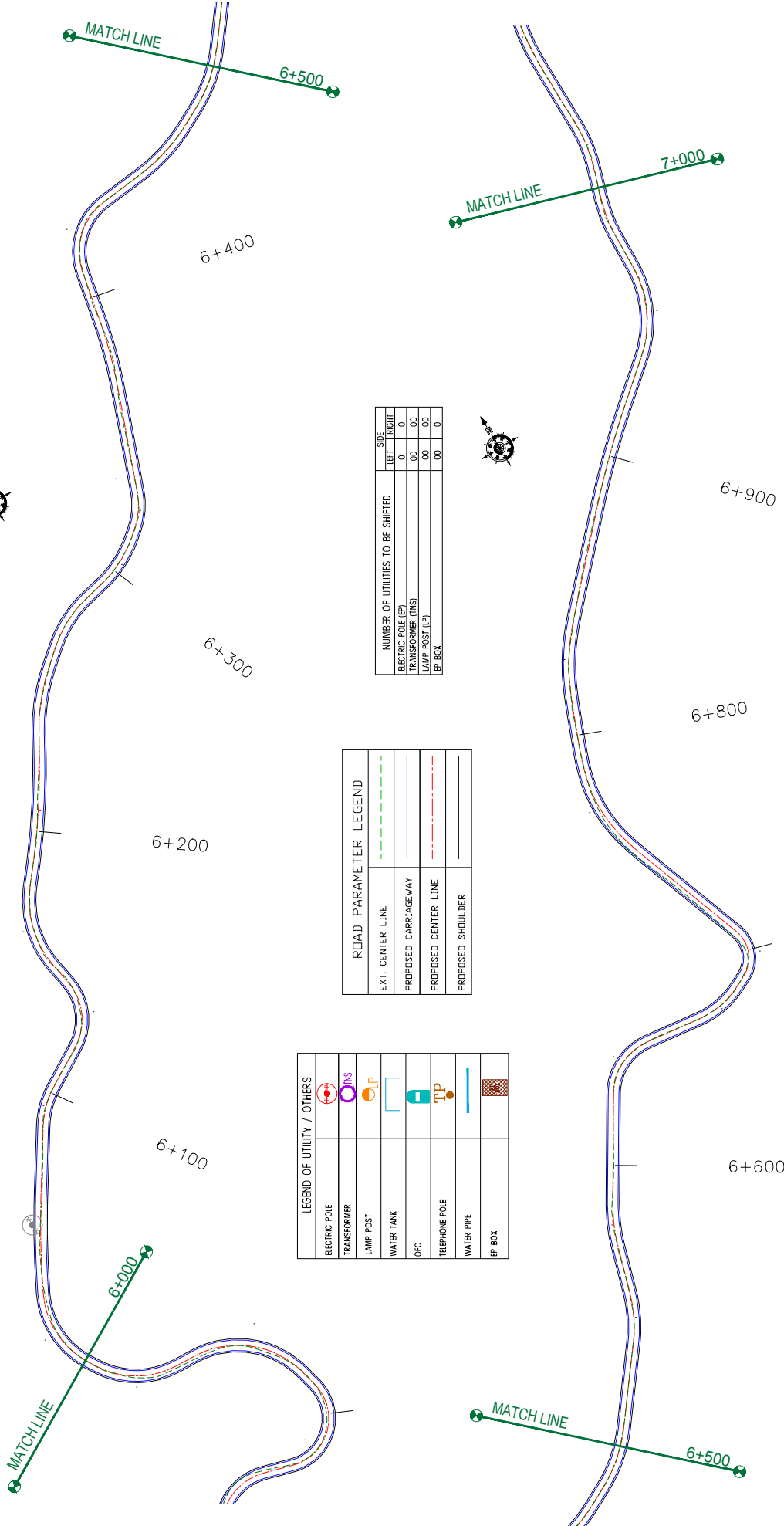
DESIGN CONSULTANT:



servicios de Ingenieria S.L.
 Unit 1203, 12th Floor, Tower 1, P5 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:	Utility Relocation Plan (For Electricity Department)
DESIGNED BY:	SCK/MM		(Ch. 5+000 to Ch. 6+000)
APPROVED BY:	KG	DRG. NO.:	EPTISAJTRPPDRJ8KURP/06
		REVISION:	R-1



LEGEND OF UTILITY / OTHERS

ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OPC	
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

	LEFT	RIGHT
ELECTRIC POLE (EP)	0	0
TRANSFORMER (INS)	00	00
LAMP POST (LP)	00	00
EP BOX	00	0

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
 (Chiralla Link Road in Doda District)

DESIGN CONSULTANT :

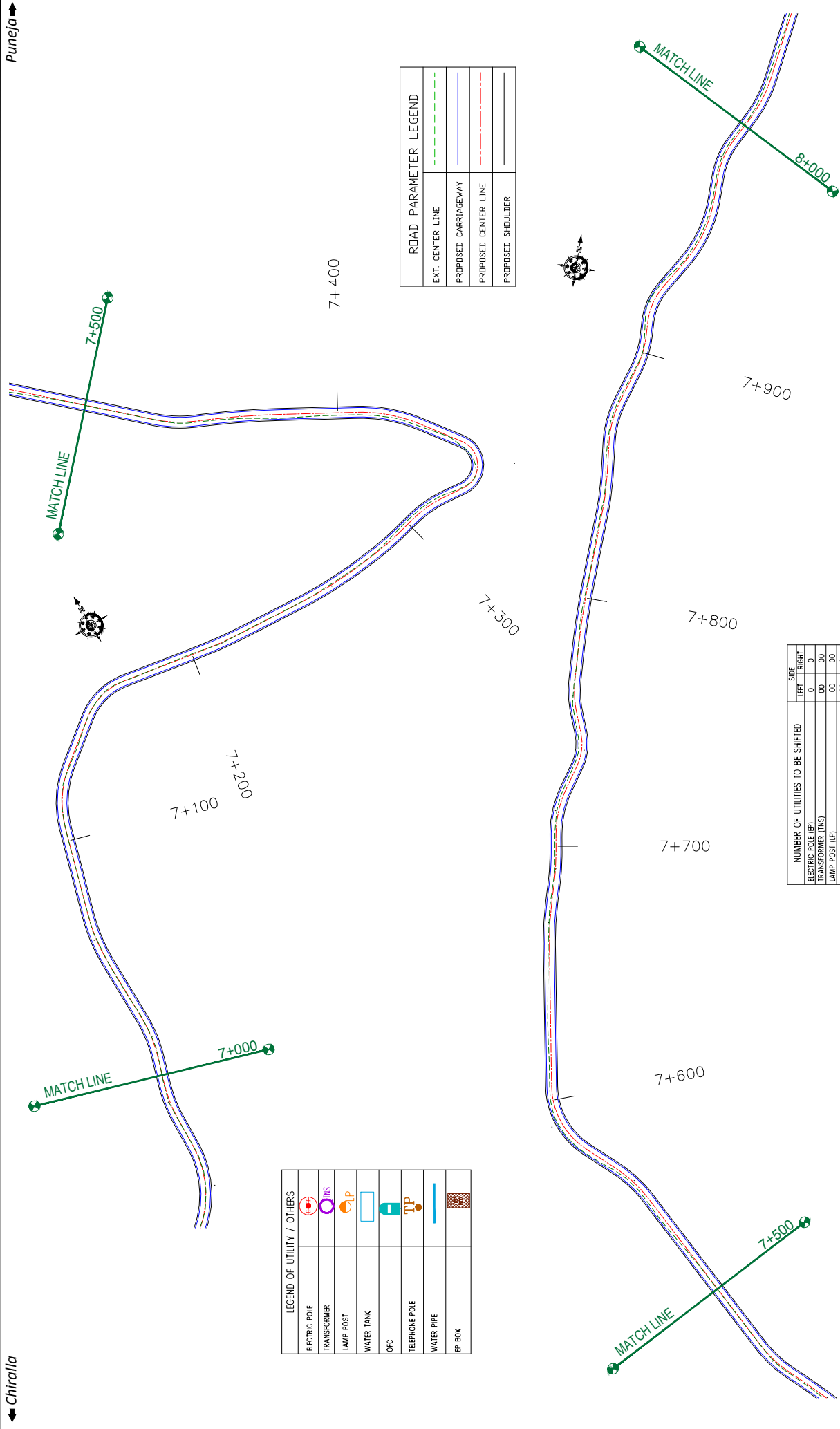


servicios de Ingenieria S.L.
 Unit 1203, 12th Floor, Tower 1, PS Srijan
 Corporate Park, Plot No. 2, Block EP & GP,
 Sector V, Salt Lake Kolkata - 700091,
 West Bengal
 Ph: 033-40347200
 www.eptisa.com

DRAWN BY :	SD	TITLE :	Utility Relocation Plan (For Electricity Department)
DESIGNED BY :	SCK/MM		(Ch. 6+000 to Ch. 7+000)
APPROVED BY :	KG	DRG. NO. :	EPTISAJTRPRDPRJ8KURP/07
SCALE :	1:1000	REVISION :	R-1
REV.	DATE	DESCRIPTION	

Chiralla

Puneja



LEGEND OF UTILITY / OTHERS

ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND

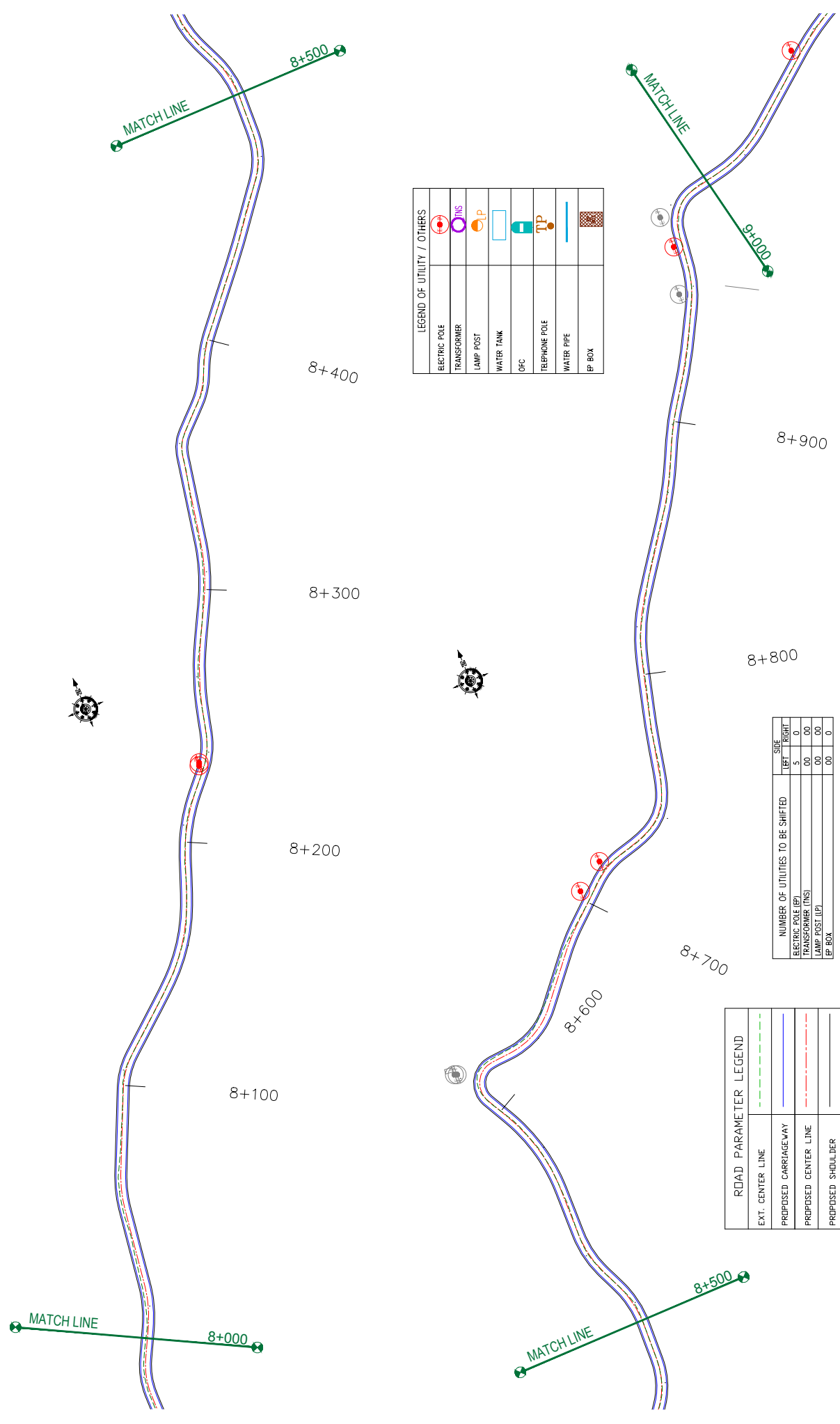
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

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

<p>CLIENT:</p> <p>Jhelum Tarai 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 (Chiralla Link Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>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</p>	<p>TITLE: Utility Relocation Plan (For Electricity Department) (Ch. 7+000 to Ch. 8+000)</p> <p>DRG. NO.: EPTISAJTFRPDRJ8KURP/08</p> <p>REVISION: R-1</p>								
<p>DRAWN BY: SD</p> <p>DESIGNED BY: SCK/MM</p> <p>APPROVED BY: KG</p> <p>SCALE: 1:1000</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV.	DATE	DESCRIPTION							<p>SEPTEMBER 2019</p>
REV.	DATE	DESCRIPTION									

Chiralla

Puneja



LEGEND OF UTILITY / OTHERS

ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

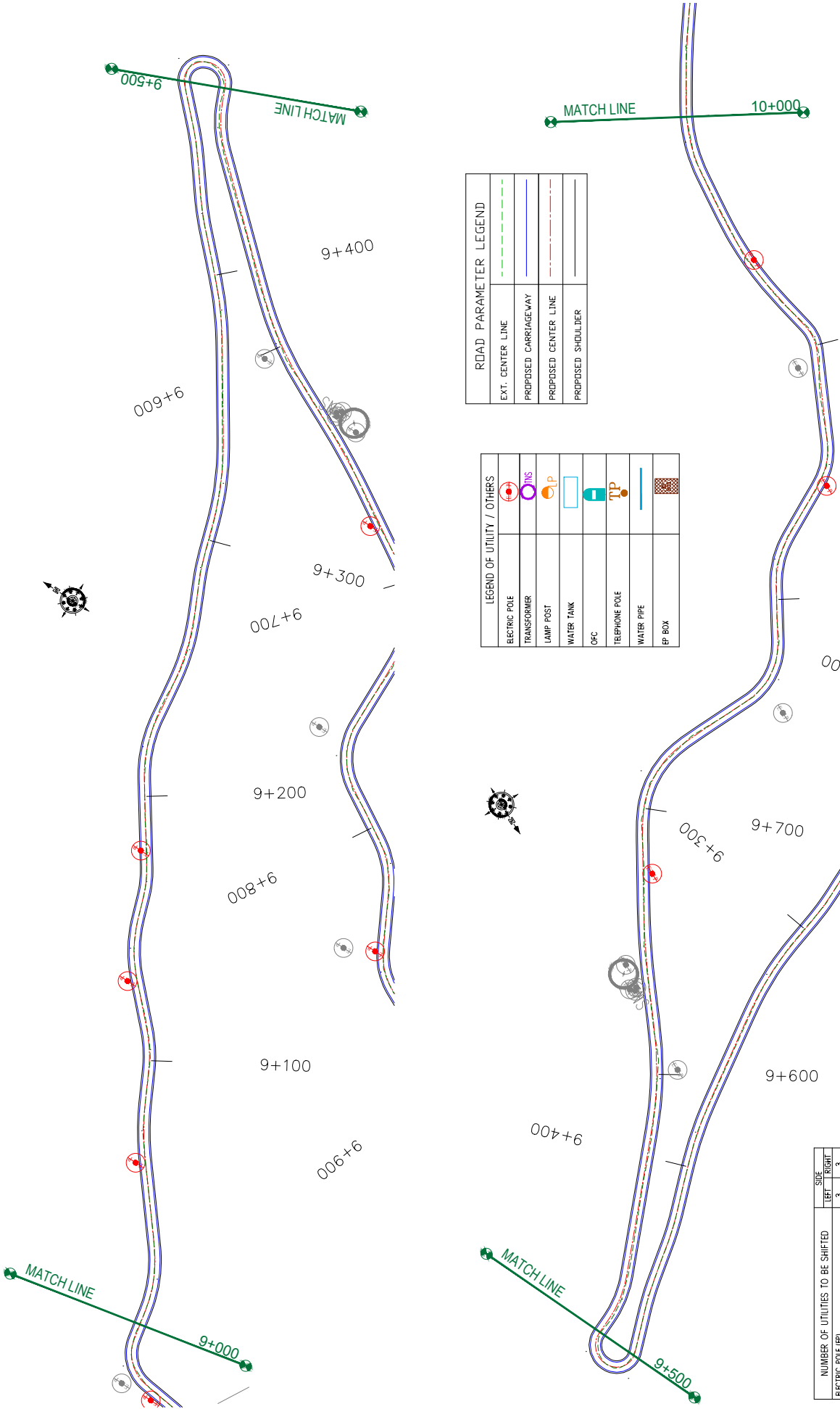
ROAD PARAMETER LEGEND

EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED

	LEFT	RIGHT
ELECTRIC POLE (EP)	5	0
TRANSFORMER (INS)	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 (Chiralla Link 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:		UTILITY RELOCATION PLAN (For Electricity Department) (Ch. 8+000 to Ch. 9+000)	SD	
DRAWN BY:		SCK/MM	KG	1:1000
DESIGNED BY:				
APPROVED BY:				
DRG. NO.:		EPTISAJTRPDRPJ8KURP/09	REVISION:	R-1
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DESCRIPTION				



ROAD PARAMETER LEGEND

EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF UTILITY / OTHERS

ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
DFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED

	LEFT	RIGHT
ELECTRIC POLE (EP)	3	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 (Chiralla Link 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

TITLE: Utility Relocation Plan (For Electricity Department) (Ch. 9+000 to Ch. 10+000)

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

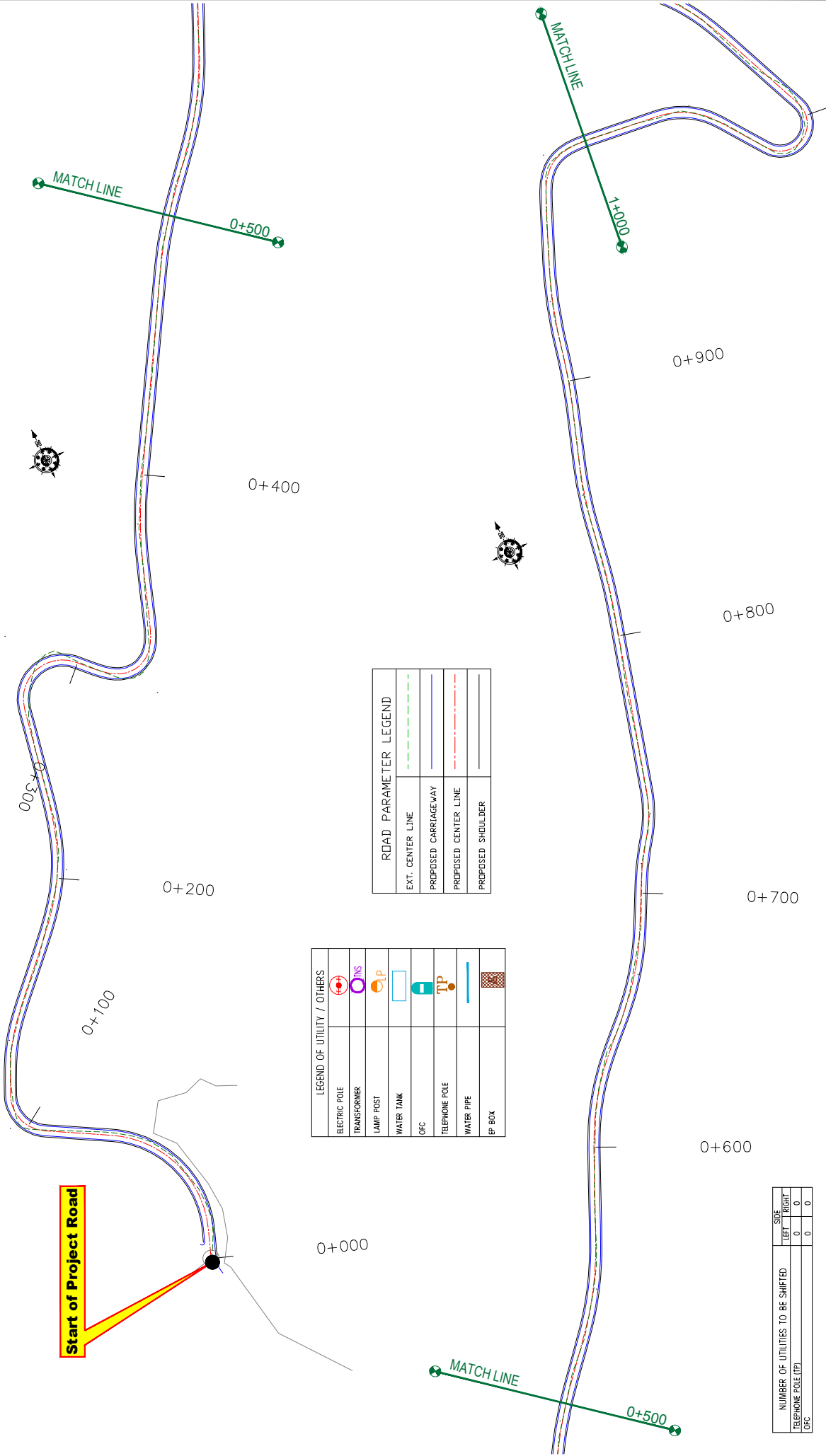
SCALE: 1:1000
REVISION: R-1

DATE: September 2019

UTILITY RELOCATION PLAN FOR MAIN ROAD (TELEPHONE DEPARTMENT)

Chiralla

Puneja



Start of Project Road

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



Jhelum Tarvi 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
(Chiralla Link Road in Doda District)

DESIGN CONSULTANT: **ep-tisa** *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.ep-tisa.com

REV	DATE	DESCRIPTION

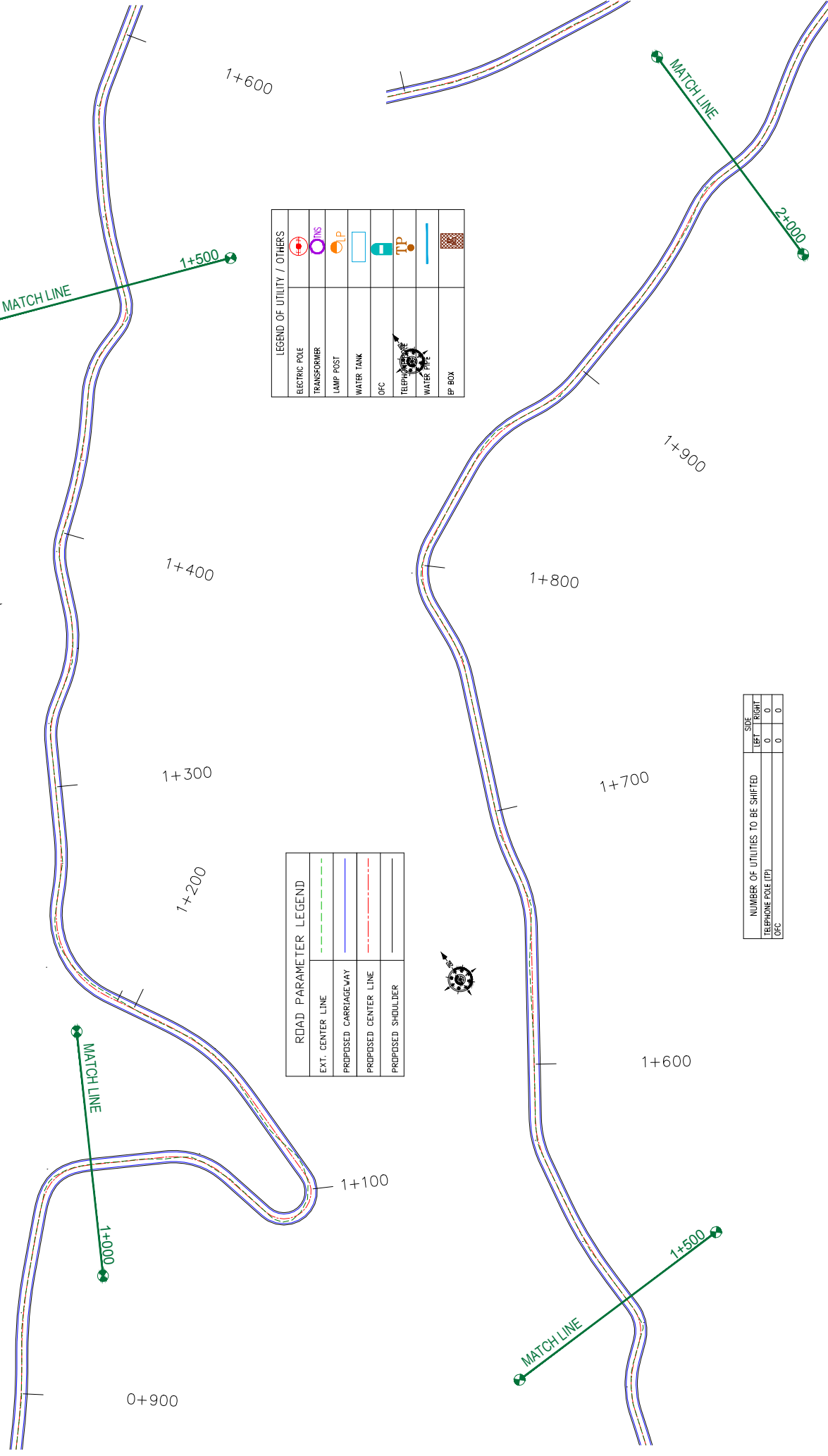
DRAWN BY:	SD
DESIGNED BY:	SCK/MM
APPROVED BY:	KG
SCALE:	1:1000

TITLE:	Utility Relocation Plan (For Telephone Department) (Ch. 0+000 to Ch. 1+000)
DRG. NO.:	EPTISAJTRFRDPRJ8KURP/01
REVISION:	R-1

September 2019

Chiralla

Puneja



LEGEND OF UTILITY / OTHERS

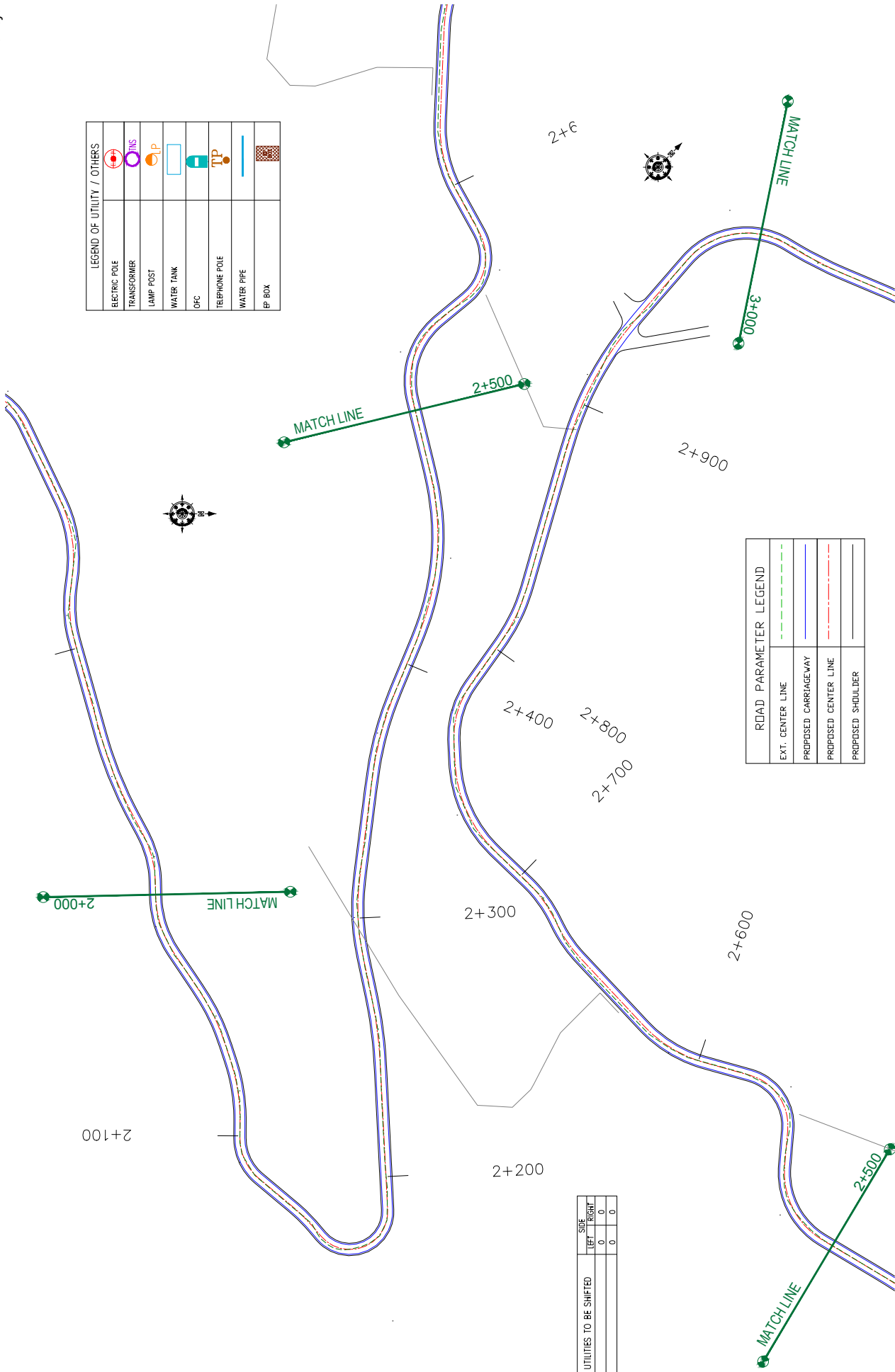
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
IP BOX	

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 Tarai 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 (Chiralla Link 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:		UTILITY RELOCATION PLAN (For Telephone Department) (Ch. 1+000 to Ch. 2+000)	DRAWN BY:	SD
DRG. NO.:		EPTISAJTRPPDRJ&KURP/02	DESIGNED BY:	SCK/MM
REVISION:		R-1	APPROVED BY:	KG
REV.	DATE	DESCRIPTION	SCALE:	1:1000
				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	

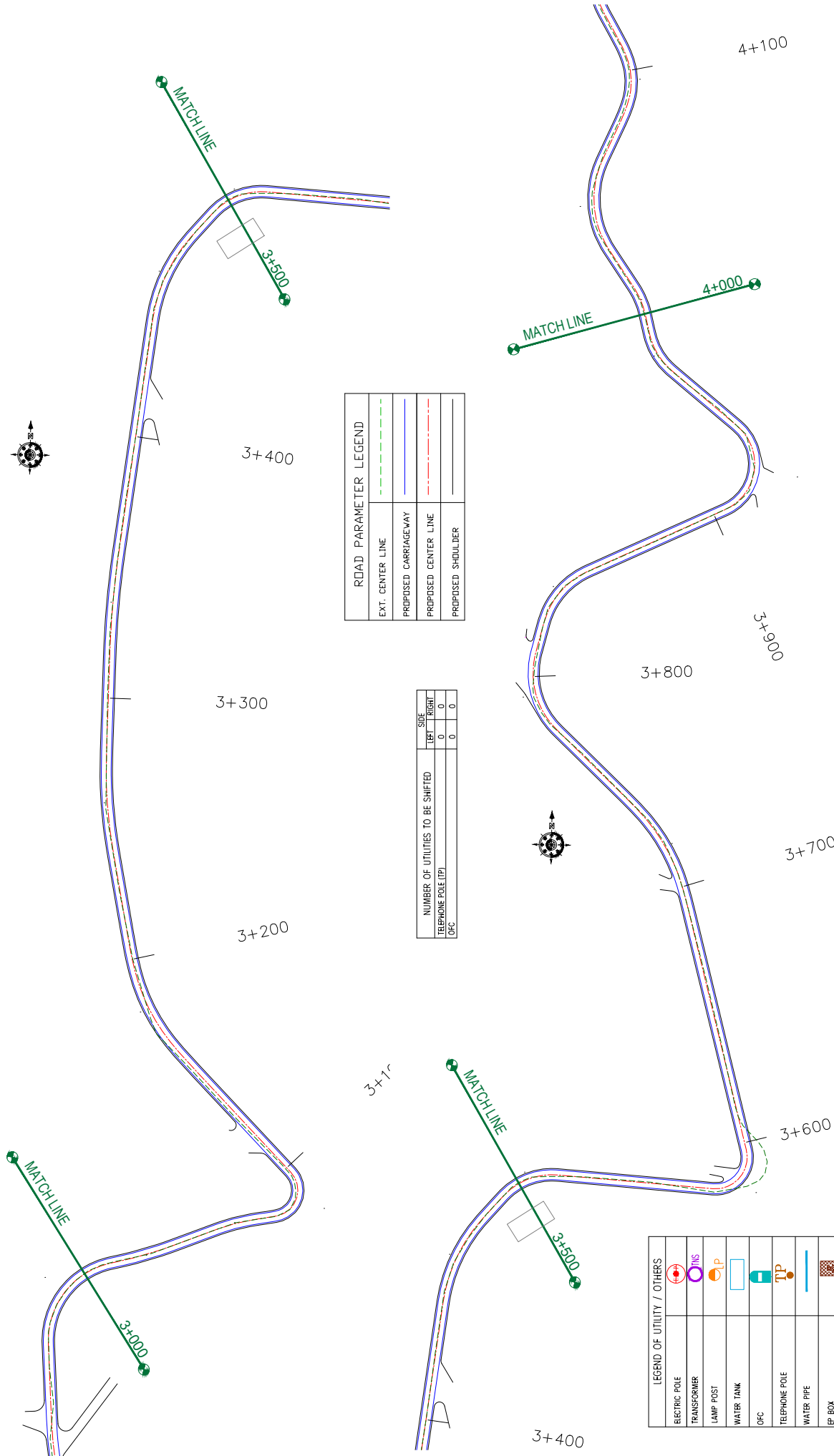
NUMBER OF UTILITIES TO BE SHIFTED

TELEPHONE POLE (TP)	0	0	0
OFC	0	0	0

CLIENT:	 Jhelum Tarai 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 (Chiralla Link Road in Doda District)	
	DESIGN CONSULTANT: ep_tisa <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.ep _t isa.com			TITLE: Utility Relocation Plan (For Telephone Department) (Ch. 2+000 to Ch. 3+000) DRG. NO.: EPTISAJTRPDRPJ8KURP/03 REVISION: R-1	
DRAWN BY: SD		DESIGNED BY: SCK/MM		APPROVED BY: KG	
SCALE: 1:1000		DATE		DESCRIPTION	

Chiralla

Puneja

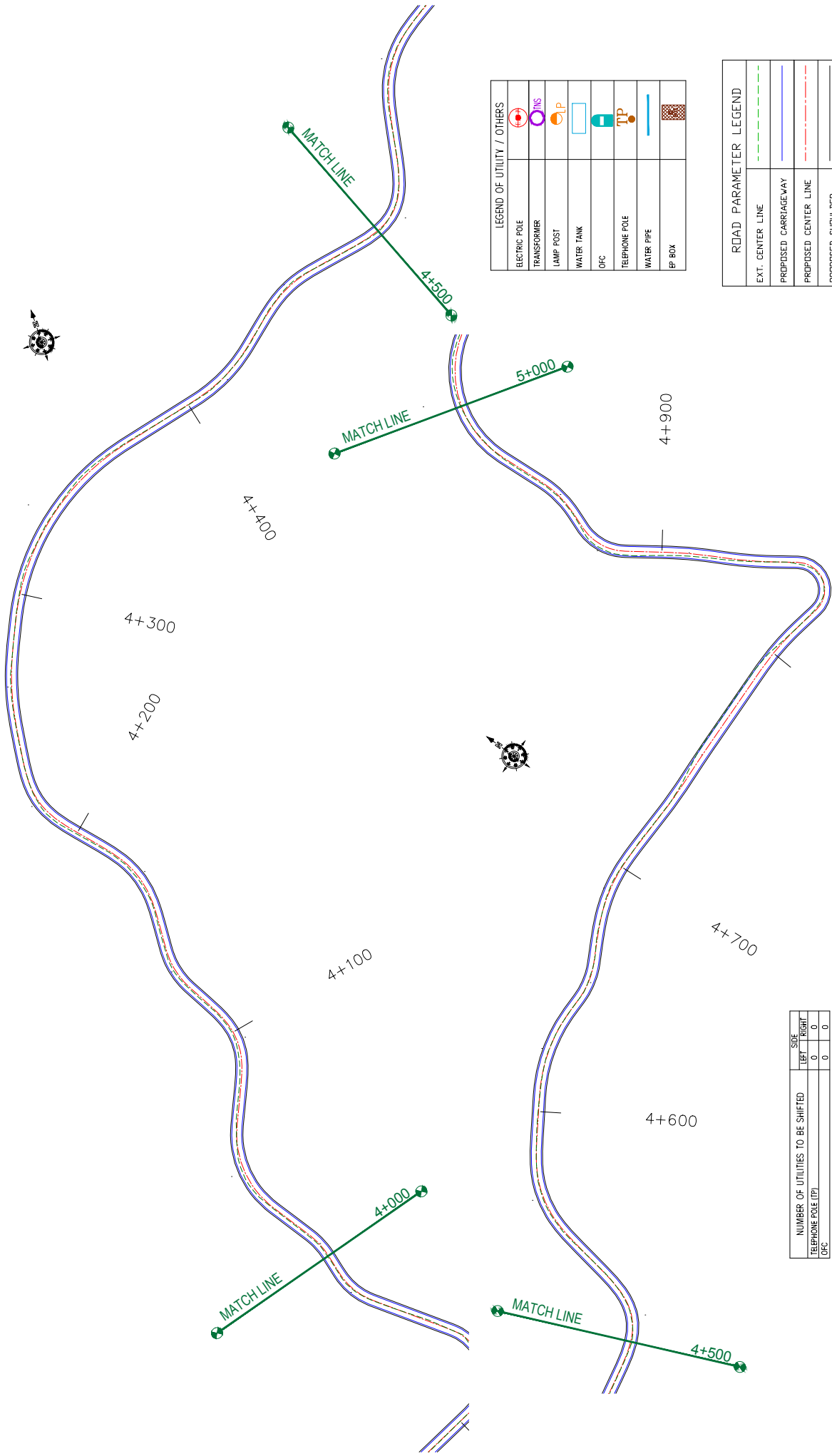


ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

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

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

CLIENT:	 Jhelum Tarai 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 (Chiralla Link 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		
	TITLE: Utility Relocation Plan (For Telephone Department) (Ch. 3+000 to Ch. 4+000) DRG. NO.: EPTISAJTRPRDPRJ8KURP/04 REVISION: R-1		
DRAWN BY:	SD	SCALE:	1:1000
DESIGNED BY:	SCK/MM	DATE:	
APPROVED BY:	KG	DESCRIPTION:	
REV:			



LEGEND OF UTILITY / OTHERS

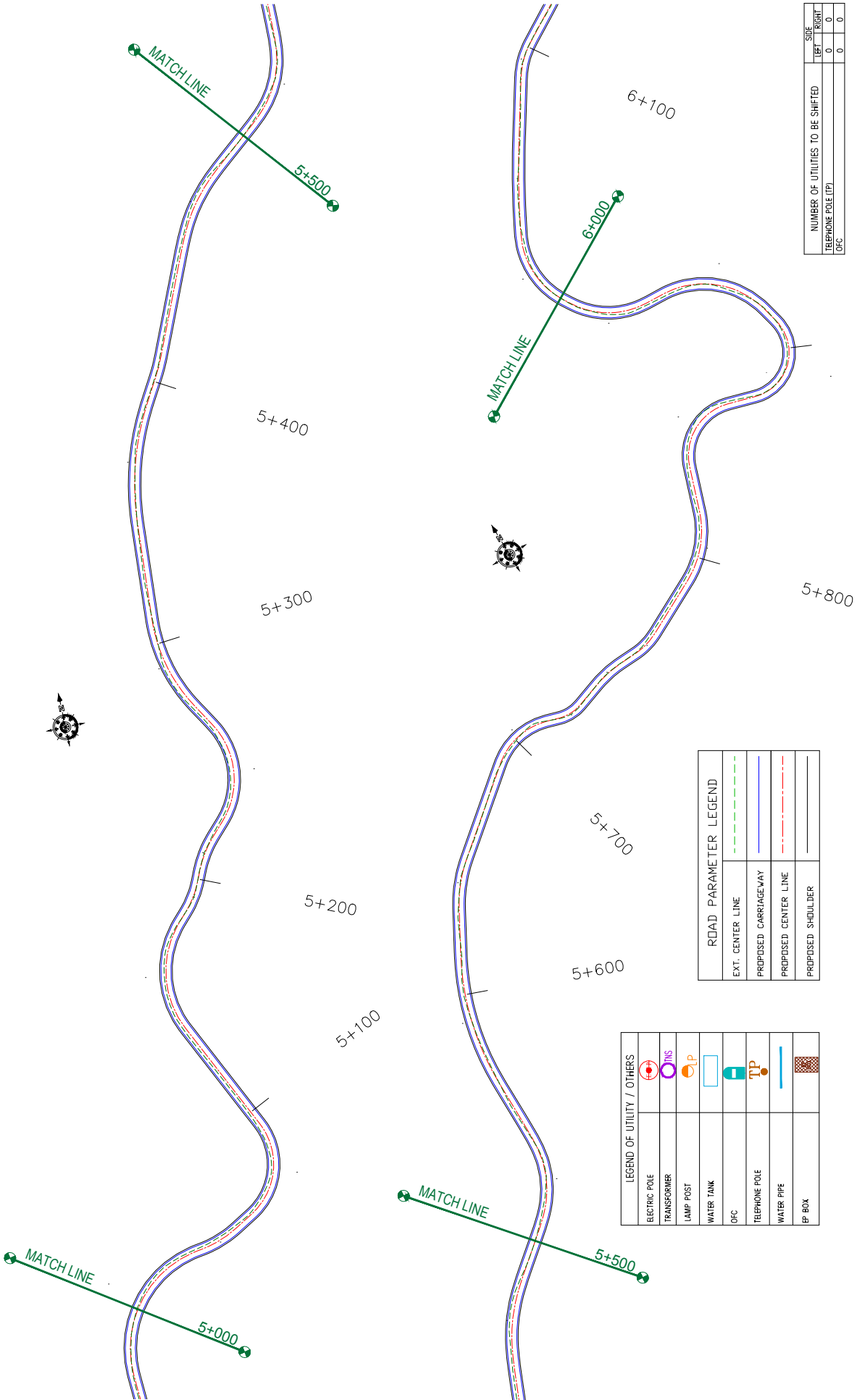
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OPC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND

EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

NUMBER OF UTILITIES TO BE SHIFTED	SIZE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	0
OPC	0	0

<p>CLIENT:</p> <p>Jhelum Tavri 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 (Chiralla Link Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>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>	<p>DRAWN BY: SD</p>	<p>TITLE: Utility Relocation Plan (For Telephone Department) (Ch. 4+000 to Ch. 5+000)</p>
			<p>DESIGNED BY: SCK/MM</p>	<p>DRG. NO.: EPTISAJTRPRDPRJ08KURP/05</p>
			<p>APPROVED BY: KG</p>	<p>REVISION: R-1</p>
			<p>SCALE: 1:1000</p>	<p>DATE</p>
REV	DATE	DESCRIPTION		



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:



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
(Chiralla Link Road in Doda District)

DESIGN CONSULTANT:

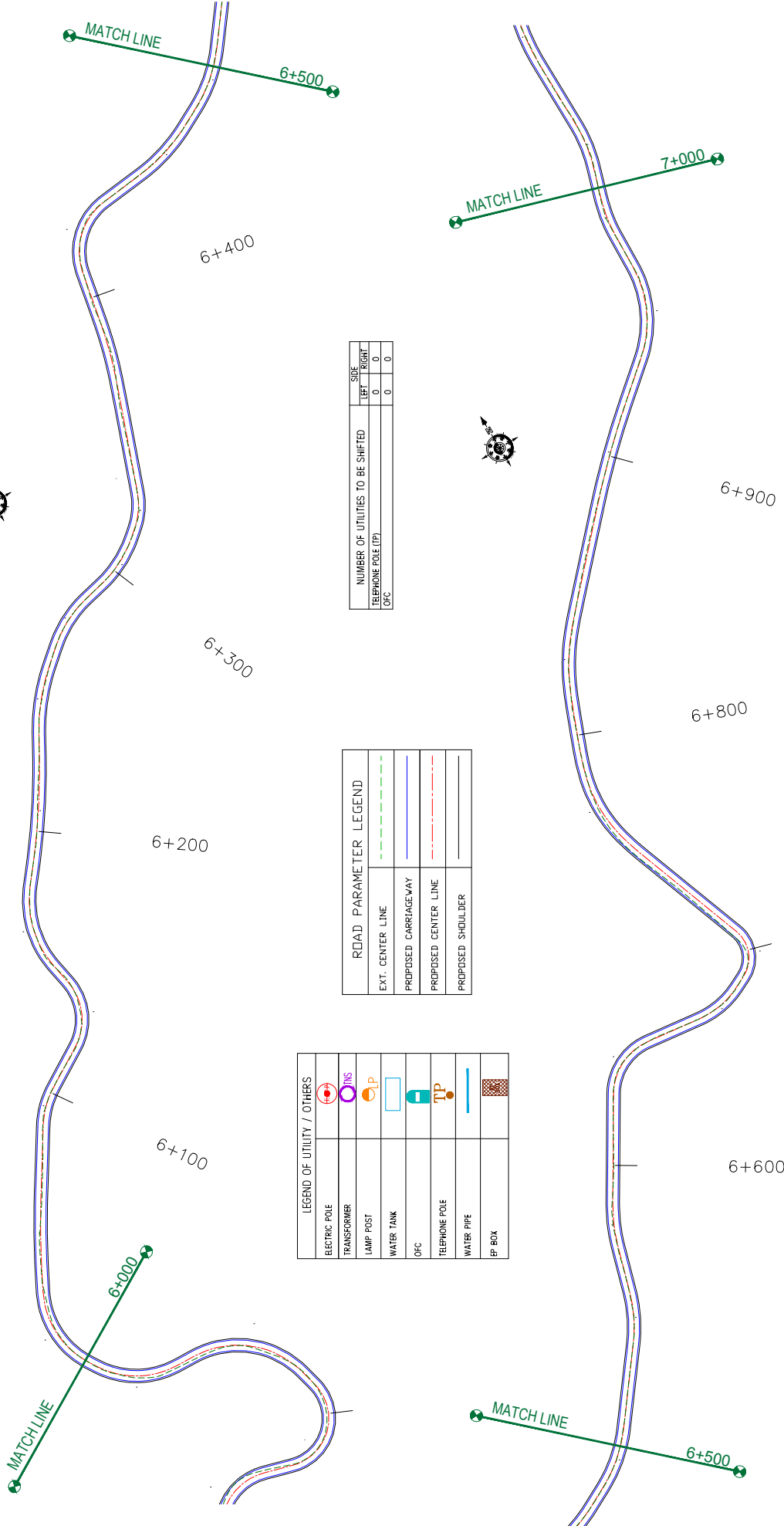


servicios de Ingenieria S.L.
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector V, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.eptisa.com

DRAWN BY:	SD	TITLE:	Utility Relocation Plan (For Telephone Department)
DESIGNED BY:	SCK/MM		(Ch. 5+000 to Ch. 6+000)
APPROVED BY:	KG	DRG. NO.:	EPTISAJTRPPDRJ8KURP/06
SCALE:	1:1000	REVISION:	R-1
REV.	DATE	DESCRIPTION	

← Chiralla

Puneja →



LEGEND OF UTILITY / OTHERS

ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OPC	
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

TELEPHONE POLE (TP)	0	0	0
OPC	0	0	0



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

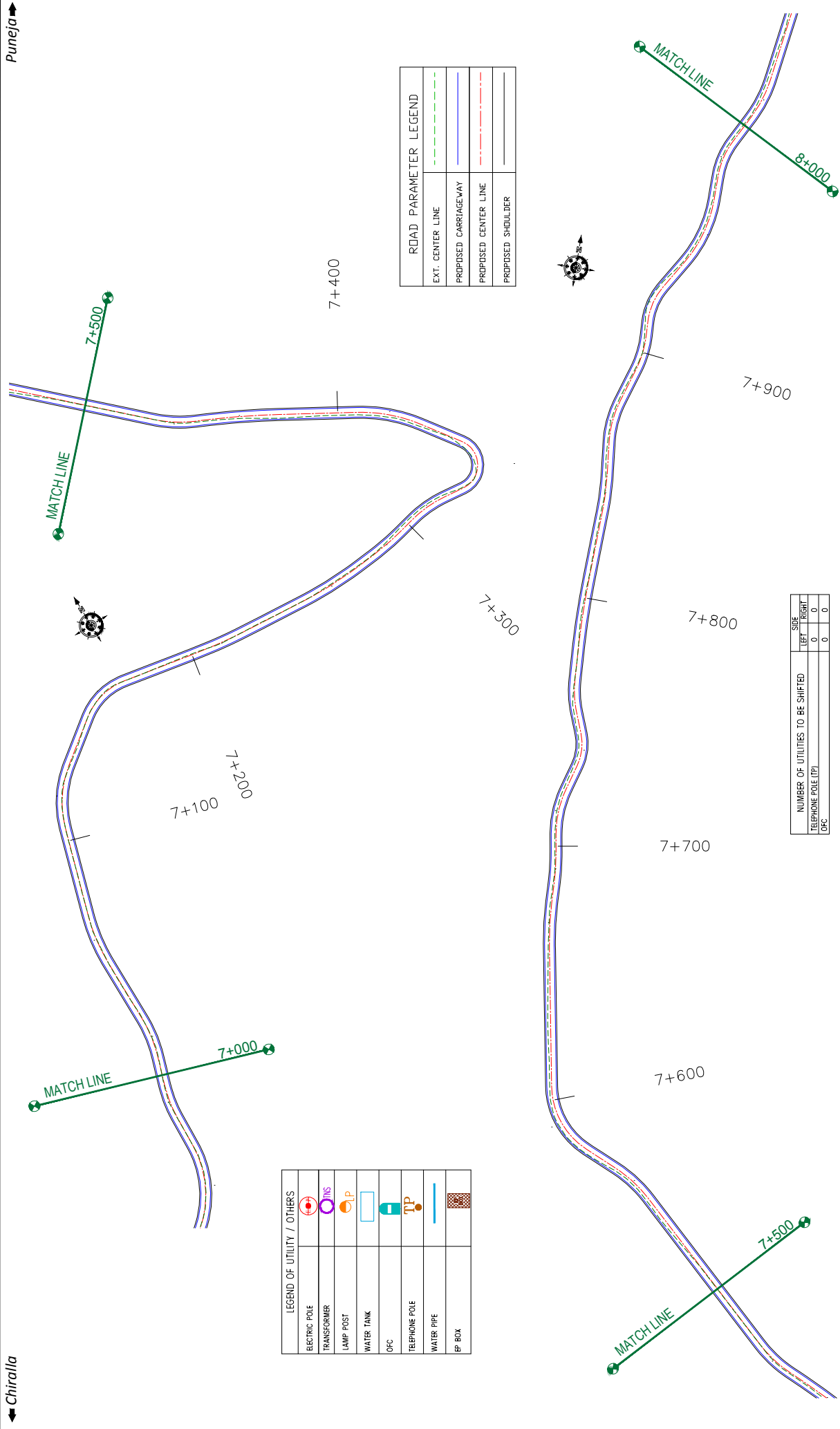
PROJECT:
Consultancy Services for Preparing Detailed Project Report
for the Road works in Jammu and Kashmir
(Chiralla Link Road in Doda District)

DESIGN CONSULTANT:
epitisa *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.epitisa.com

CLIENT:	UTILITY RELOCATION PLAN (For Telephone Department) (Ch. 6+000 to Ch. 7+000)
DRAWN BY:	SD
DESIGNED BY:	SCK/MM
APPROVED BY:	KG
SCALE:	1:1000
REV:	DATE
DESCRIPTION:	
REVISION:	R-1
DRG. NO.:	EPTISAJTRFRPDRJUKURP/07
DATE:	September 2019

Chiralla

Puneja



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

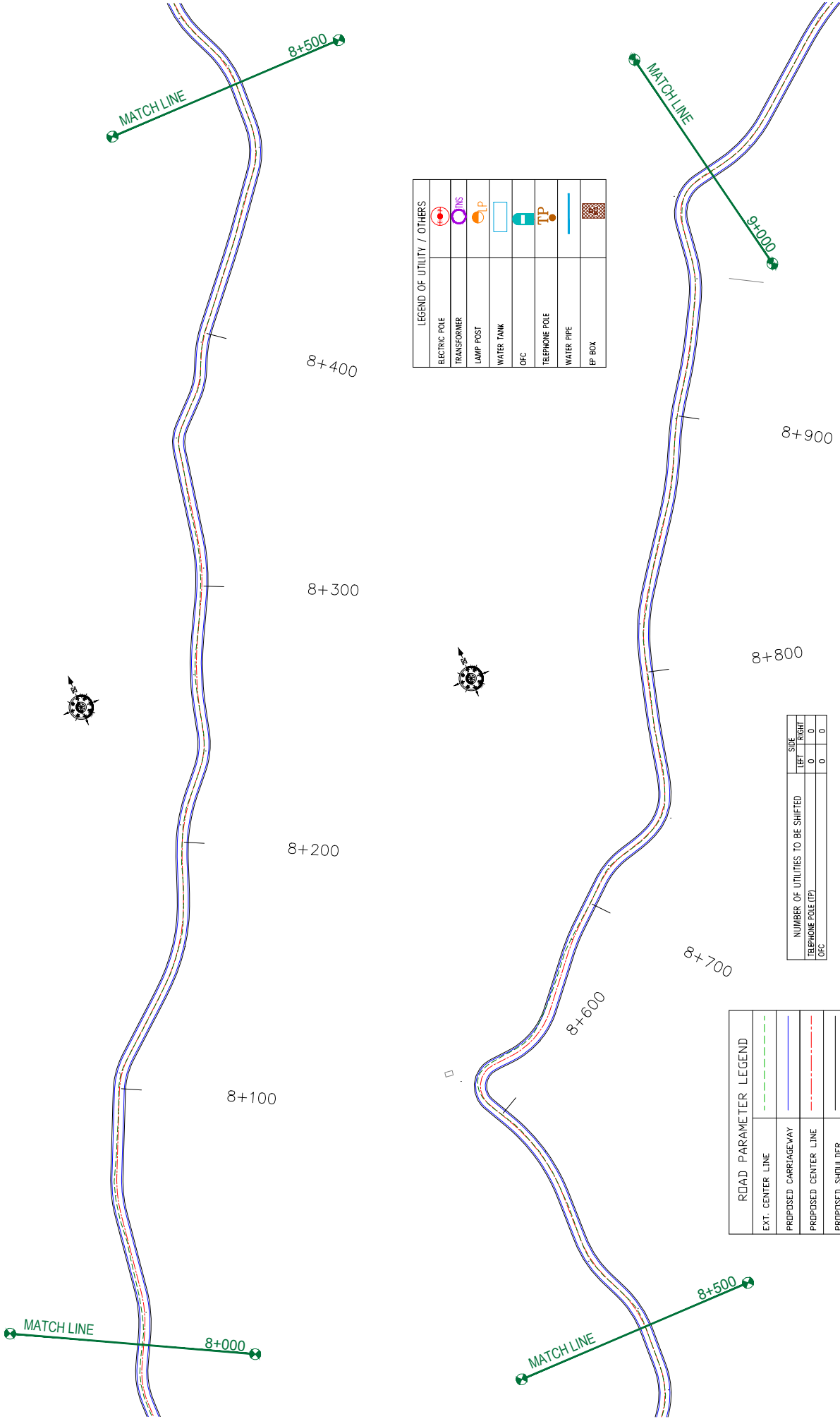
TELEPHONE POLE (TP)	SIDE	
	LEFT	RIGHT
0PC	0	0

<p>CLIENT:</p> <p>Jhelum Talavi 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 (Chiralla Link Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>eptisa <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.eptisa.com</p>	
			<p>TITLE: Utility Relocation Plan (For Telephone Department) (Ch. 7+000 to Ch. 8+000)</p>
<p>DRAWN BY: SD</p>	<p>DESIGNED BY: SCK/MM</p>	<p>APPROVED BY: KG</p>	<p>SCALE: 1:1000</p>
<p>REV.</p>	<p>DATE</p>	<p>DESCRIPTION</p>	<p>REVISION: R-1</p>

September 2019

Chiralla

Puneja



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

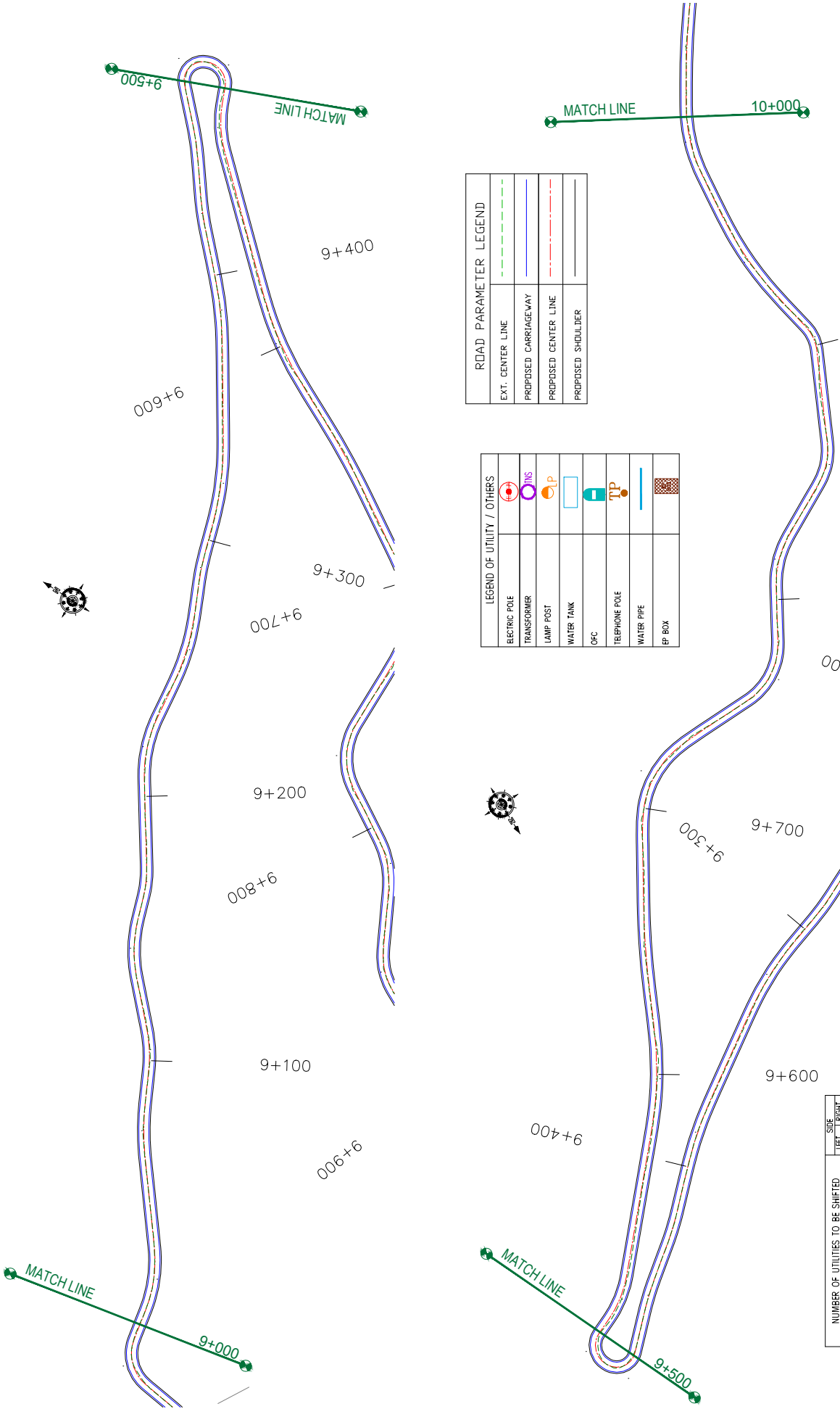
DESIGN CONSULTANT:
epi *servicios de Ingenieria S.L.*
 Unit 1203, 12th Floor, Tower 1, PS Srijan
 Corporate Park, Plot No. 2, Block EP & GP,
 Sector V, Salt Lake Kolkata - 700091,
 West Bengal
 Ph: 033-40347200
 www.epiisa.com

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

CLIENT:

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

DRAWN BY :	SD	TITLE :	Utility Relocation Plan (For Telephone Department) (Ch. 8+000 to Ch. 9+000)
DESIGNED BY :	SCK/MM	DRG. NO. :	EPTISAJTFRRPDRJ&KURP/09
APPROVED BY :	KG	REVISION :	R-1
SCALE :	1:1000	DATE :	September 2019
REV.		DESCRIPTION	



ROAD PARAMETER LEGEND

EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

LEGEND OF UTILITY / OTHERS

ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
DFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

NUMBER OF UTILITIES TO BE SHIFTED	SITE	
	LEFT	RIGHT
TELEPHONE POLE (TP)	0	0
DFC	0	0

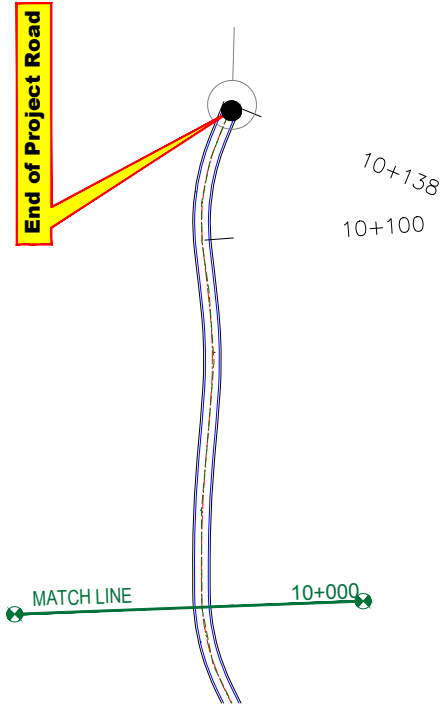
CLIENT:

 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
 (Chiralla Link Road in Doda District)

DESIGN CONSULTANT:
epitisa *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.epitisa.com

DRAWN BY:	SD	TITLE:	Utility Relocation Plan (For Telephone Department) (Ch. 9+000 to Ch. 10+000)
DESIGNED BY:	SCK/MM	DRG. NO.:	EPTISAJTRPRDPRJ8KURP/10
APPROVED BY:	KG	REVISION:	R-1
SCALE:	1:1000	DATE:	September 2019
REV:		DESCRIPTION:	



LEGEND OF UTILITY / OTHERS	
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OPC	
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
OPC	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
(Chiralla Link Road in Doda District)

DESIGN CONSULTANT:

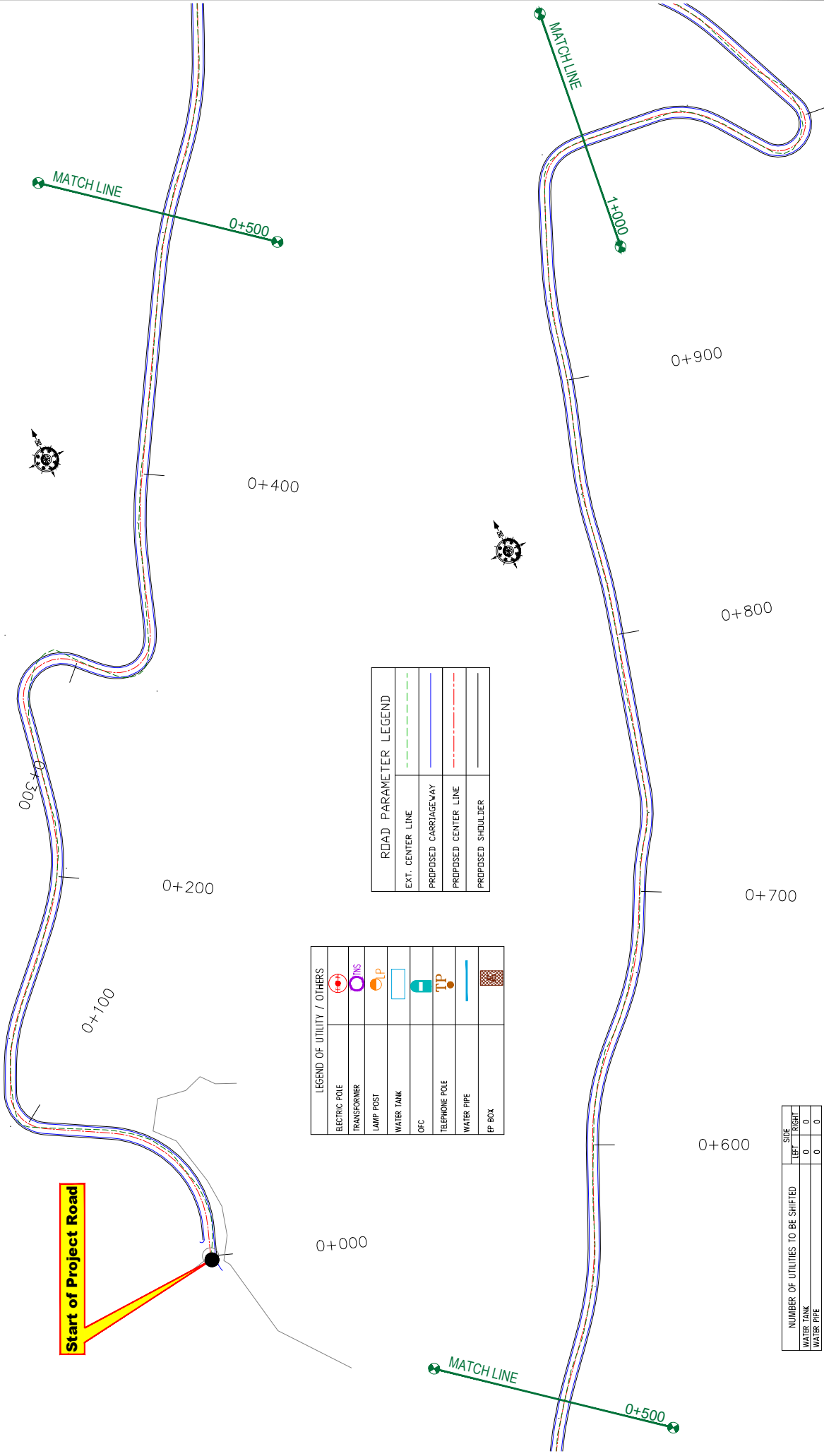
ep^tisa **servicios de Ingenieria S.L.**
Unit 1203, 12th Floor, Tower 1, PS Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector V, Salt Lake Kolkata - 700091, West Bengal
Ph: 033-40347200
www.ep^tisa.com

REV	DATE	DESCRIPTION	SCALE :	1:1000
			DRAWN BY :	SD
			DESIGNED BY :	SCK/MM
			APPROVED BY :	KG
			TITLE :	Utility Relocation Plan (For Telephone Department) (Ch. 10+000 to Ch. 10+138)
			DRG. NO. :	EPTISAJTRPRDPRJ8KURP/11
			REVISION :	R-1
				September 2019

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

Chiralla

Puneja



Start of Project Road

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



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
(Chiralla Link Road in Doda District)

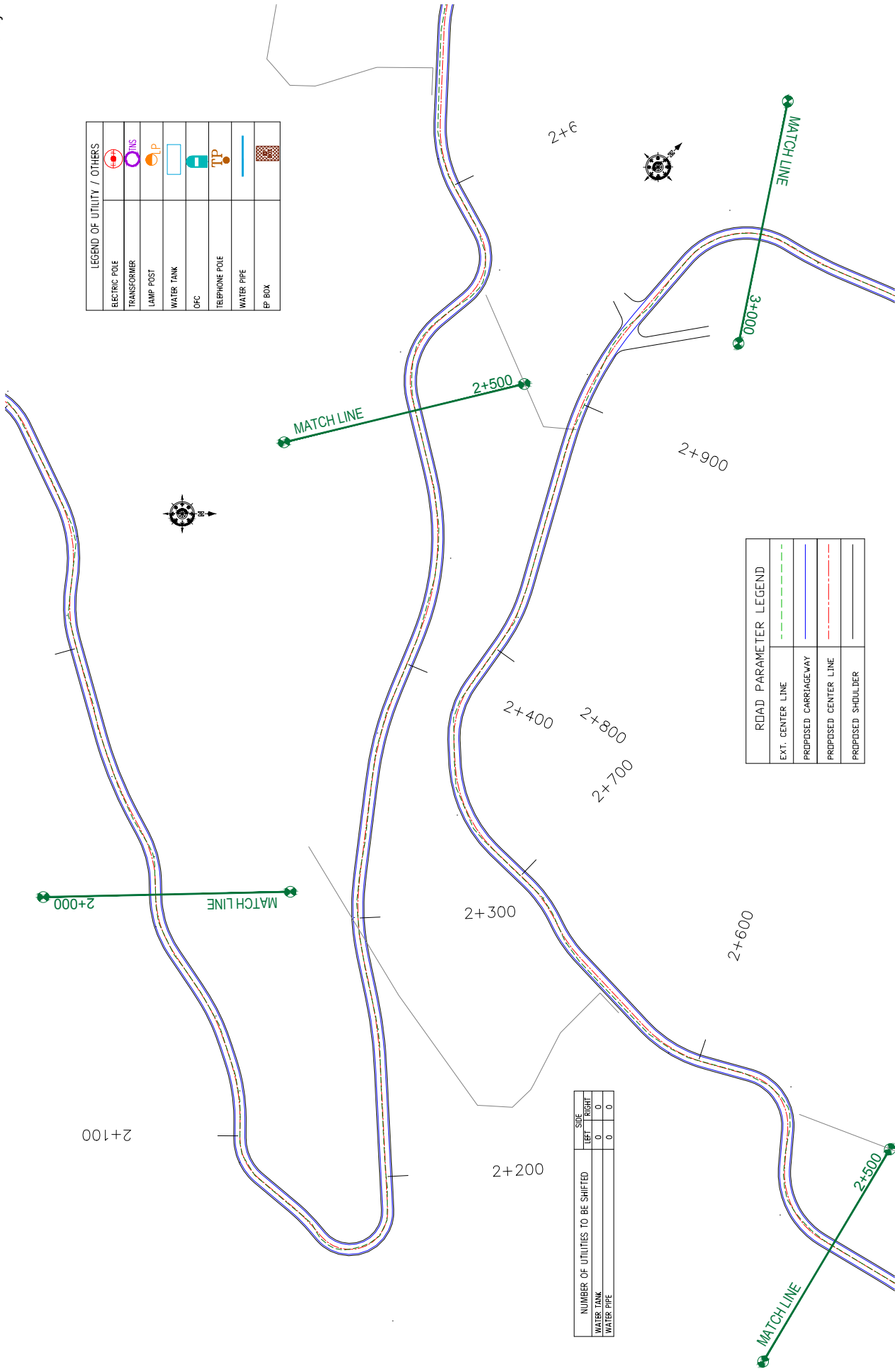
DESIGN CONSULTANT:
ep_tisa *servicios de ingenieria S.L.*
Unit 1203, 12th Floor, Tower 1, PS Srijan
Corporate Park, Plot No. 2, Block EP & GP,
Sector V, Salt Lake Kolkata - 700091,
West Bengal
Ph: 033-40347200
www.ep_tisa.com

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. :	EPTISAJTRFRDPRJ8KURP/01
REVISION :	R-1

September 2019



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



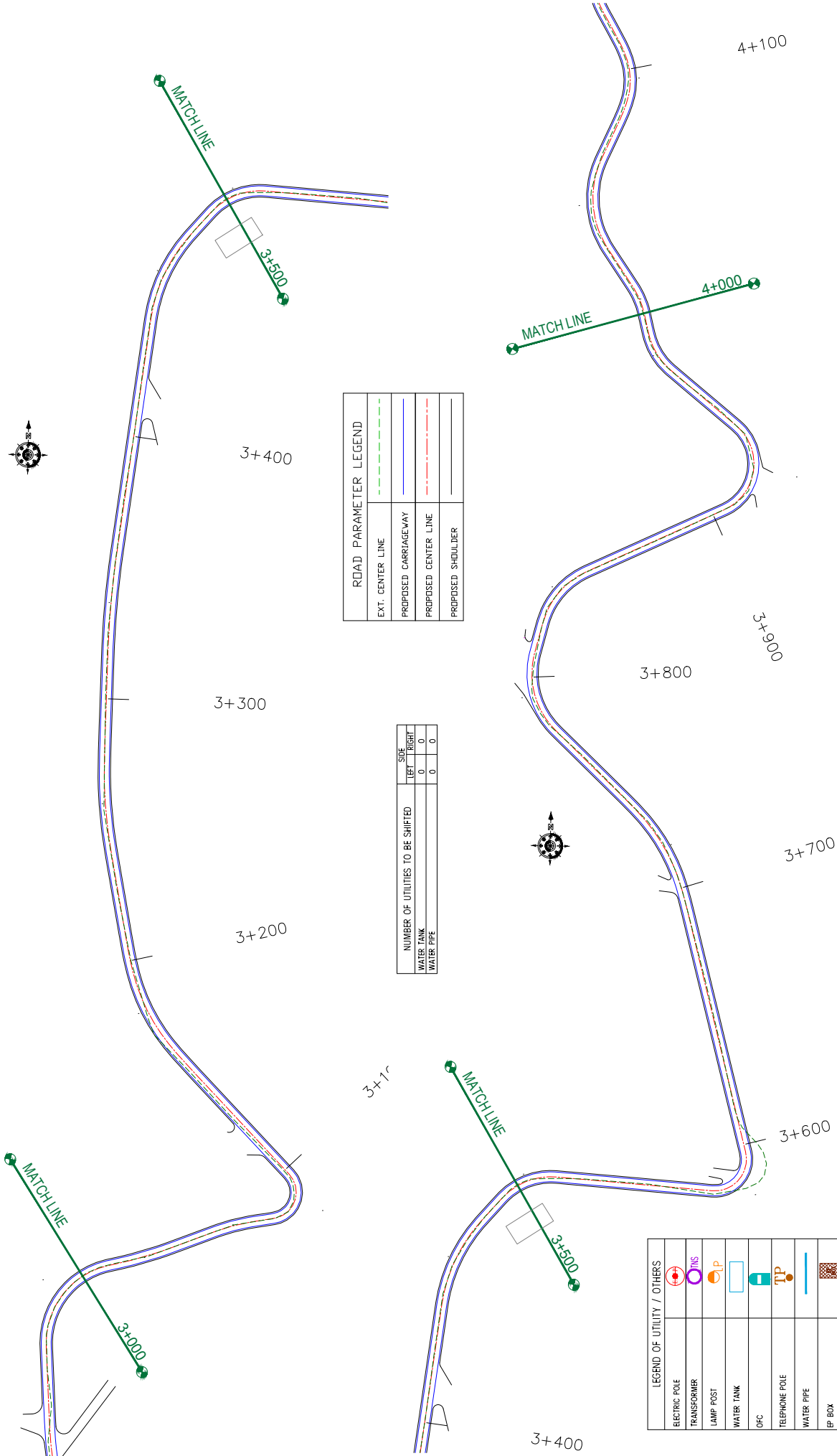
NUMBER OF UTILITIES TO BE SHIFTED	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

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

CLIENT: Jhelum 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 (Chiralla Link 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		TITLE: Utility Relocation Plan (For Water Department) (Ch. 2+000 to Ch. 3+000)	
		DRAWN BY: SD	DESIGNED BY: SCK/MM	APPROVED BY: KG	DRG. NO.: EPTISAJTFRRPDRJUKURP/03
		REV.	DATE	DESCRIPTION	REVISION: R-1
		SCALE: 1:1000	SEPTEMBER 2019		

Chiralla

Puneja

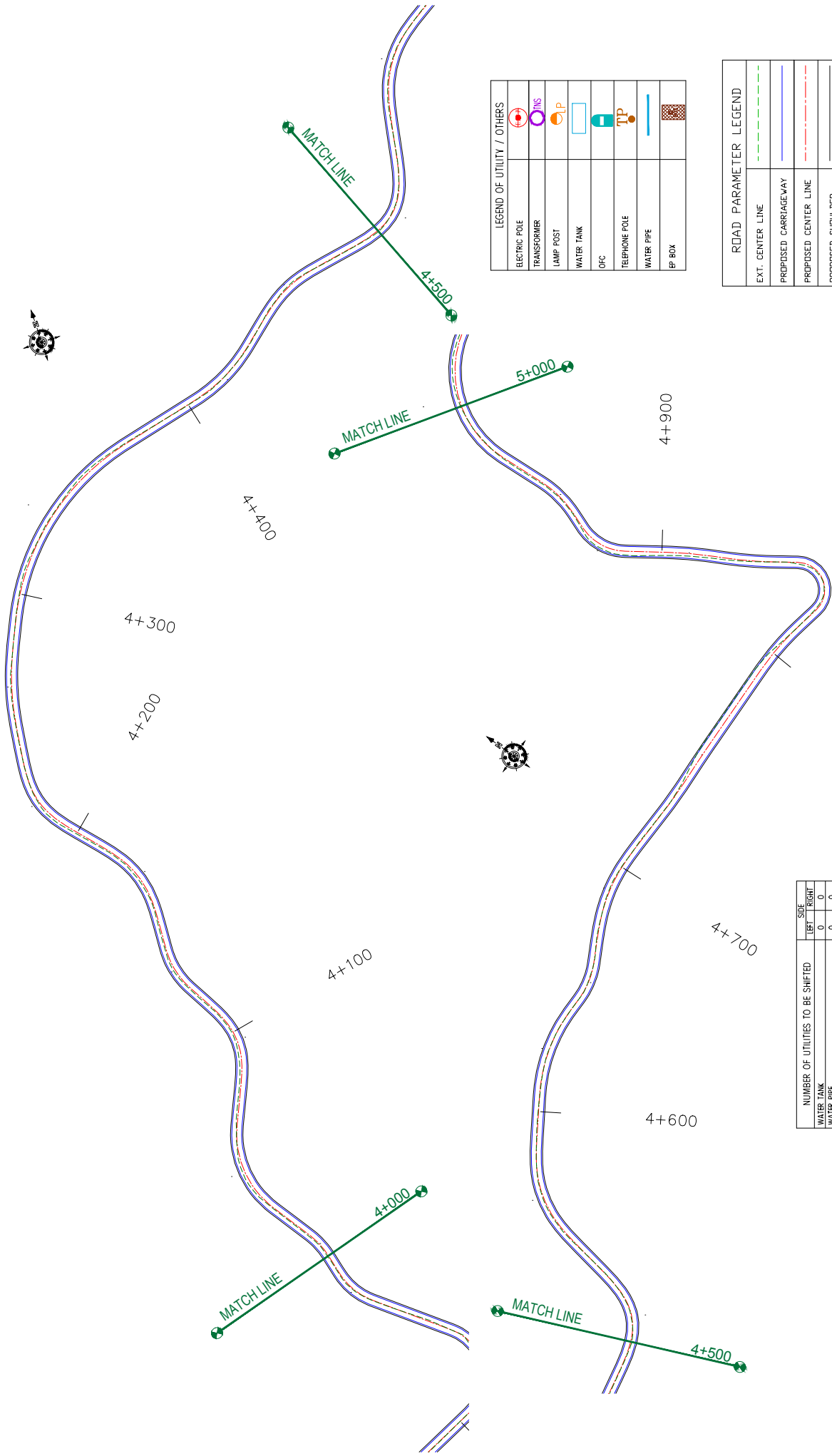


ROAD PARAMETER LEGEND	
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	—
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

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

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

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 (Chiralla Link 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 Water Department) (Ch. 3+000 to Ch. 4+000)
DESIGNED BY:	SCK/MM	DRG. NO.: EPTISAJTRFRPDRJ8KURP/04
APPROVED BY:	KG	REVISION: R-1
REV.	DATE	DESCRIPTION
SCALE:	1:1000	SEPTEMBER 2019



LEGEND OF UTILITY / OTHERS

ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OPC	
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 Tavri 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
(Chiralla Link Road in Doda District)

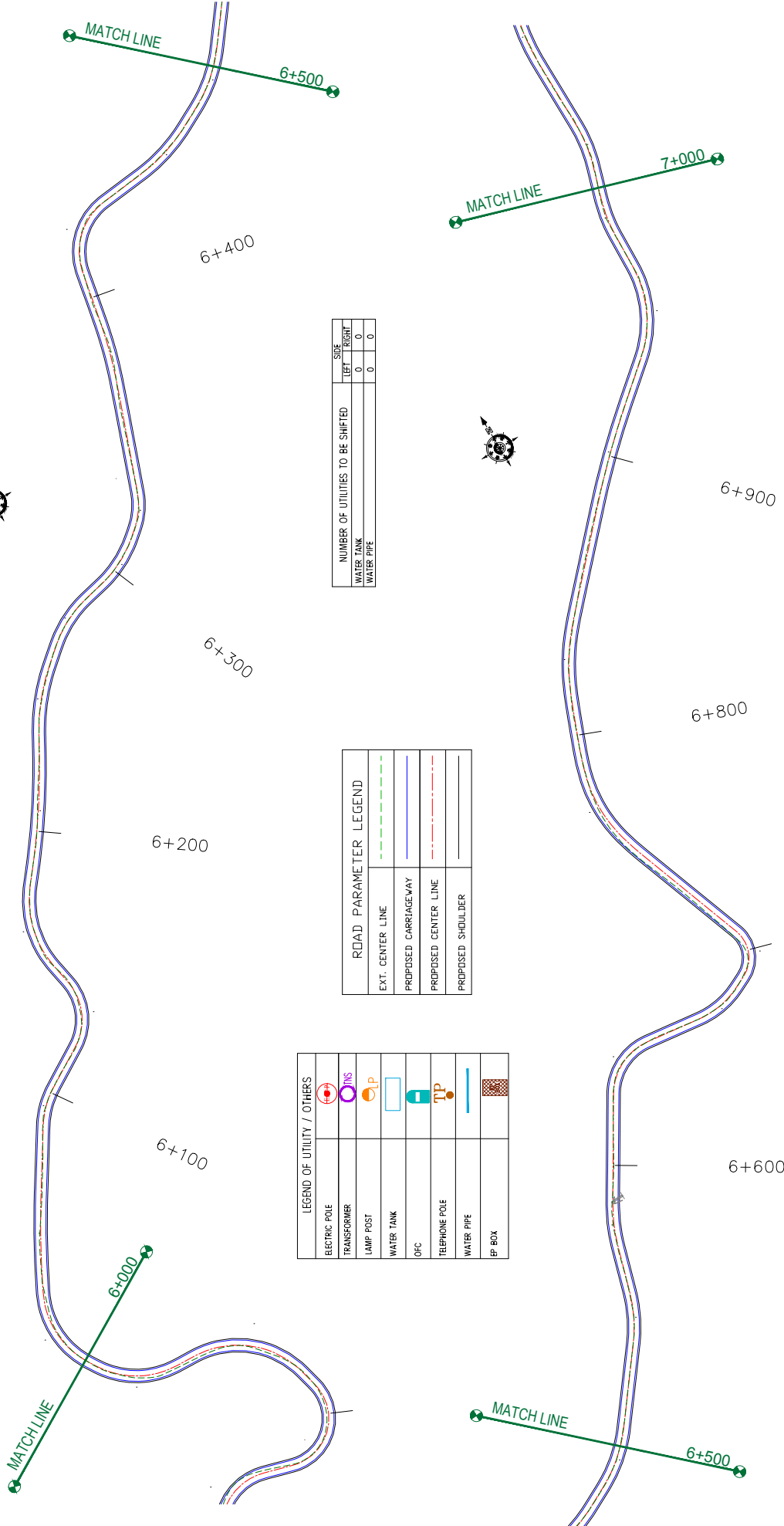
DESIGN CONSULTANT: **servicios de Ingenieria S.L.**
Unit 1203, 12th Floor, Tower 1, PS Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector V, Salt Lake Kolkata - 700091, West Bengal
Ph: 033-40347200
www.eptisa.com

DRAWN BY:	SD	TITLE:	Utility Relocation Plan (For Water Department) (Ch. 4+000 to Ch. 5+000)
DESIGNED BY:	SCK/MM	DRG. NO.:	EPTISAJTRPRDPRJUKURP/05
APPROVED BY:	KG	SCALE:	1:1000
REV.	DATE	DESCRIPTION	REVISION: R-1

September 2019

Chiralla

Puneja



LEGEND OF UTILITY / OTHERS

ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OPC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND

EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

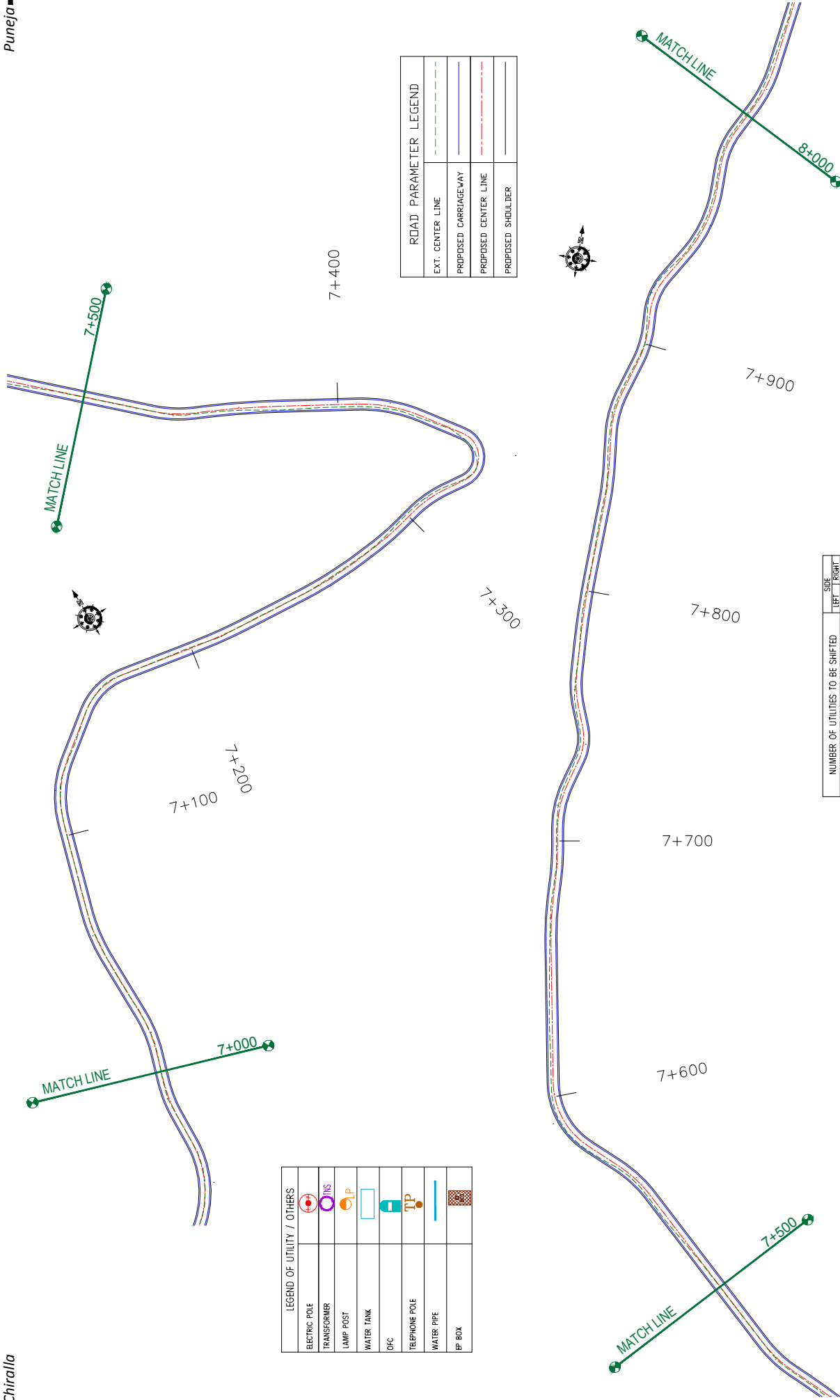
NUMBER OF UTILITIES TO BE SHIFTED

	SIDE	
	LEFT	RIGHT
WATER TANK	0	0
WATER PIPE	0	0

CLIENT:	 Jhelum 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 (Chiralla Link 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	
REV.	DATE	DESCRIPTION
DRAWN BY:	SD	TITLE: Utility Relocation Plan (For Water Department) (Ch. 6+000 to Ch. 7+000)
DESIGNED BY:	SCK/MM	DRG. NO.: EPTISAJTRPRDPRJ8KURP/07
APPROVED BY:	KG	REVISION: R-1
SCALE:	1:1000	SEPTEMBER 2019

Chiralla

Puneja



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

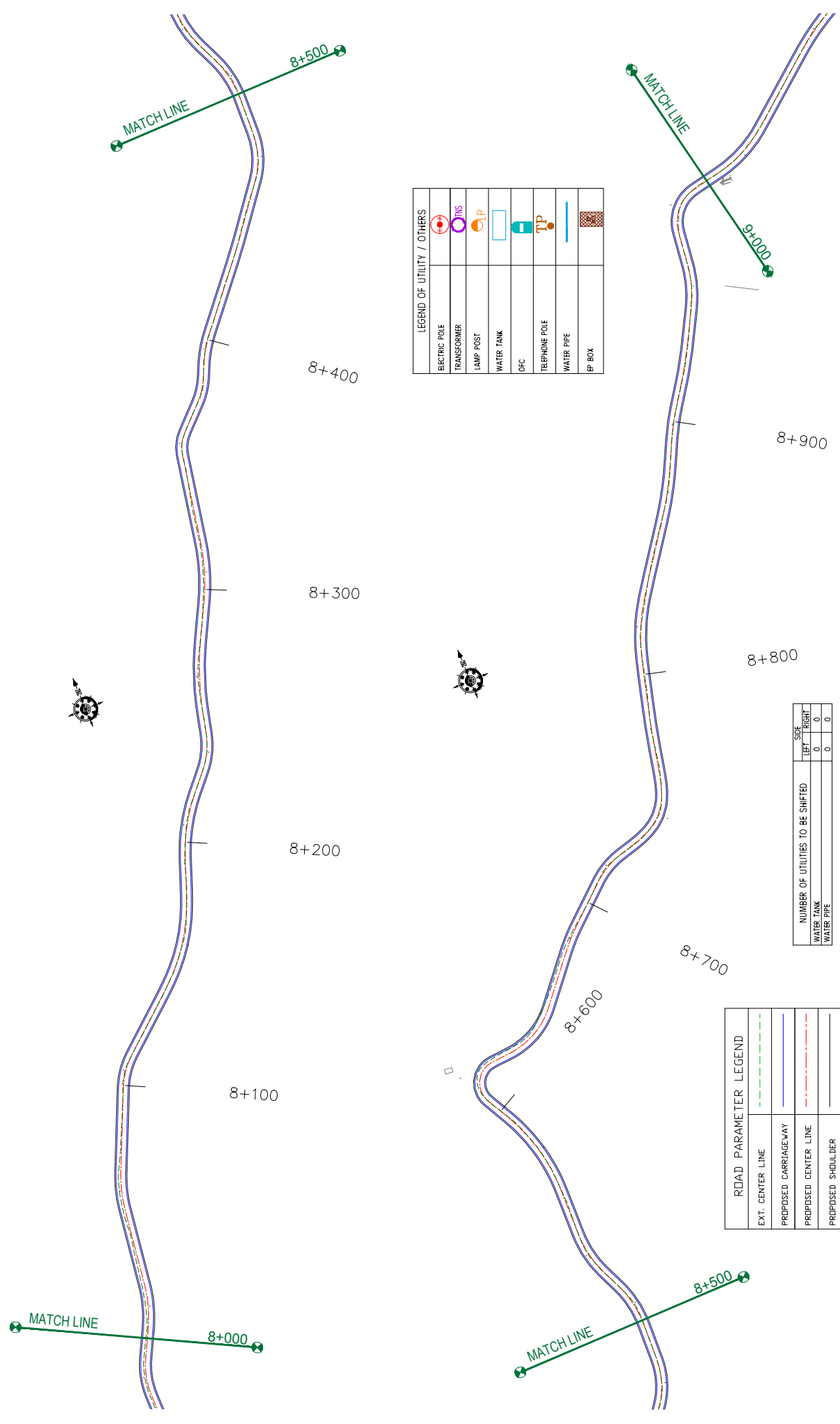
ROAD PARAMETER LEGEND	
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

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

<p>CLIENT:</p>  <p>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 (Chiralla Link Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>ep_tisa <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.ep_tisa.com</p>
<p>CUSTOMER:</p> <p>Utility Relocation Plan (For Water Department) (Ch. 7+000 to Ch. 8+000)</p>	<p>DRAWN BY: SD</p> <p>DESIGNED BY: SCK/MM</p> <p>APPROVED BY: KG</p> <p>SCALE: 1:1000</p>	<p>DRG. NO.: EPTISAJTRPRDPRJ8KURP/08</p> <p>REVISION: R-1</p> <p style="text-align: right;">September 2019</p>

Chiralla

Puneja



LEGEND OF UTILITY / OTHERS

ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

ROAD PARAMETER LEGEND

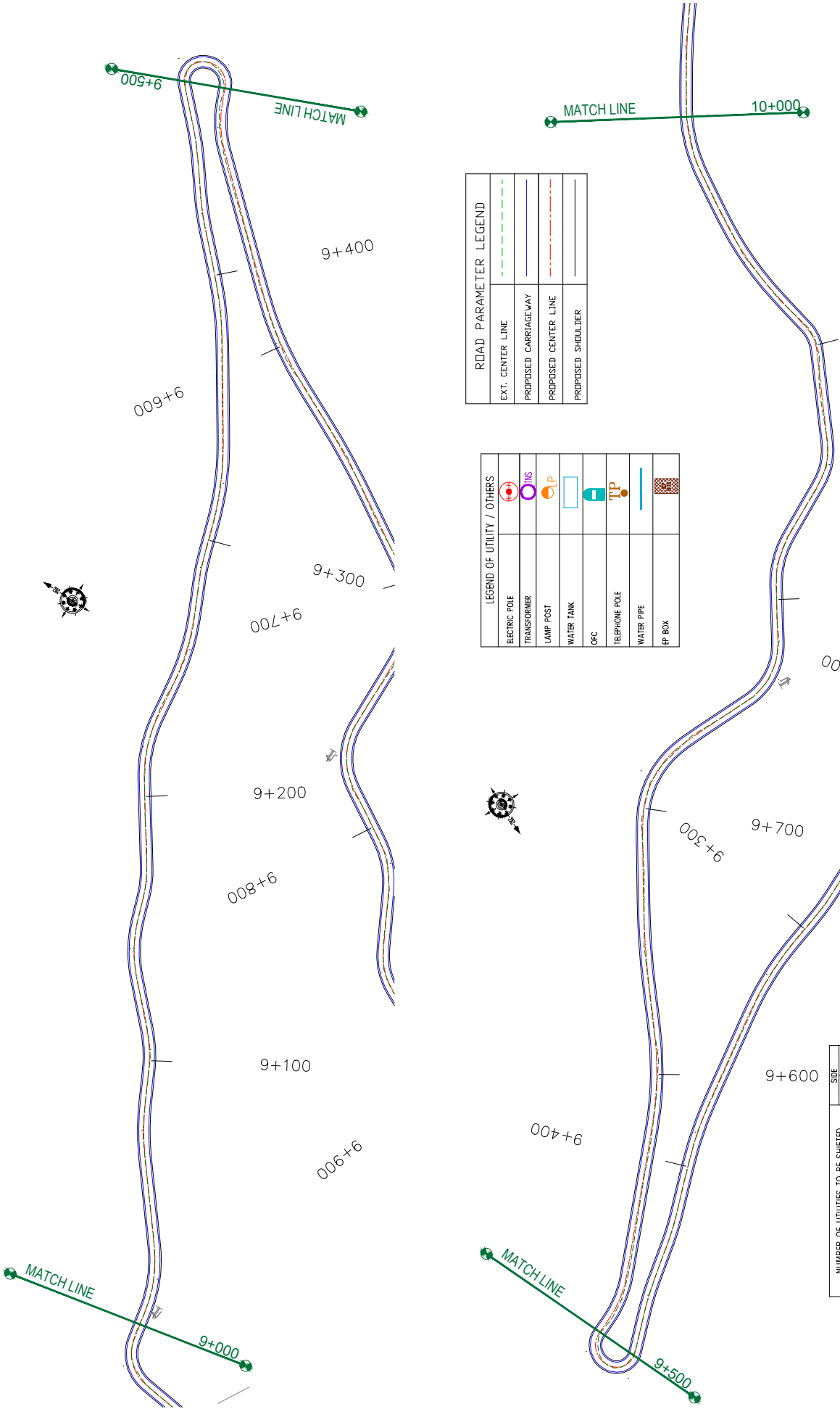
EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

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

<p>CLIENT:</p>  <p>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 (Chiralla Link Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p> <p>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</p>
<p>TITLE: Utility Relocation Plan (For Water Department) (Ch. 8+000 to Ch. 9+000)</p>		<p>SD</p>
<p>DRAWN BY: SCK/MM</p>		<p>SCALE: 1:1000</p>
<p>DESIGNED BY: SCK/MM</p>		<p>REVISION: R-1</p>
<p>APPROVED BY: KG</p>		<p>DATE:</p>
<p>DRG. NO.: EPTISAJTFRPDRJ8KURP/09</p>		<p>DESCRIPTION:</p>
<p>REV:</p>		<p>DATE:</p>
<p>SEPTEMBER 2019</p>		<p>DATE:</p>

Chiralla

Puneja



LEGEND OF UTILITY / OTHERS

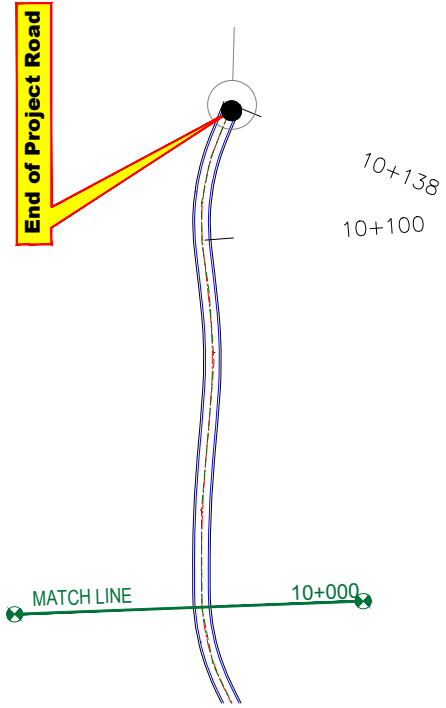
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
DFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

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

<p>CLIENT:</p>  <p>Jhelum Tarai 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 (Chiralla Link Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p>  <p>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>	<p>SCALE: 1:1000</p>	<p>REVISION: R-1</p>
			<p>DATE</p>	<p>DESCRIPTION</p>
<p>DESIGNED BY: SCK/MM</p>	<p>APPROVED BY: KG</p>	<p>DRG. NO.: EPTISAJTRFRPDRJ8KURP/10</p>	<p>SD</p>	<p>SEPTEMBER 2019</p>



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
WATER TANK	0	0
WATER PIPE	0	0

CLIENT:



Jhelum Tavli 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
(Chiralla Link 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

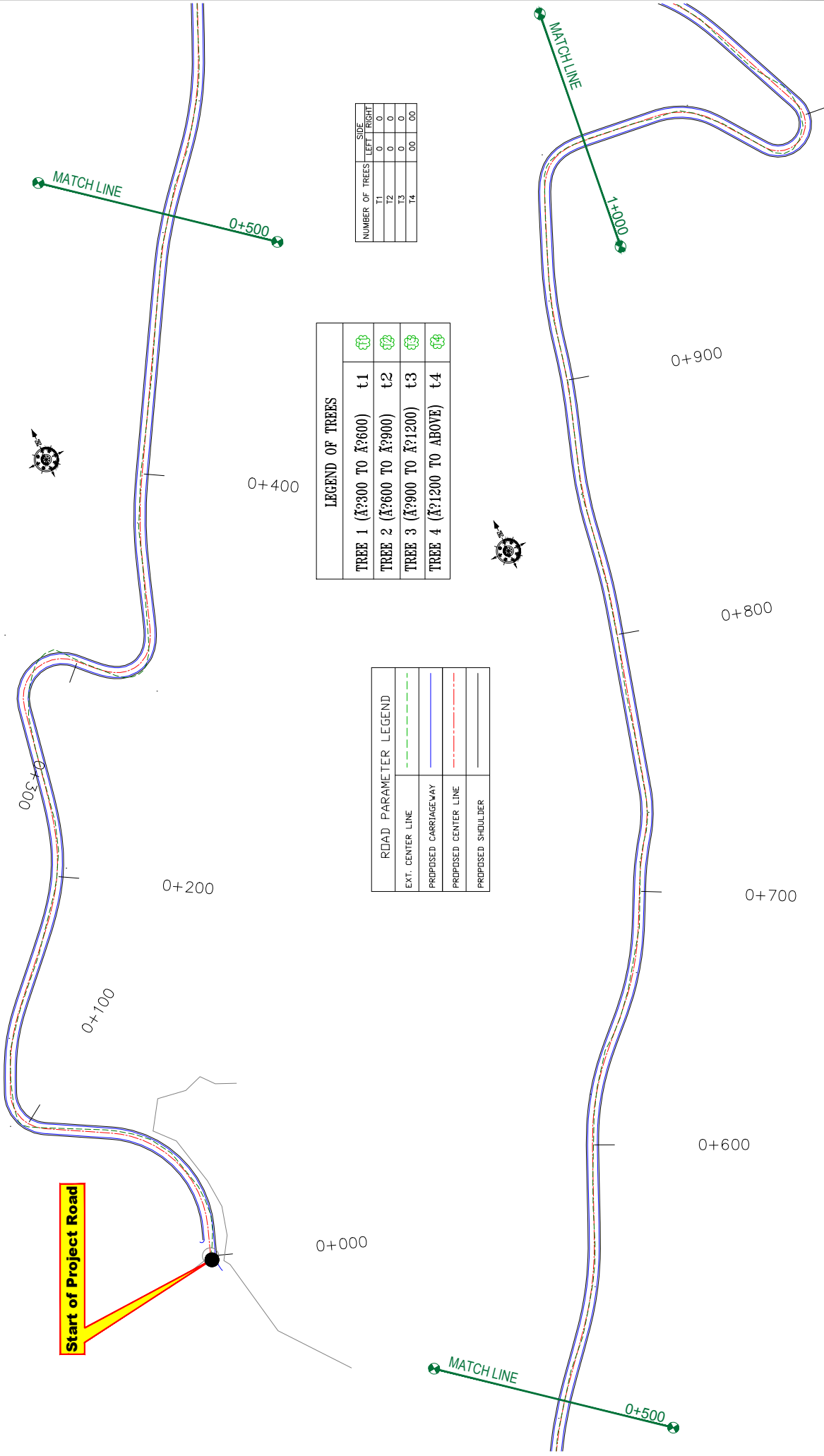
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DRAWN BY :	SD	TITLE : Utility Relocation Plan (For Water Department) (Ch. 10+000 to Ch. 10+138)
DESIGNED BY :	SCK/MM	
APPROVED BY :	KG	
SCALE :	1:1000	
DRG. NO. :	EPTISAJTRFRDPRJ8KURP/11	REVISION : R-1
		September 2019

≡ TREE CUTTING (MAIN ROAD) ≡

← Chiralla

Puneja →

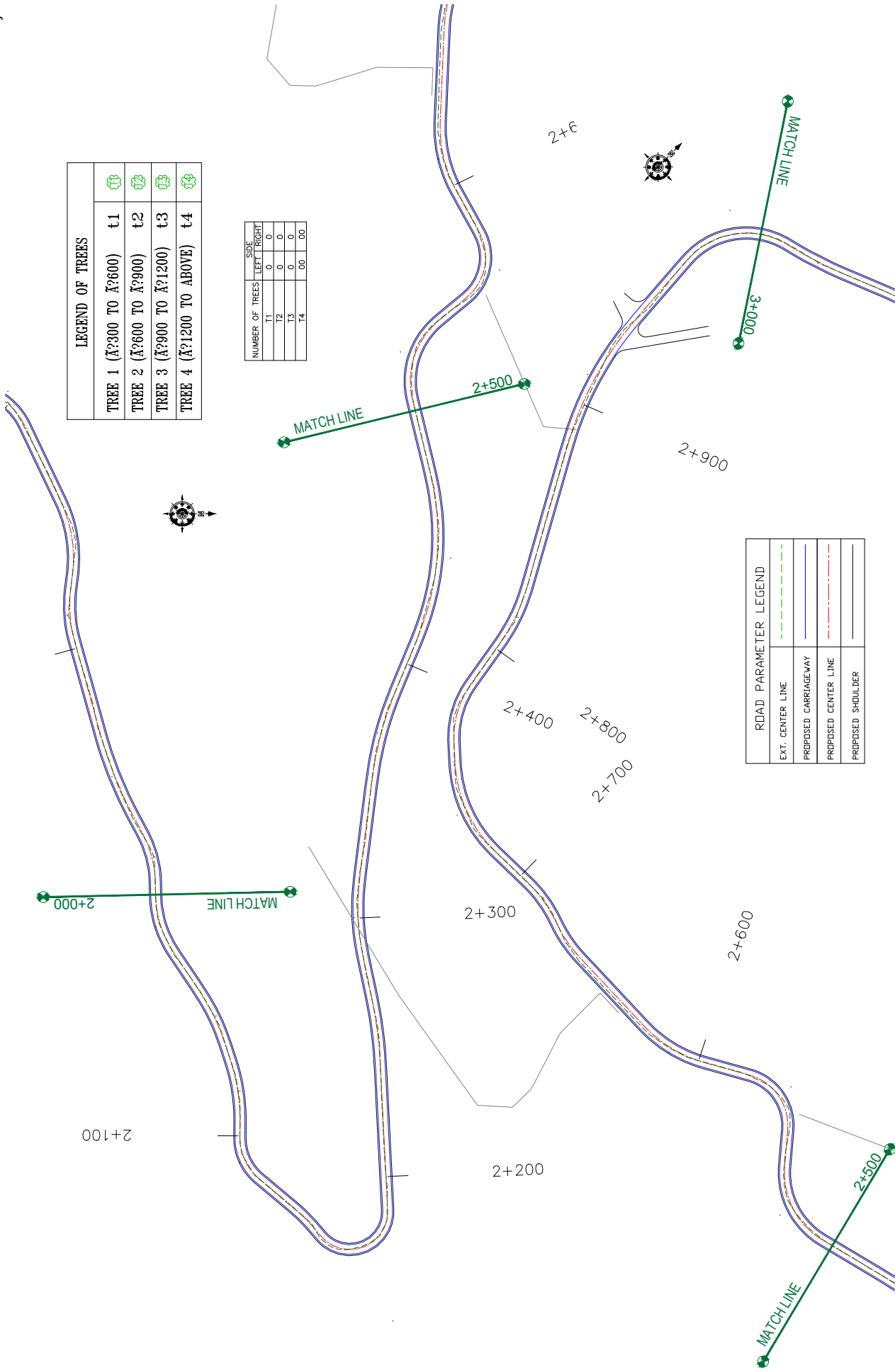


NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	0	0
T2	0	0
T3	0	0
T4	00	00

LEGEND OF TREES	
TREE 1 (A?300 TO A?600)	t1
TREE 2 (A?600 TO A?900)	t2
TREE 3 (A?900 TO A?1200)	t3
TREE 4 (A?1200 TO ABOVE)	t4

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

CLIENT:	 Jhelum Tavri 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 (Chiralla Link Road in Doda District)		
			DESIGN CONSULTANT:	ep_tisa 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.ep _t isa.com	
		DRAWN BY:	SD	TITLE:	TREE CUTTING
		DESIGNED BY:	SCK/MM	(Ch. 0+000 to Ch. 1+000)	
		APPROVED BY:	KG	DRG. NO.:	EPTISAJFFRPPRJ8K7C101
		REV.	DATE	SCALE:	1:1000
		DESCRIPTION		REVISION:	R-1
					September 2019



LEGEND OF TREES	
TREE 1 (A?300 TO A?600)	t1
TREE 2 (A?600 TO A?900)	t2
TREE 3 (A?900 TO A?1200)	t3
TREE 4 (A?1200 TO ABOVE)	t4



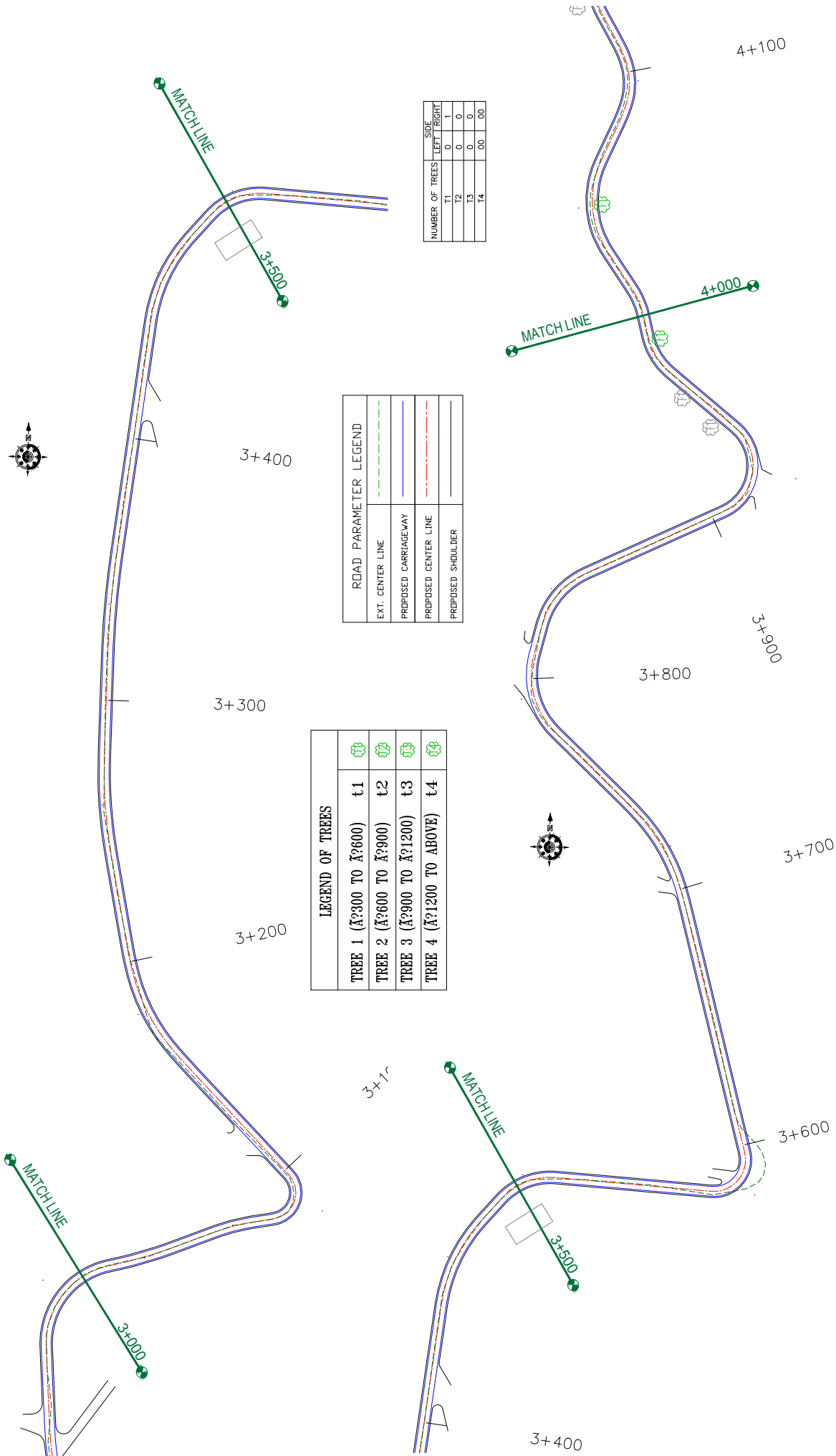
NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	0	0
T2	0	0
T3	0	0
T4	00	00

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

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 (Chiralla Link 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: TREE CUTTING		
DESIGNED BY: SCK/MM		(Ch. 2+000 to Ch. 3+000)		
APPROVED BY: KG		DRG. NO.: EPTISAJTRPPDPJ8K7C/03		
SCALE: 1:1000		REVISION: R-1		
REV.	DATE	DESCRIPTION		

Chiralla

Puneja



LEGEND OF TREES	
TREE 1 (A?300 TO A?600)	t1
TREE 2 (A?600 TO A?900)	t2
TREE 3 (A?900 TO A?1200)	t3
TREE 4 (A?1200 TO ABOVE)	t4

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

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	0	1
T2	0	0
T3	0	0
T4	14	00
	00	00

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
 (Chiralla Link Road in Doda District)

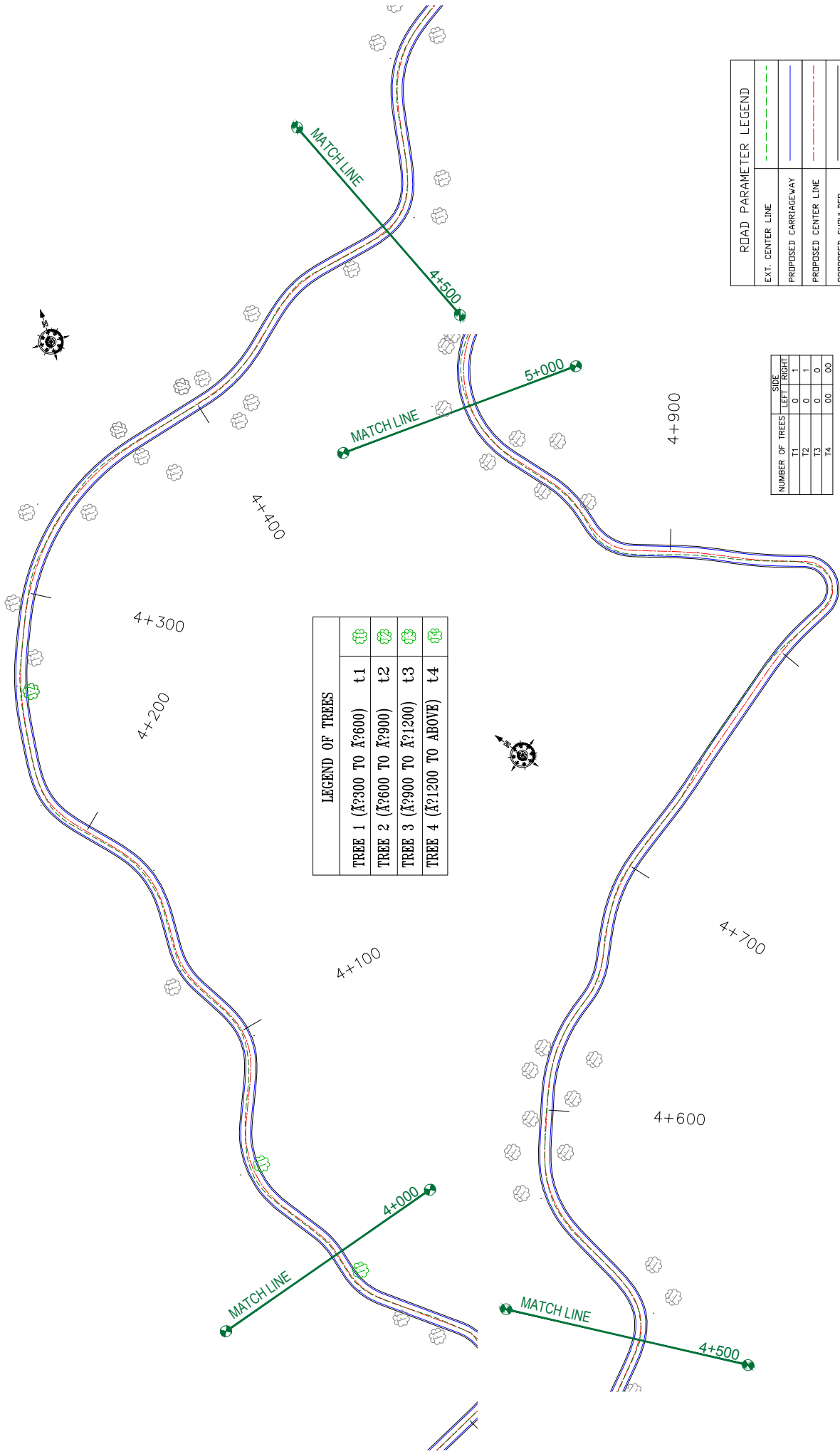
DESIGN CONSULTANT:

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
 REVISION: R-1

TITLE: TREE CUTTING
 (Ch. 3+000 to Ch. 4+000)
 DRG. NO.: EPTISAJFRPDRPJ8K7C104
 (September 2019)

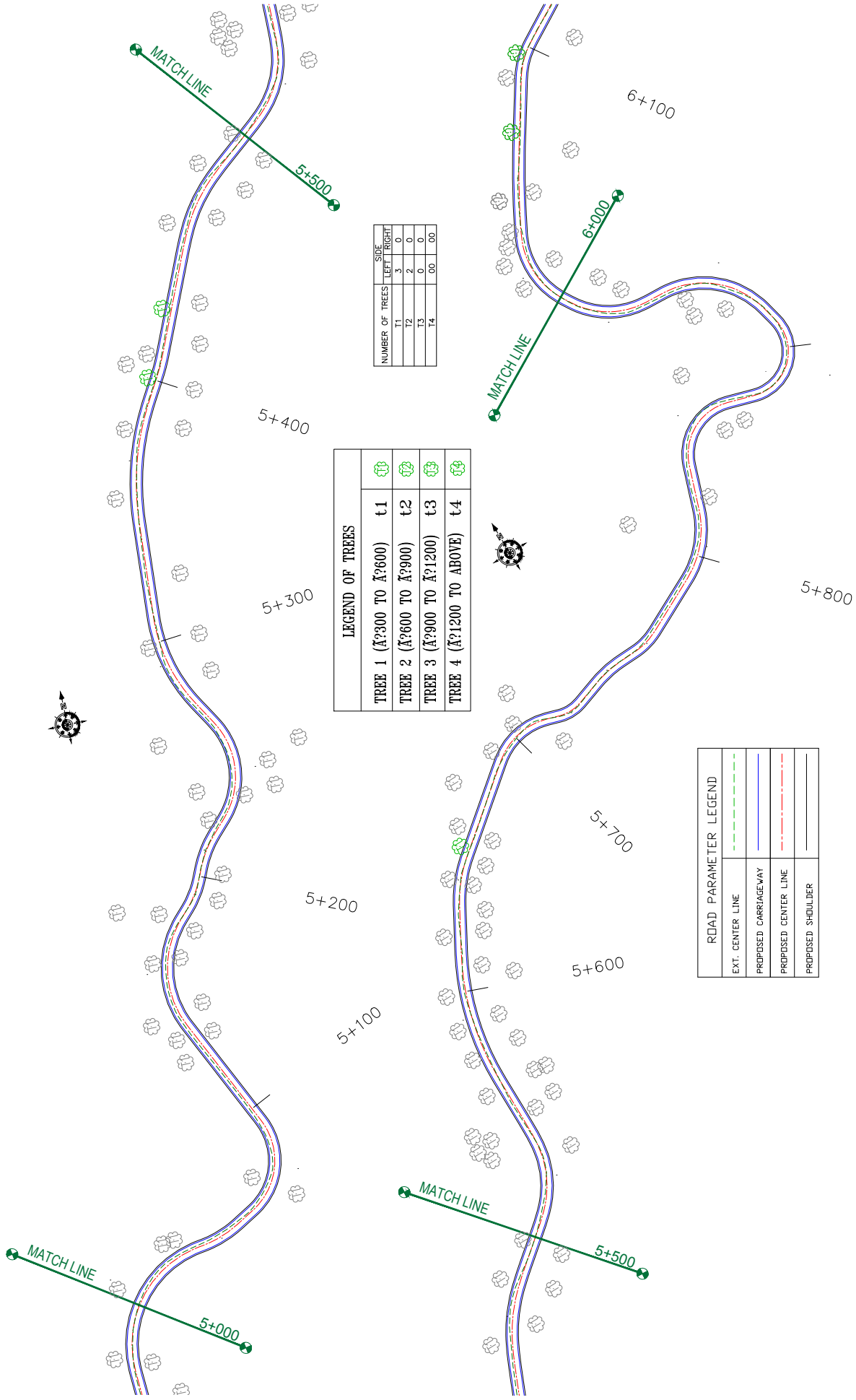


LEGEND OF TREES	
TREE 1 (A?300 TO A?600)	t1
TREE 2 (A?600 TO A?900)	t2
TREE 3 (A?900 TO A?1200)	t3
TREE 4 (A?1200 TO ABOVE)	t4

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	0	1
T2	0	1
T3	0	0
T4	00	00

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

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 (Chiralla Link 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: 033-40347200 www.eptisa.com	
		DRAWN BY:	SD	TITLE:	TREE CUTTING
		DESIGNED BY:	SCK/MM	(Ch. 4+000 to Ch. 5+000)	
		APPROVED BY:	KG	DRG. NO.:	EPTISAJTRPRDPRJ08K7C05
		SCALE:	1:1000	REVISION:	R-1
REV.	DATE	DESCRIPTION			



LEGEND OF TREES

TREE	LEGEND
TREE 1 (A?300 TO A?600)	t1
TREE 2 (A?600 TO A?900)	t2
TREE 3 (A?900 TO A?1200)	t3
TREE 4 (A?1200 TO ABOVE)	t4

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	3	0
T2	2	0
T3	0	0
T4	00	00

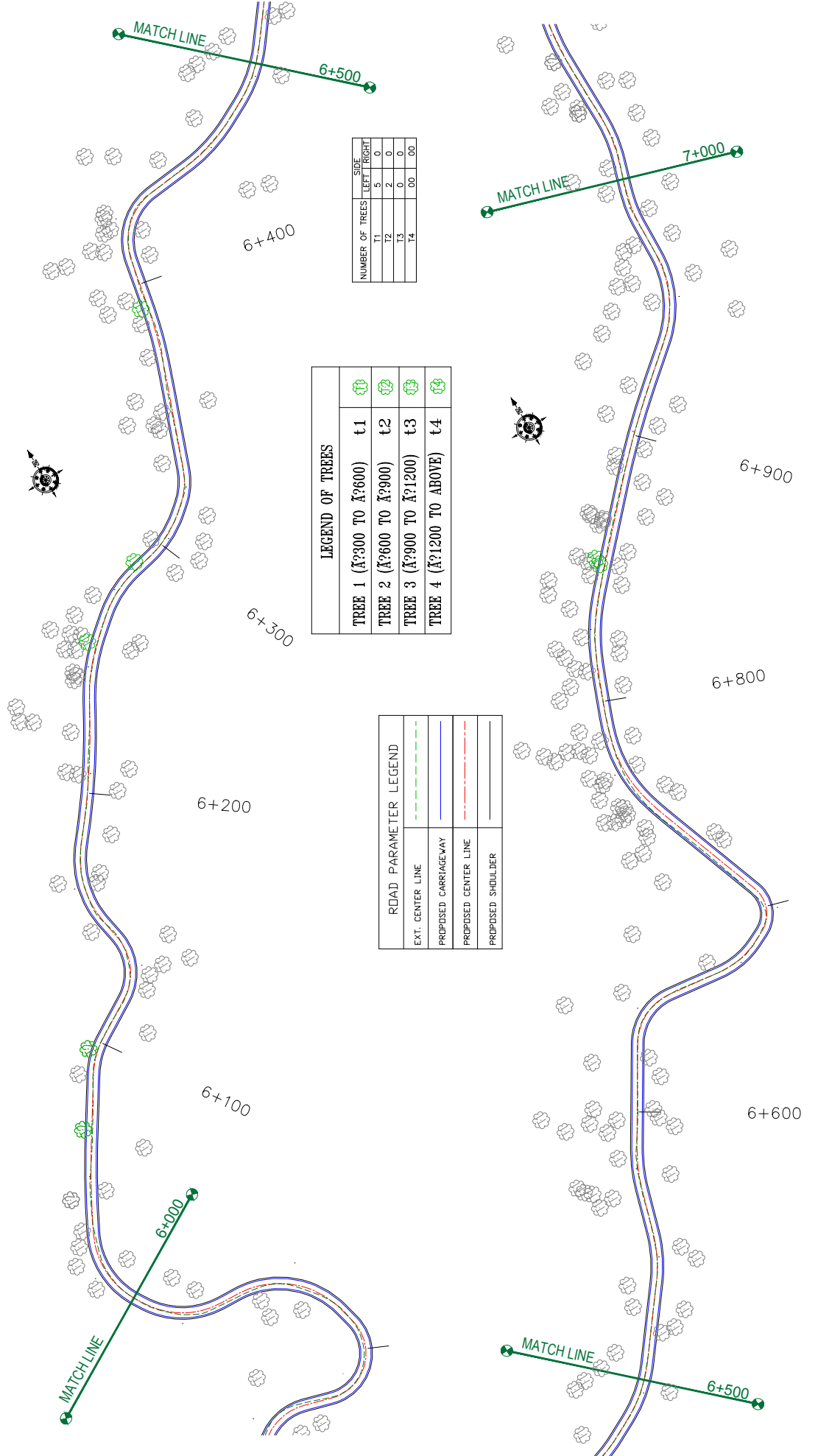
ROAD PARAMETER LEGEND

EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

<p>CLIENT:</p>  <p>Jhelum Talvi 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 (Chiralla Link Road in Doda District)</p>	<p>DESIGN CONSULTANT:</p>  <p>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>	<p>REV:</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV	DATE	DESCRIPTION				<p>TITLE:</p> <p>TREE CUTTING (Ch. 5+000 to Ch. 6+000)</p>
			REV	DATE	DESCRIPTION					
<p>DRAWN BY:</p> <p>SD</p>	<p>DESIGNED BY:</p> <p>SCK/MM</p>	<p>APPROVED BY:</p> <p>KG</p>	<p>SCALE:</p> <p>1:1000</p>	<p>REVISION:</p> <p>R-1</p>						

Chiralla

Puneja



LEGEND OF TREES

TREE 1 (A?300 TO A?600)	t1
TREE 2 (A?600 TO A?900)	t2
TREE 3 (A?900 TO A?1200)	t3
TREE 4 (A?1200 TO ABOVE)	t4

ROAD PARAMETER LEGEND

EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	5	0
T2	2	0
T3	0	0
T4	0	0



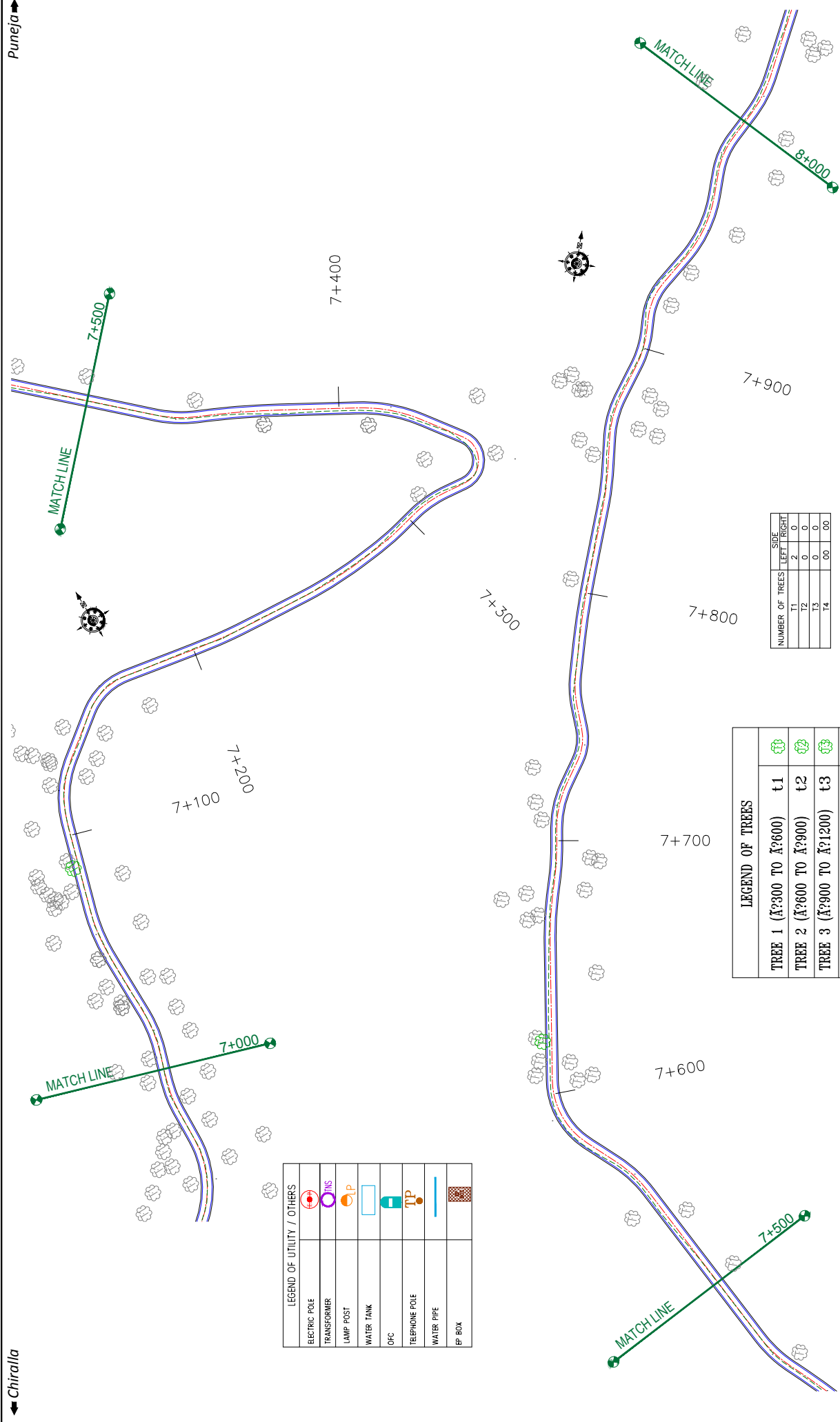
CLIENT:
 Jhelum Tawi Flood Recovery Project
 2nd Floor ERA Commercial Complex Rambagh
 Srinagar-190 009.

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

DESIGN CONSULTANT:
epitisa *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.epitisa.com

DRAWN BY:	SD	TITLE:	TREE CUTTING
DESIGNED BY:	SCK/MM		(Ch. 6+000 to Ch. 7+000)
APPROVED BY:	KG	DRG. NO.:	EPTISAJTRPRDPRJ08/KTC/07
SCALE:	1:1000	REVISION:	R-1
REV.	DATE	DESCRIPTION	

September 2019



Puneja

Chiralla

LEGEND OF UTILITY / OTHERS

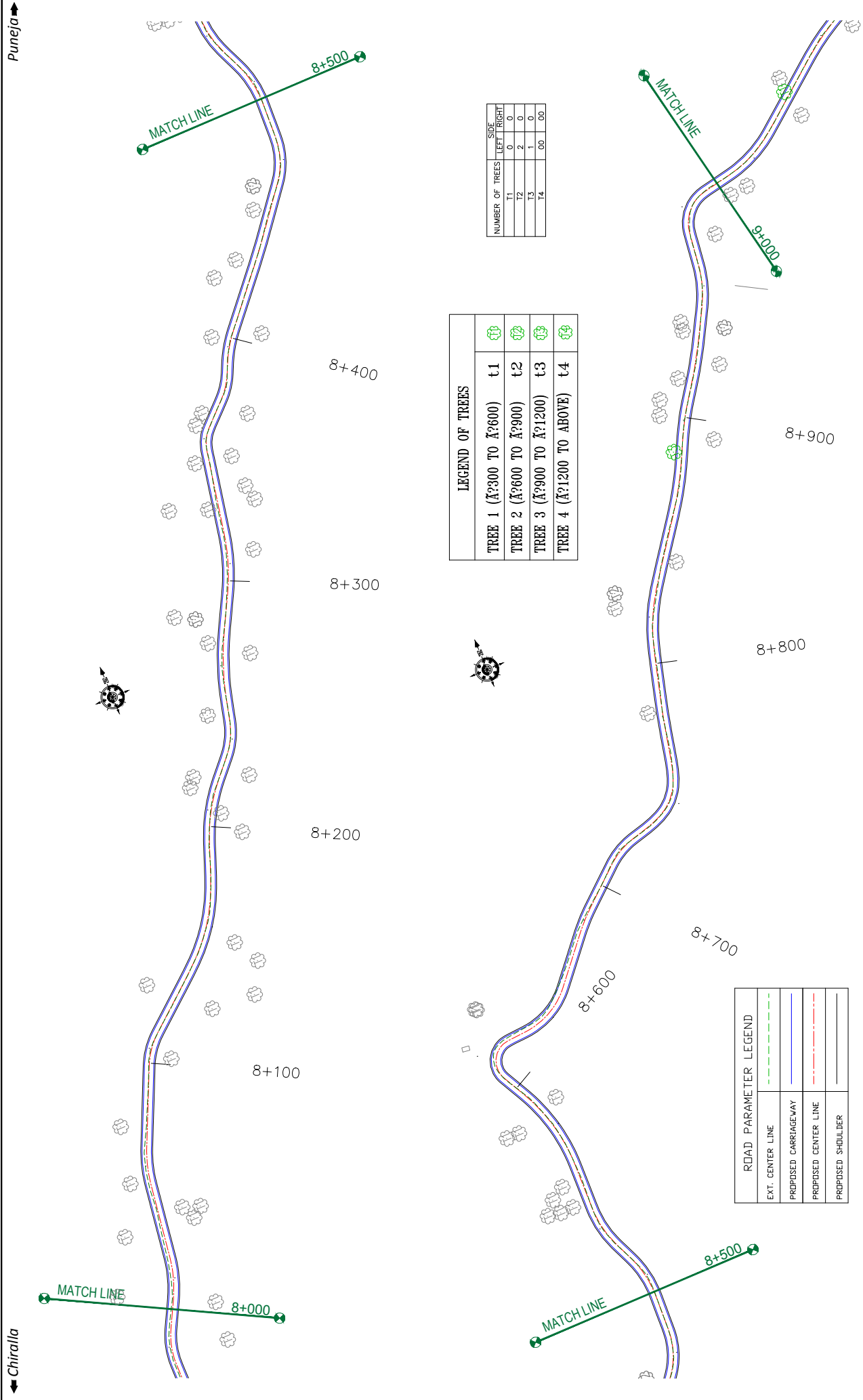
ELECTRIC POLE	
TRANSFORMER	
LAMP POST	
WATER TANK	
OFC	
TELEPHONE POLE	
WATER PIPE	
EP BOX	

LEGEND OF TREES

TREE 1 (A?300 TO A?600)	t1	
TREE 2 (A?600 TO A?900)	t2	
TREE 3 (A?900 TO A?1200)	t3	
TREE 4 (A?1200 TO ABOVE)	t4	

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	2	0
T2	0	0
T3	0	0
T4	14	00

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 (Chiralla Link Road in Doda District)	
			DESIGN CONSULTANT:	ep_tisa 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:	TREE CUTTING (Ch. 7+000 to Ch. 8+000)	
DESIGNED BY:	SCK/MM	DRG. NO.:	EPTISAJTRPPDRJ8K7C108	
APPROVED BY:	KG	REVISION:	R-1	
SCALE:	1:1000	DATE:	September 2019	
REV:	DESCRIPTION	DATE	DESCRIPTION	



Puneja

Chiralla

LEGEND OF TREES

TREE 1 (A?300 TO A?600)	t1	TREE 2 (A?600 TO A?900)	t2	TREE 3 (A?900 TO A?1200)	t3	TREE 4 (A?1200 TO ABOVE)	t4

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	0	0
T2	2	0
T3	0	0
T4	0	0

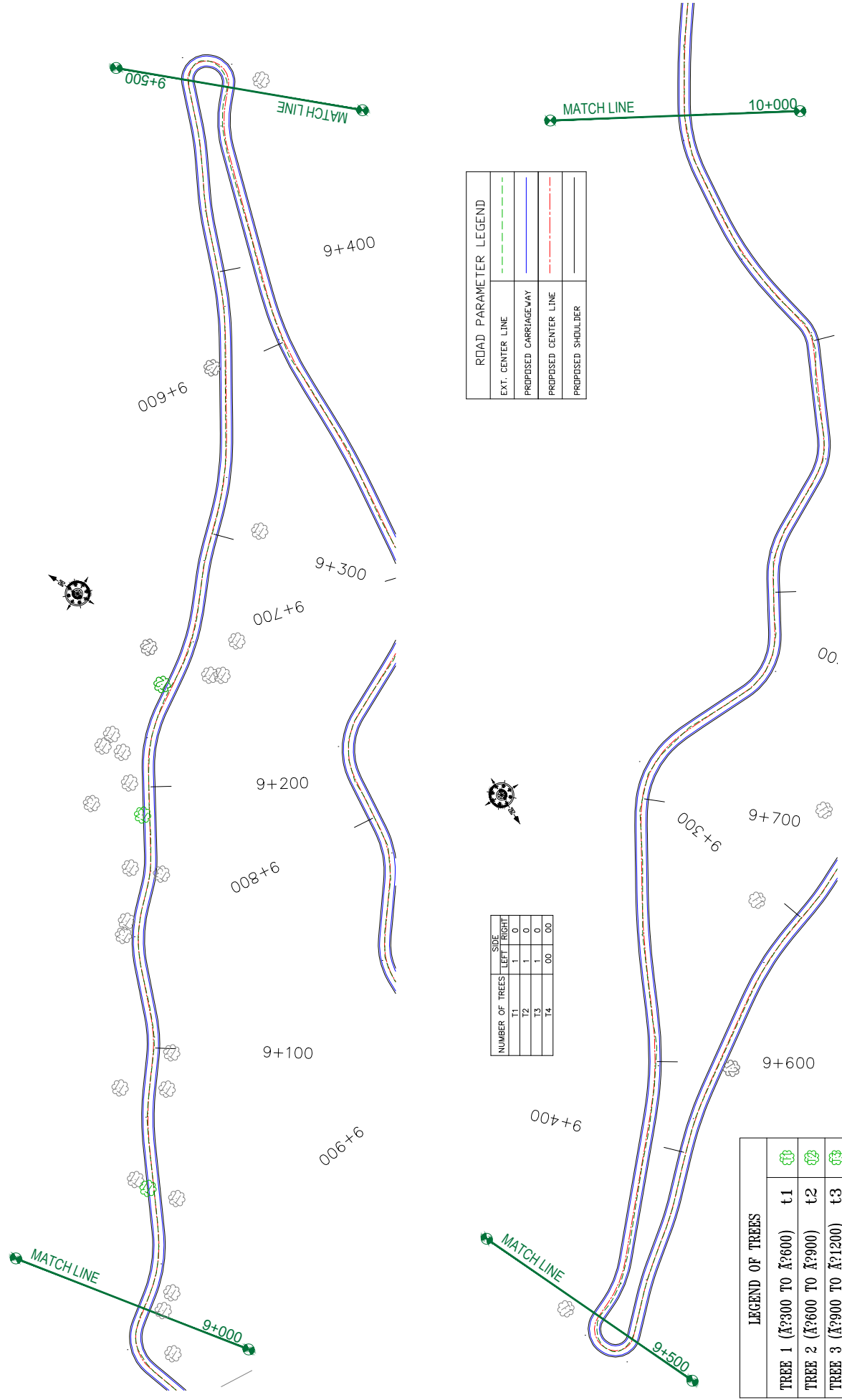
ROAD PARAMETER LEGEND

EXT. CENTER LINE	
PROPOSED CARRIAGEWAY	
PROPOSED CENTER LINE	
PROPOSED SHOULDER	

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 (Chiralla Link 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: TREE CUTTING (Ch. 8+000 to Ch. 9+000)
		DRAWN BY: SD DESIGNED BY: SCK/MM APPROVED BY: KG	SCALE: 1:1000 REVISION: R-1	DRG. NO.: EPTISAJTFRRPDRJ8K7C109 DATE: September 2019

Chiralla

Puneja



ROAD PARAMETER LEGEND

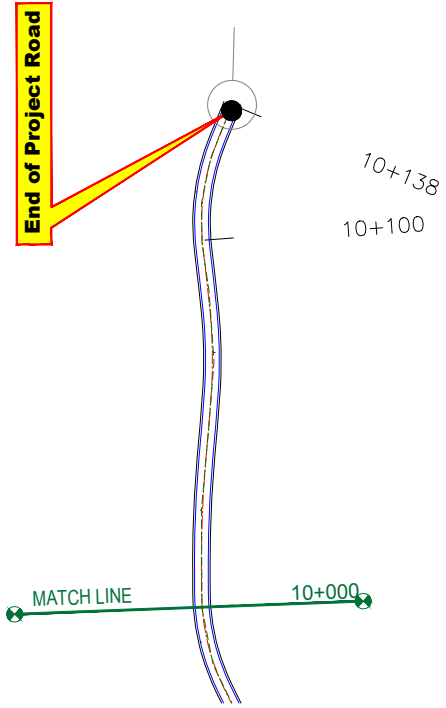
EXT. CENTER LINE	---
PROPOSED CARRIAGEWAY	---
PROPOSED CENTER LINE	---
PROPOSED SHOULDER	---

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
T1	1	0
T2	1	0
T3	1	0
T4	00	00

LEGEND OF TREES

TREE 1 (A?300 TO A?600)	t1	
TREE 2 (A?600 TO A?900)	t2	
TREE 3 (A?900 TO A?1200)	t3	
TREE 4 (A?1200 TO ABOVE)	t4	

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 (Chiralla Link 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:	TREE CUTTING
			DESIGNED BY:	SCK/MM	(Ch. 9+000 to Ch. 10+000)	
APPROVED BY:	KG	DRG. NO.:	EPTISAJTRPPDRJ8K7C/10			
REV.	DATE	DESCRIPTION	SCALE:	1:1000		
			REVISION:	R-1		
				September 2019		



LEGEND OF TREES	
TREE 1 (A?300 TO A?600)	t1
TREE 2 (A?600 TO A?900)	t2
TREE 3 (A?900 TO A?1200)	t3
TREE 4 (A?1200 TO ABOVE)	t4

NUMBER OF TREES	SIDE	
	LEFT	RIGHT
11	0	0
12	0	0
13	0	0
14	00	00

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

CLIENT:

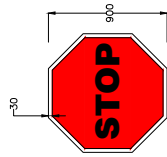
 Jhelum Talvi Flood Recovery Project
 2nd Floor ERA Commercial Complex Rambagh
 Srinagar-190 009.

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

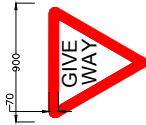
DESIGN CONSULTANT:
epi *servicios de Ingenieria S.L.*
 Unit 1203, 12th Floor, Tower 1, PS Srijan
 Corporate Park, Plot No. 2, Block EP & GP,
 Sector V, Salt Lake Kolkata - 700091,
 West Bengal
 Ph: 033-40347200
 www.epiisa.com

DRAWN BY: SD	TITLE: TREE CUTTING
DESIGNED BY: SCK/MM	(Ch. 10+000 to Ch. 10+138)
APPROVED BY: KG	DRG. NO.: EPTISAJTRPRDPRJ08K7C11
SCALE: 1:1000	REVISION: R-1
REV:	DATE
DESCRIPTION	SEPTEMBER 2019

☰ MISCELLANEOUS DRAWINGS ☰



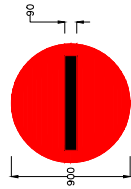
STOP SIGNS
Fig. 14.01
[MS-1]



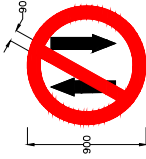
GIVE WAY
Fig. 14.02
[MS-2]



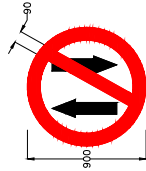
HORN PROHIBITED
Fig. 14.18
[MS-3]



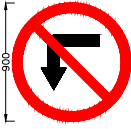
NO ENTRY
Fig. 14.19
[MS-4]



ONE WAY
Fig. 14.20
[MS-5]



ONE WAY
Fig. 14.20
[MS-6]



LEFT TURN PROHIBITED
Fig. 14.21
[MS-7]



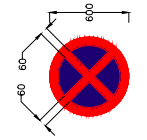
RIGHT TURN PROHIBITED
Fig. 14.22
[MS-8]



OVERTAKING PROHIBITED
Fig. 14.23
[MS-9]



U-TURN PROHIBITED
Fig. 14.24
[MS-10]



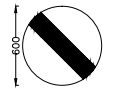
NO STOPPING AND NO STANDING
Fig. 14.28
[MS-11]



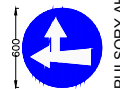
NO PARKING
Fig. 14.29
[MS-12]



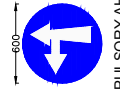
MAXIMUM SPEED LIMIT
Fig. 14.37
[MS-13]



RESTRICTION ENDS
Fig. 14.40
[MS-14]



COMPULSORY AHEAD
OR RIGHT TURN
Fig. 14.42
[MS-15]



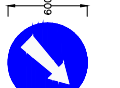
COMPULSORY AHEAD
OR LEFT TURN
Fig. 14.43
[MS-16]



COMPULSORY
TURN RIGHT
Fig. 14.46
[MS-17]



COMPULSORY
TURN LEFT
Fig. 14.47
[MS-18]



COMPULSORY KEEP LEFT
Fig. 14.48
[MS-19]



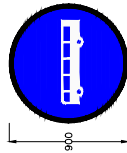
COMPULSORY KEEP RIGHT
Fig. 14.49
[MS-20]



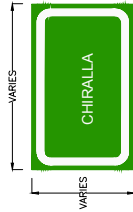
PASS EITHER SIDE
Fig. 14.50
[MS-21]



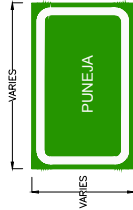
MINIMUM SPEED LIMIT
Fig. 14.51
[MS-22]



BUS WAY/BUSES ONLY
Fig. 14.56
[MS-23]



PLACE IDENTIFICATION SIGN
Fig. 16.06
[DS-01]

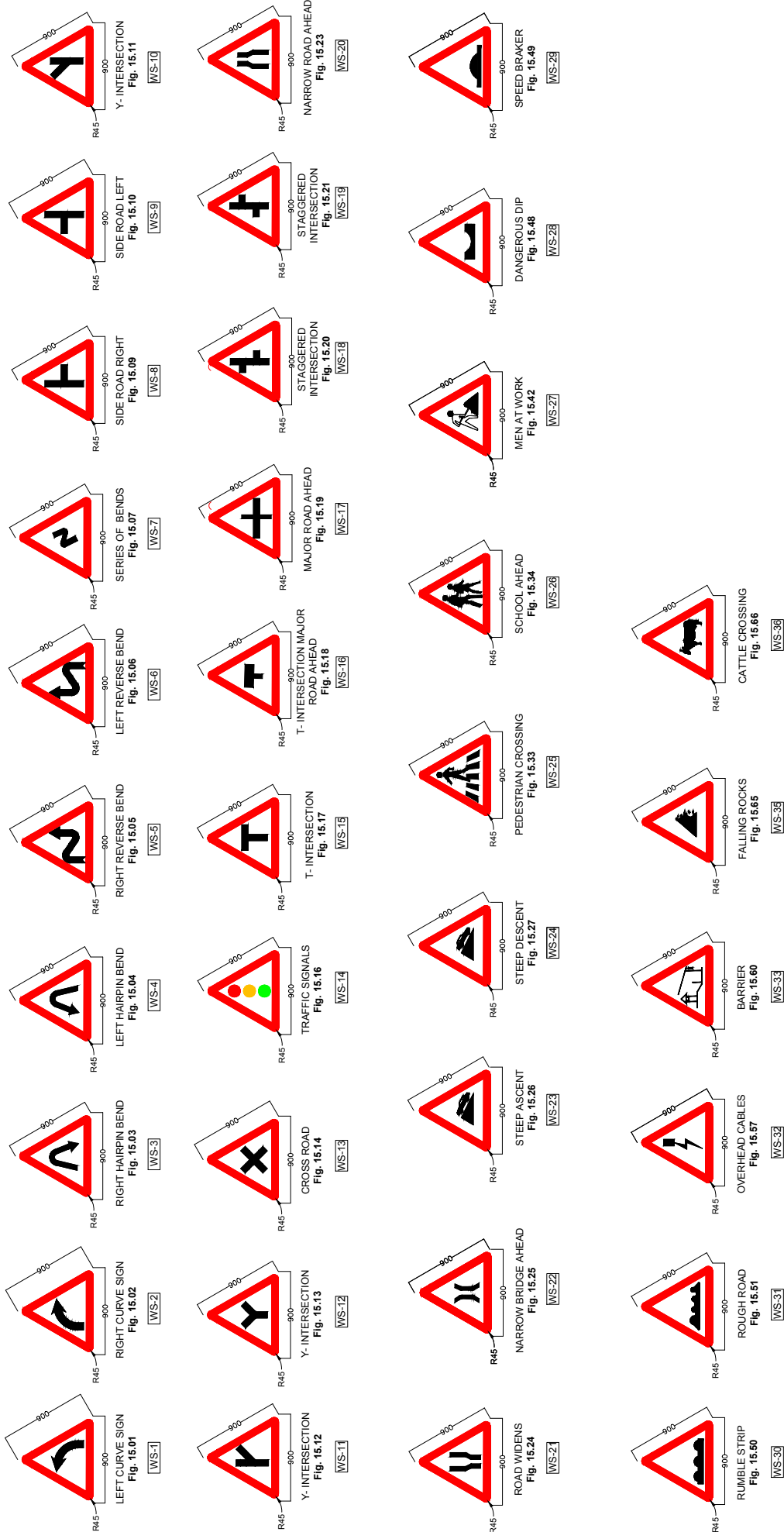


PLACE IDENTIFICATION SIGN
Fig. 16.06
[DS-02]

Notes:


- Road signs shall be erected as per IRC:67-2012.
- Sizes of arrows, letters and numerals for road signs shall be as per IRC:67-2012.
- Route marker signs, letters and numerals shall be erected as per IRC:2-1968.
- 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.
- All items indicated in this drawing may not be relevant for the subject project, these shall be used depending upon the requirement.
- Besides the above, standards and specifications mentioned in IRC : SP : 73-2015 shall be followed strictly whenever applicable.
- All dimensions are in millimetres unless otherwise mentioned.

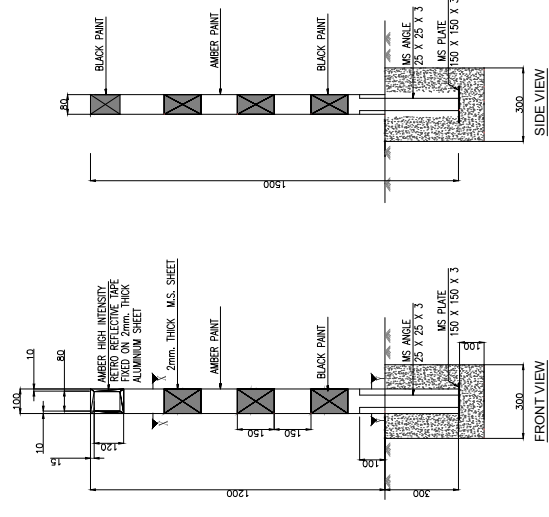
CLIENT:	Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-180 009.		
	PROJECT:		
DESIGN CONSULTANT:	Eptisa Servicios de Ingeniería S.L Unit 1203, 12th Floor, Tower 1, P5 Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector V, Salt Lake Kolkata - 700091, West Bengal Ph: 033-40347200 www.eptisa.com		
	PROJECT:		
Road Signs & Road Delineators			
DRAWN BY:	SD	TITLE:	
DESIGNED BY:	SCK/MM	REVISION:	
APPROVED BY:	KG	SCALE:	N.T.S
REV:	DATE	DESCRIPTION	
DRG. NO.:	EPTISAJTFRPPDRJ08/MISC/01 (Sheet 01 of 03)	DRG. NO.:	EPTISAJTFRPPDRJ08/MISC/01 (Sheet 01 of 03)
REVISION:	R-1	DATE:	September 2019



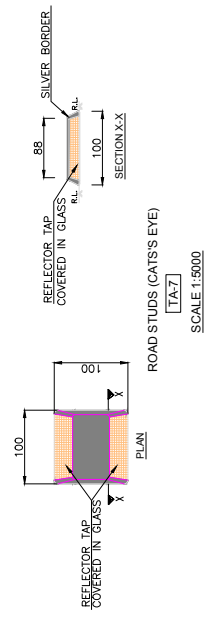
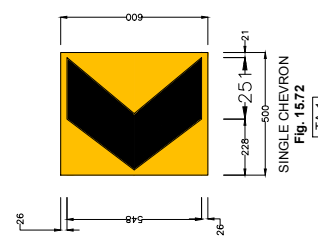
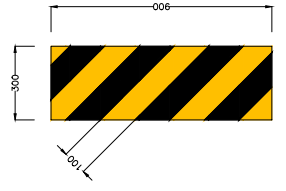
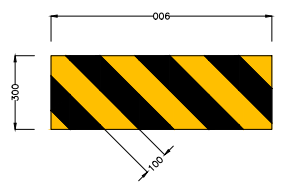
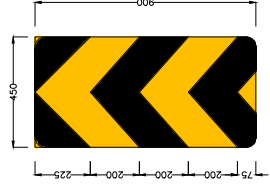
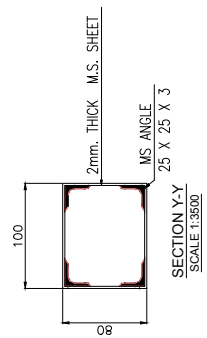
Notes:

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-79-2015 shall be followed strictly whenever applicable.
5. All dimensions are in millimetres unless otherwise mentioned.



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 (Chiralla Link Road in Doda District)	
	DESIGN CONSULTANT: eptisa Eptisa Servicios de Ingeniería S.L Unit 1203, 12th Floor, Tower 1, P5 Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector V, Salt Lake Kolkata - 700091, West Bengal Ph: 033-40347200 www.eptisa.com			TITLE: Road Signs & Road Delineators	
DRAWN BY:		SD	DESIGNED BY:		SCK/MM
REV:		DATE	APPROVED BY:		KG
DESCRIPTION		SCALE:	N.T.S		DRG. NO.: EPTISAJTRPPDRPJ8K/MISC/01 (Sheet 02 of 03)
REV		DATE	SCALE		REVISION: R-1
DESCRIPTION		SCALE:	N.T.S		SEPTEMBER 2019

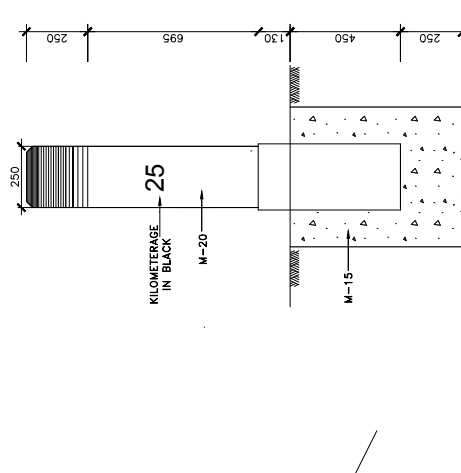


ROAD DELINEATORS
[TA-6]
SCALE 1:15000

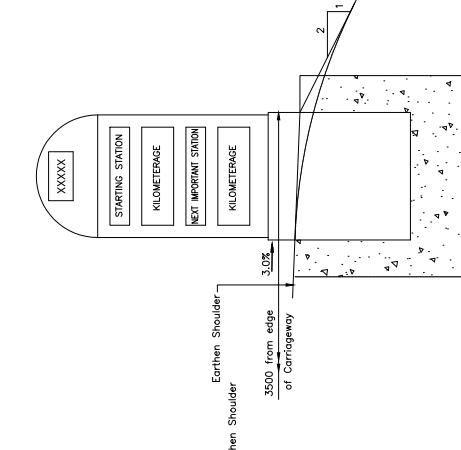


- Notes:**
- Road signs shall be erected as per IRC:67-2012.
 - Sizes of arrows, letters and numerals for road signs shall be as per IRC:67-2012
 - All items indicated in this drawing may not be relevant for the subject project, these shall be used depending upon the requirement.
 - Besides the above,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

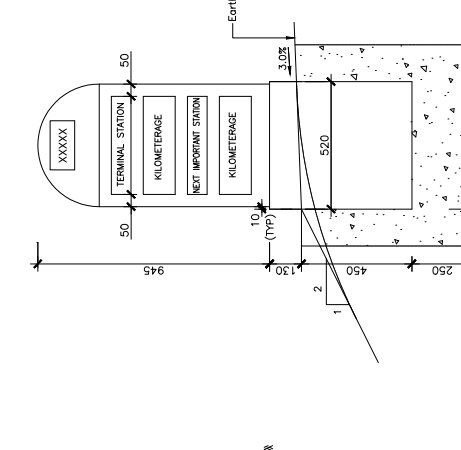
CLIENT:  Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-180 009.	PROJECT: Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Chiralla Link Road in Doda District)	DESIGN CONSULTANT:  Eptisa <i>servicios de ingeniería S.L</i> Unit 1203, 12th Floor, Tower 1, P5 Srijan Corporate Park, Plot No. 2, Block EP & GP, Sector V, Salt Lake Kolkata - 700091, West Bengal Ph: 033-40347200 www.eptisa.com		TITLE: Road Signs & Road Delineators
		DRAWN BY : SD	DESIGNED BY : SKK/MM	APPROVED BY : KG
REV.	DATE	DESCRIPTION	SCALE : AS SHOWN	REVISION : R-1



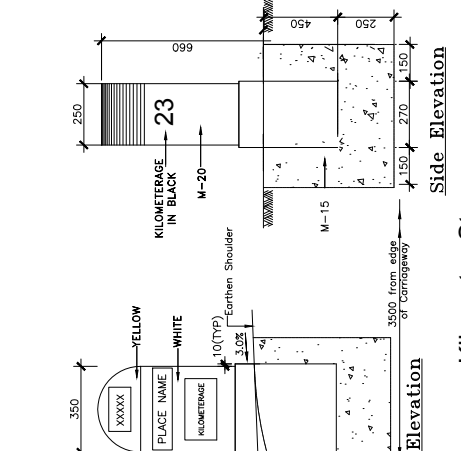
Side Elevation



Face - II Elevation

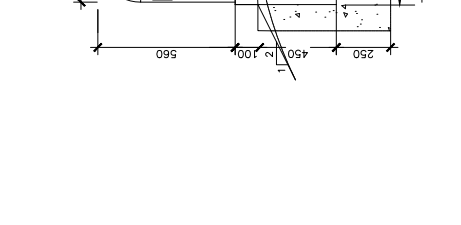


Face - I Elevation

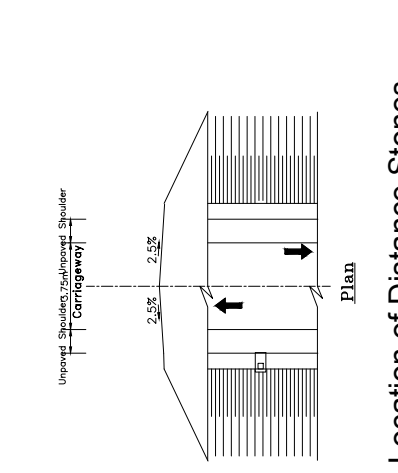


Side Elevation

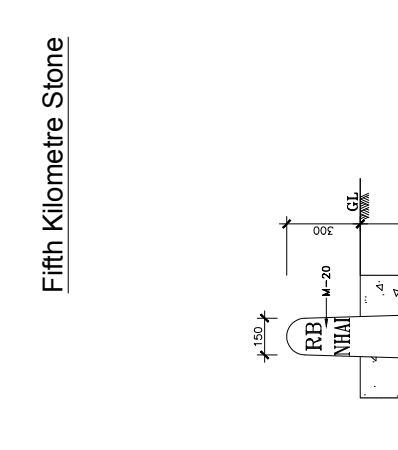
Kilometrage Stone



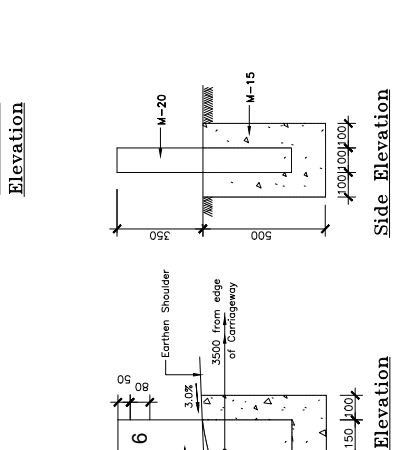
Elevation



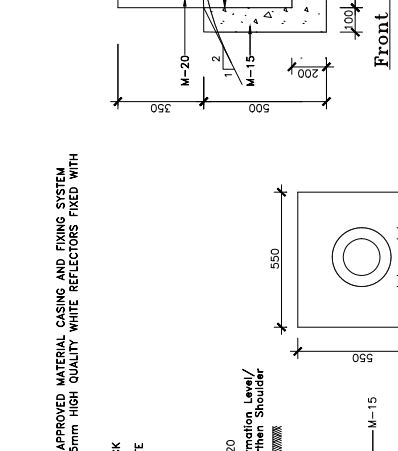
Plan



Plan

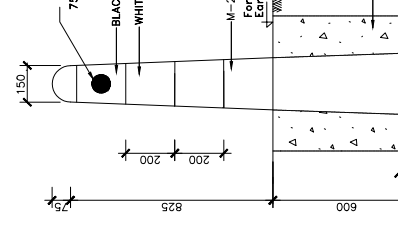


Side Elevation



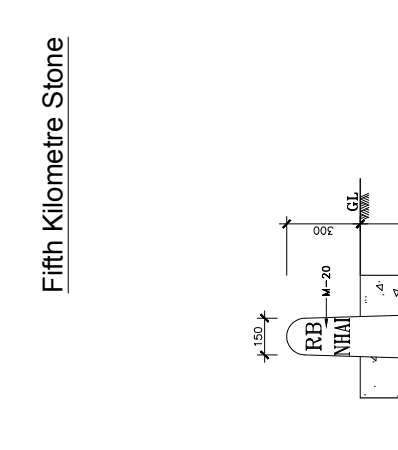
Front Elevation

200 metre Stone



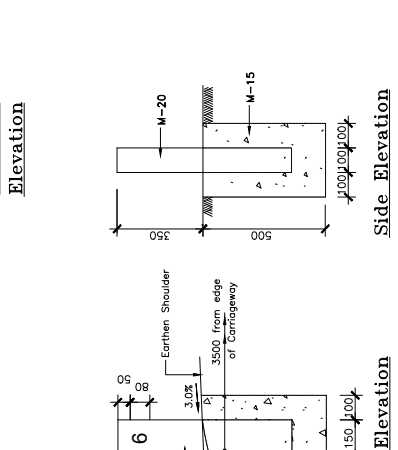
Elevation

Guard Post

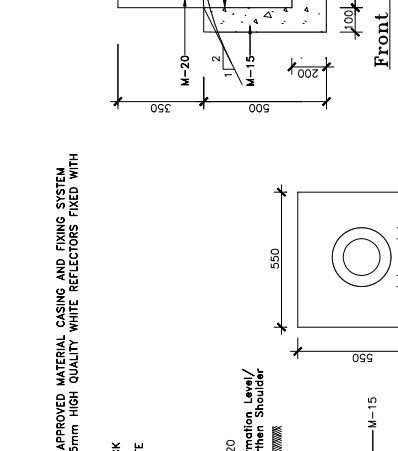


Elevation

Boundary Stone



Side Elevation





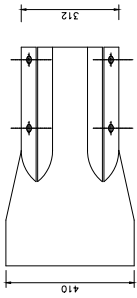
Plan

Location of Distance Stones

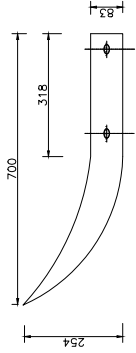
Notes:

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.

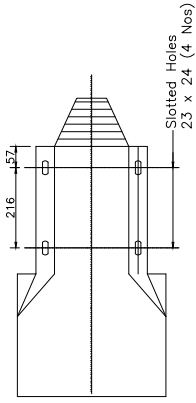
CLIENT :	 Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.		
	PROJECT :	Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Chiralla Link Road in Doda District)	
DESIGN CONSULTANT :	 Eptisa <i>Epita</i> <i>Servicios de Ingeniería S.L</i> Unit 1203, 12th Floor, Tower 1, P5 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 :	Typical Details of Distance Stone, Boundary Stone & Guard Post
DESIGNED BY :	SCK/MM	APPROVED BY :	KG
SCALE :	N.T.S	DRG. NO. :	EPTISAJUTFRPDRR08/KMISC/02
REV. :	DATE :	DESCRIPTION :	
REVISION :	R-1		September, 2019



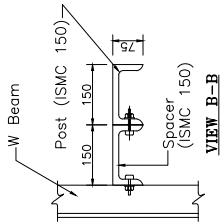
ROUNDED END SECTION
SIDE VIEW



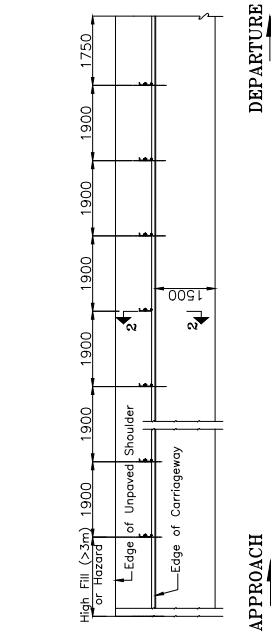
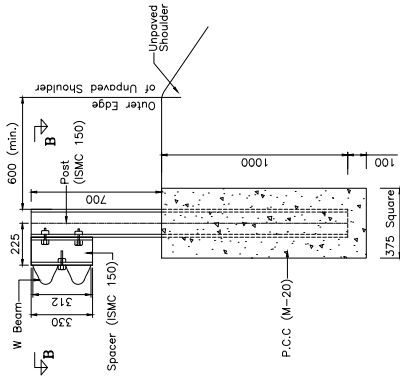
TOP VIEW OF ROUNDED END SECTION



ROUNDED END SECTION
SIDE VIEW

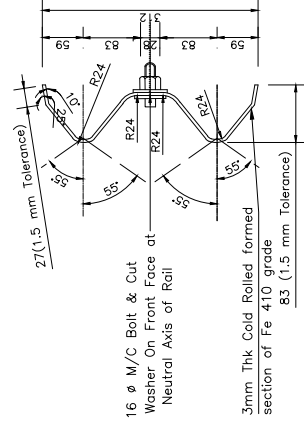
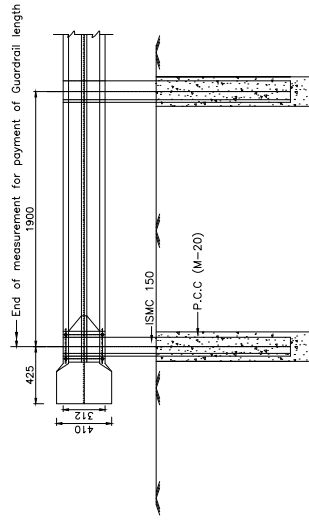


VIEW B-B





PLAN OF APPROACH END

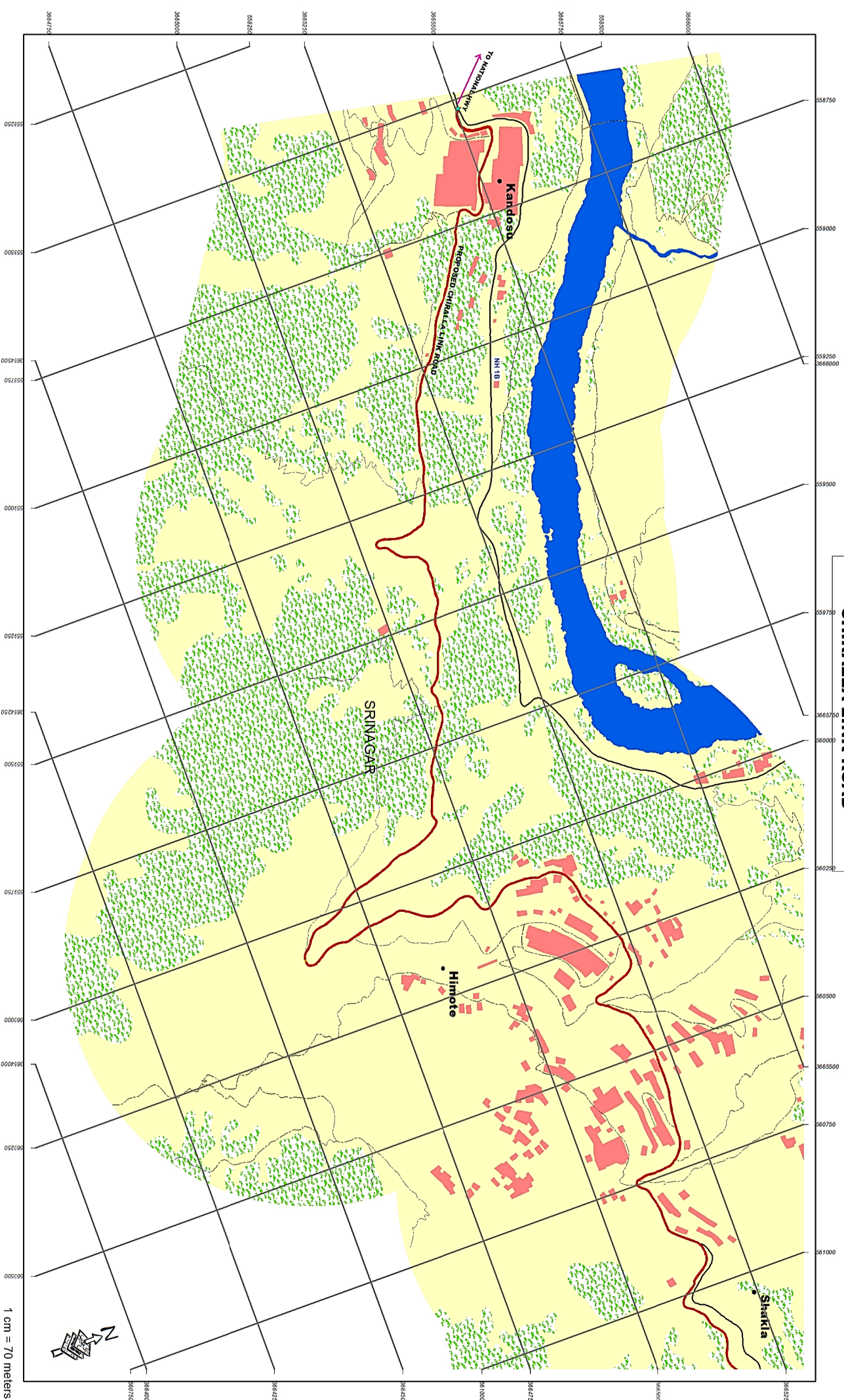
DETAIL OF BREAKAWAY CABLE ANCHOR ASSEMBLY



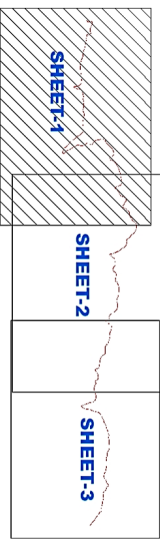
- Notes:**
- All dimensions are in millimetres unless otherwise mentioned
 - Suitable reflectors are to be provided on W-beam at a spacing of 3 m c/c
 - All holes in posts and blocks shall be 21.5mm max.
 - W-beam shall be as per IS : 5986 - 1992 and post, spacers etc. shall be as per IS : 2082 - 1992
 - W-beam, posts & spacers shall be hot dip galvanized as per specifications
 - Besides the above, standards and specifications mentioned in IRC : SP : 73-2015 shall be followed whenever applicable.
 - Welding (Shielding and welding) 5 "W" mild beam crash barrier samples of 3 mm thick structural sheet (Fe-510) metal beam roll, 70 mm above road/ground level fixed on ISMC (Fe-410) series channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.1 m below ground/road level, all steel parts and fittings to be hot dip galvanized as per specifications.
 - IS-5986 and for post and spacer IS-2082, metal beam roll to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 350 mm long complete as per clause 810)

 <p>Design Consultant: 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>	TITLE : Details of Metal Beam Crash Barrier
	DRAWN BY : SD DESIGNED BY : SCK/MM APPROVED BY : KG SCALE : N.T.S REVISION : R-1
PROJECT : Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Chiralla Link Road in Doda District)	CLIENT :  Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-190 009.

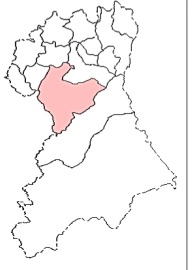
CHIRALLA LINK ROAD



INDEX MAP



- Legend**
- ▲ Importance Landmark
 - ★ Start End Point
 - Village Name
 - Park
 - Bridge
 - Restricted Area
 - Road Centreline
 - Proposed Road
 - Major Road
 - Other Road
 - Building
 - Forest
 - Water
 - Swamp
 - Vegetation
 - Swamp Area
 - Open/Agriculture Land

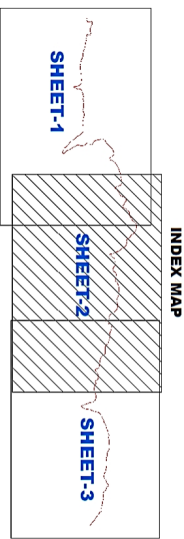
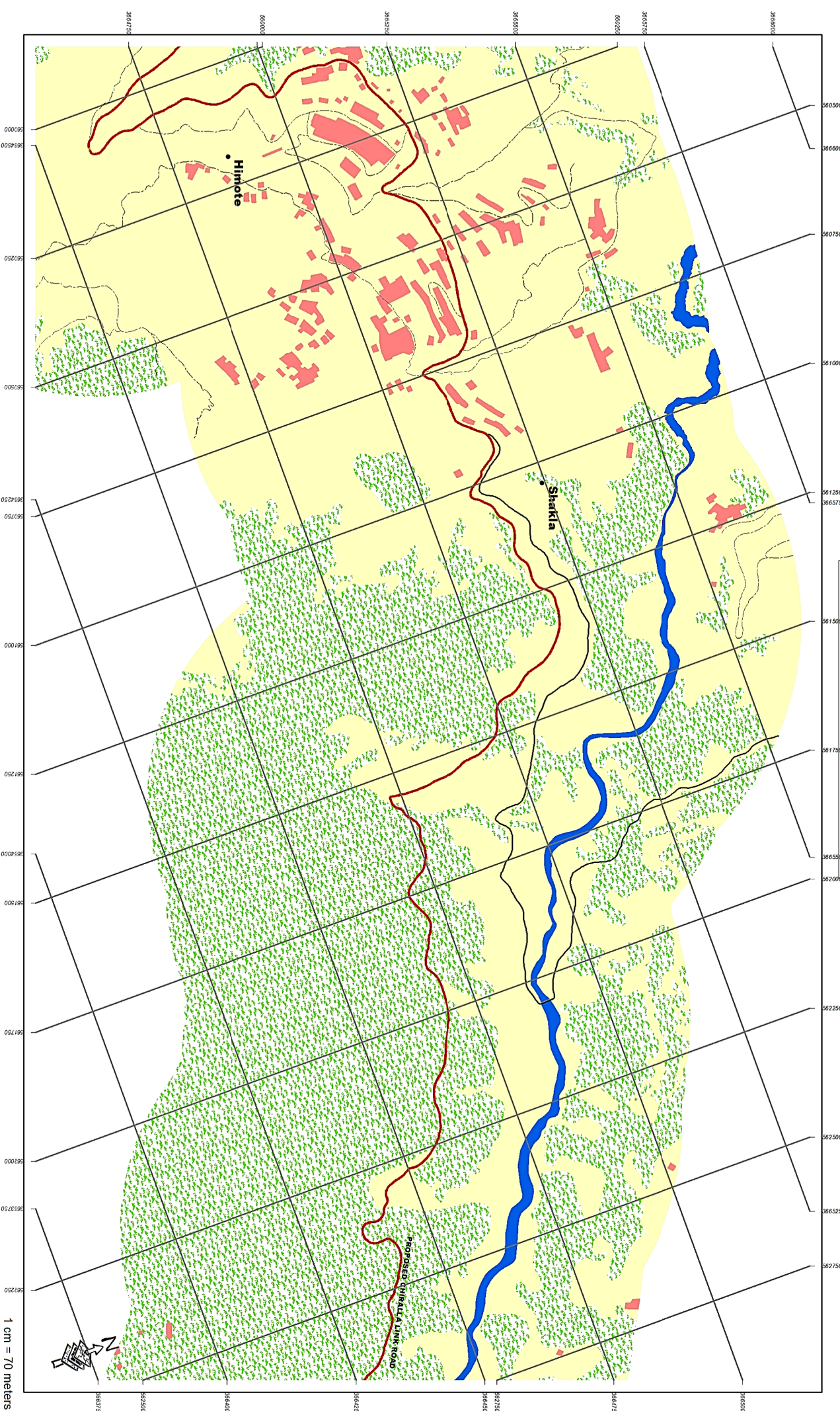


Project: JHELUM TAWI FLOOD RECOVERY PROJECT
Sub-Project: FOR RECONSTRUCTION OF CHIRALLA LINK ROAD UNDER JAMMU DIVISION
Agency: PROJECT MANAGEMENT UNIT JTFRP

1 cm = 70 meters



CHIRALLA LINK ROAD



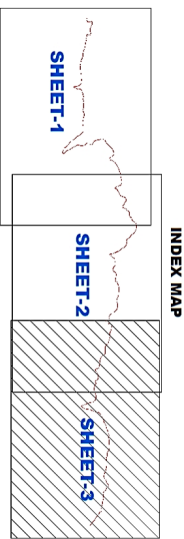
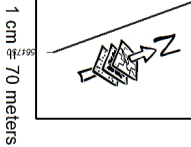
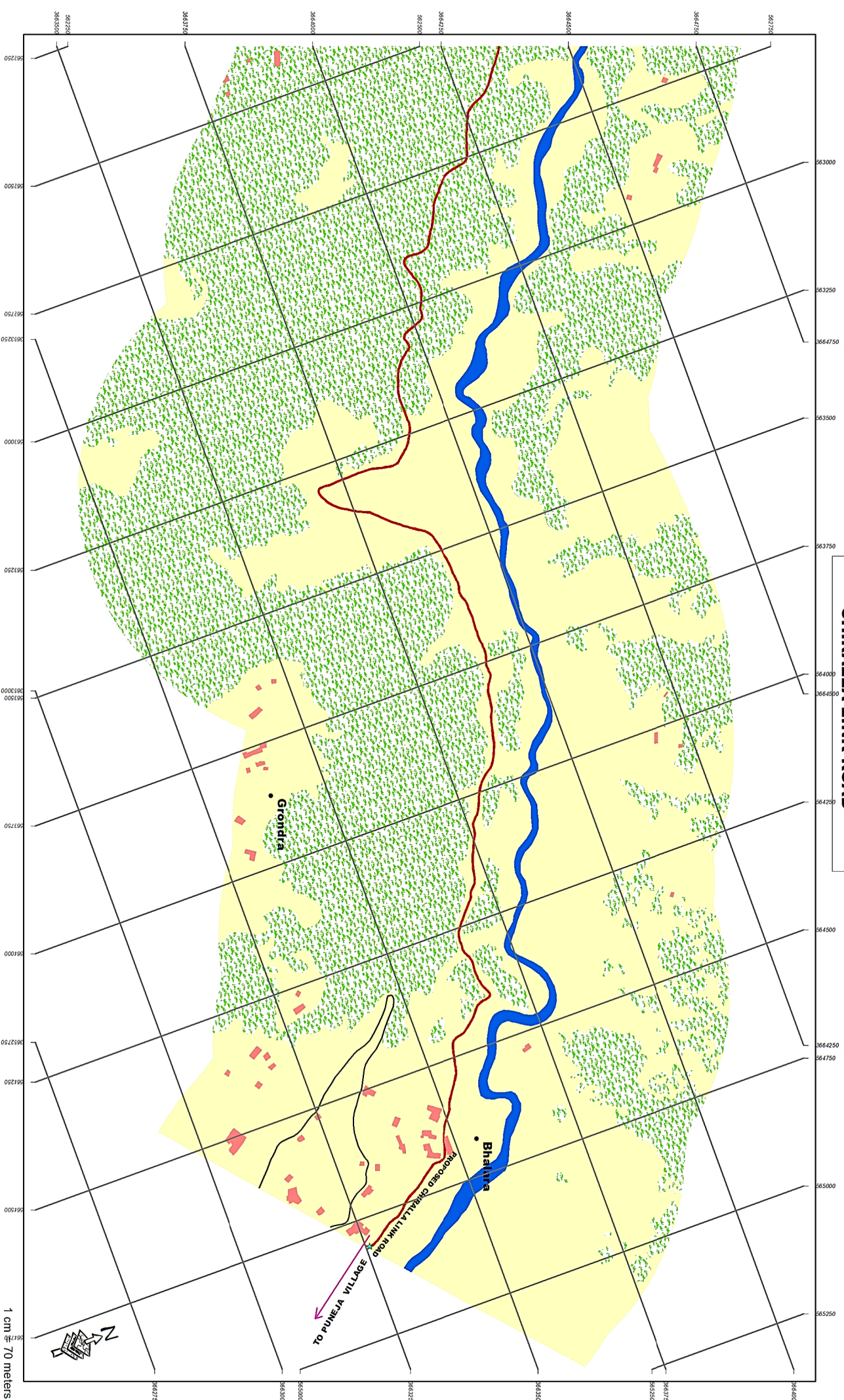
- Legend**
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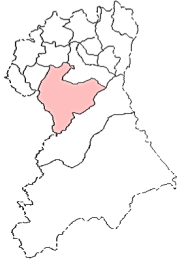
Project: JHELUM TAWI FLOOD RECOVERY PROJECT
Sub-Project: FOR RECONSTRUCTION OF CHIRALLA LINK ROAD UNDER JAMMU DIVISION
Agency: PROJECT MANAGEMENT UNIT JTFRP



CHIRALLA LINK ROAD



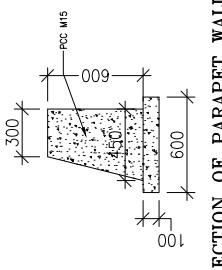
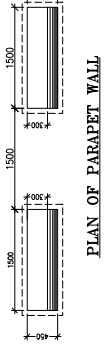
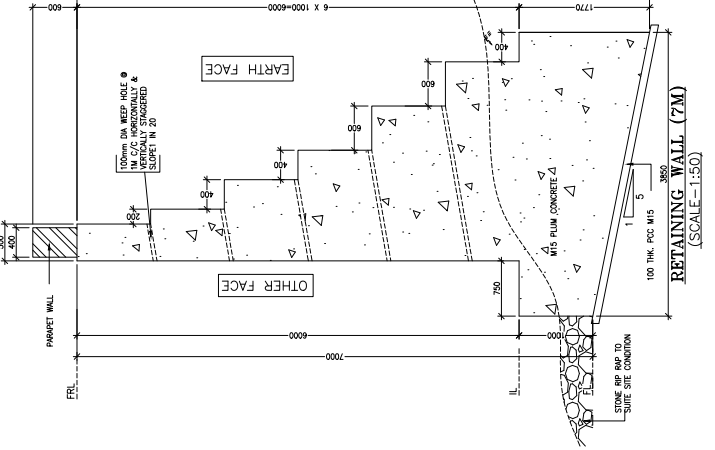
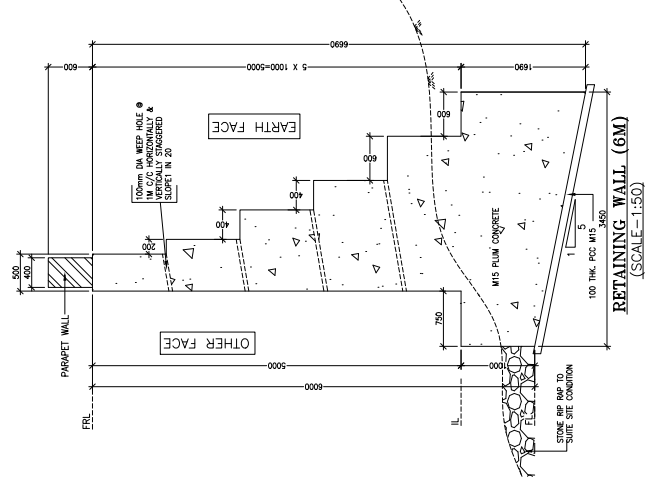
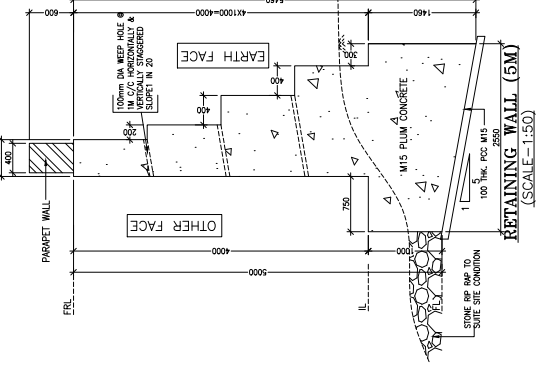
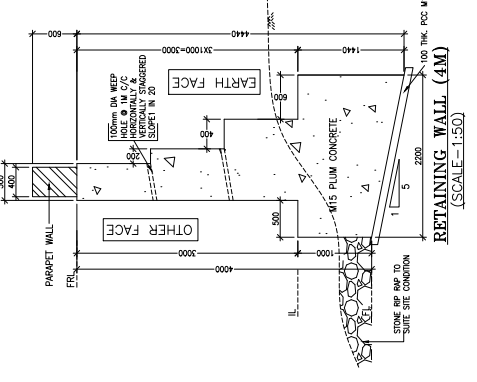
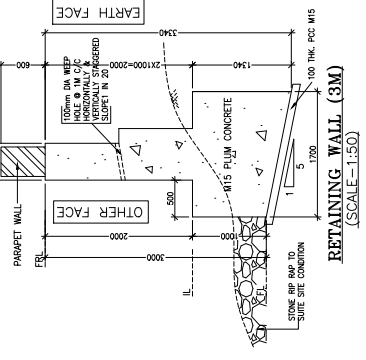
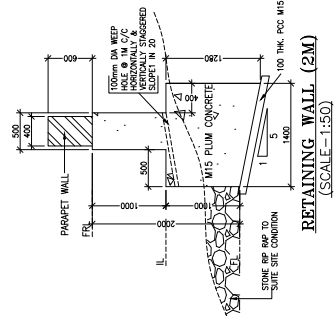
- Legend**
- ▲ Importance Landmark
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 - ⊙ Park
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 - Road Centerline
 - ▬ Proposed Road
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Project: JHELUM TAWI FLOOD RECOVERY PROJECT
Sub-Project: FOR RECONSTRUCTION OF CHIRALLA LINK ROAD UNDER JAMMU DIVISION
Agency: PROJECT MANAGEMENT UNIT JTFRP



DETAILS OF PCC RETAINING WALL



NOTES:-

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE MENTIONED.
2. DIMENSIONS SHALL BE FOLLOWED, UNLESS WRITTEN OTHERWISE.
3. 100mm DIA WEEP HOLE @ 1200mm C/C HORIZONTAL & VERTICALLY STAGGERED (SLOPE IN 20).
4. BACK FILLING AND FILLER MEDIA BEHIND THE RETAINING WALL SHALL BE PROVIDED WITH SELECTED EARTH CONFORMING TO APPENDIX 8 OF SPECIFICATIONS.
5. ALL REINFORCEMENT BARS SHALL BE PROVIDED WITH 10mm DIA WEEP HOLE @ 1200mm C/C HORIZONTAL & VERTICALLY STAGGERED (SLOPE IN 20).
6. ALL PLUMS SHALL BE HARD, DURABLE, CLEAN AND FREE FROM IMPURITIES. THEY SHALL NOT HAVE SHAPE OR TELESCOPIC SUBSTANCE IN THEM & SHALL NOT HAVE SPURS.

CONSTRUCTION OPERATIONS:

DURING CONCRETING THE FIRST LAYER OF CONCRETE OF THE PARAPET WALL SHALL BE LAID ON A 100mm THICK PCC M15 LAYER. THE TOP PORTION OF THIS CONCRETE IS STILL GREEN. THE PLUMS UNDER THEIR OWN WEIGHT THESE PLUMS SHALL BE EXPOSED TO AS TO FORM IN CONTACT WITH THE NEXT LAYER OF CONCRETE. NO PLUM SHALL BE USED FOR CONCRETE LAD UNDER WHILE PLACING THE PLUMS, CARE SHALL BE TAKEN TO SEE THAT THE CLEAR DISTANCE BETWEEN ANY TWO PLUMS IS NOT LESS THAN 100mm. THE PLUMS SHALL BE LAID ON THE OUTER SURFACE FROM THE PLUMS TO THE OTHER SURFACE FROM THE PLUMS. IF PLUMS OF STAGGERED CONCRETE ARE USED THEY SHALL BE LAID ON THEIR NATURAL BED STONES WITH CONCISE SPACES BETWEEN THE PLUMS. THE PLUMS SHALL BE LAID ON THE NEXT AND SUCCESSIVE LAYERS OF CONCRETE SHALL BE AT THE SAME LEVEL.

QUALITY OF PLUMS:

THE TOTAL VOLUME OF PLUMS SHALL NOT EXCEED 15% OF THE VOLUME OF THE FINISHED CONCRETE.

MIX OF CONCRETE:

PLUM CONCRETE: 1:2:4 (CEMENT : SAND : ORDERED STONE AGGREGATE) AS PER IS 456 PART 1 WITH 10% PLUM.

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
(Chiralla Link Road in Doda District)

DESIGN CONSULTANT: **epitsa** Eptisa Servicios de Ingenieria S.L.
Unit-1203, 12th Floor, Tower 1, PS Station
Corporate Park, Plot No. 2, Block EP & GP,
Sector-V, Salt Lake Kolkata - 700091,
West Bengal
Ph: 035-40347200
www.epitsa.com

REVISION: R-1

REV.	DATE	DESCRIPTION	SCALE	N.T.S

DRAWN BY: SD
DESIGNED BY: SKMM
APPROVED BY: KG

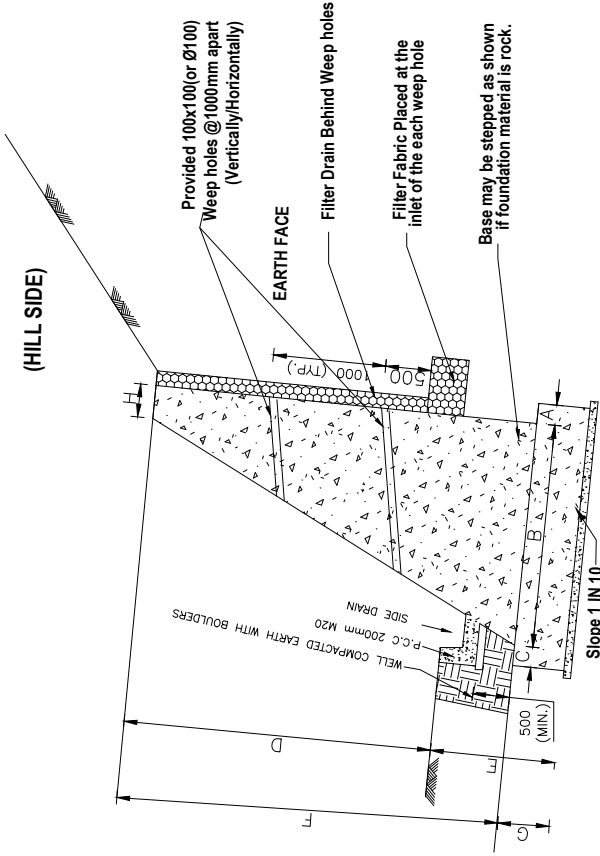
TITLE: DETAILS OF PCC RETAINING WALL

DRG. NO.: EPTISA/JTRP/DRP/R&K/RW-01
REVISION: R-1
DATE: September 2019

DETAILS OF BREAST WALL

NOTES:-

- 1) ALL DIMENSIONS IN MILLIMETERS AND LEVELS IN METERS UNLESS WRITTEN OTHERWISE.
- 2) NO DIMENSION SHALL BE SCALED FROM THIS DRAWING, ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
- 3) 1) GRADE OF PCC M20 (1:1.5:3)
- ii) STEEL-HSD AS PER IS 1786.
- 4) SKIN/SURFACE REINFORCEMENT SHALL BE PROVIDED AS PER B8 @ 200mm C/C FOR WALL HEIGHT $\geq 3m$ WITH MINIMUM CLEAR COVER OF 40mm.
- 5) THE SECTIONS ARE FOR GUIDANCE AND FOR ESTIMATION. EXACT STABILITY CALCULATIONS TO BE DONE WITH SITE PARAMETER.
- 6) BACK FILLING SHALL BE DONE AS PER APPENDIX-6 OF IRC:78
- 7) WEEP HOLES SHALL BE PROVIDED AT 1.0m c/c HORIZONTALLY AND VERTICALLY IN A STAGGERED MANNER.
- 8) LEVELLING COURSE BELOW SHOULD BE PROVIDED WITH SUITABLE OFFSET (0.15m Min.) TO RESTRICT BASE PRESSURE ON SOIL WITHIN PERMISSIBLE LIMITS.
- 9) WIDTH OF BASE SHALL BE INCREASED/DECREASED AS PER SEC REQUIREMENT.
- 10) THE PROPERTIES OF THE RETAINED EARTH/BACK FILL HAVE BEEN ASSUMED AS FOLLOWS:
 DRY DENSITY ----- 18 KN/m³
 ANGLE OF INTERNAL FRICTION ---- 30°
 ANGLE OF WALL FRICTION ----- 20°
 COHESION (c) = 0
- 11) FACTOR OF SAFETY FOR OVERTURNING IS 2.0 FOR NON SEISMIC CONDITION AND 1.5 FOR SEISMIC CONDITION.
- 12) WEEP HOLES SHALL BE PROVIDED IN MASONRY WALLS AT A SPACING OF 900MM IN EITHER DIRECTION.
- 13) SIZE OF PCC SHALL BE 100MM TO 150MM PCC.
- 14) IMPERVIOUS SILTY SOIL LAYER OR BACK FILL OF ABOUT 300MM ON THE TOP TO PREVENT SEEPAGE OF RAIN WATER IN THE BACKFILL OR IN FOUNDATION.
- 15) NATURAL GULLIES SHALL BE DIVERTED AWAY FROM THE SILT, SO THAT FLOW OF RAIN WATER DOES NOT CAUSE EROSION OF BREAST WALL ON TOPMOST TERRACE.
- 16) GRASS TURFING SHALL BE LAID ON THE GROUND SLOPE TO PREVENT EROSION.
- 17) SIDE WATER DRAINS SHALL BE AVOIDED NEAR THE TOP OF THE BREAST WALLS AS THEY ALLOW SEEPAGE OF WATER IN UNMAINTAINED CONDITIONS INTO THE OUT & DESTABILISE
- 18) SIDE WATER DRAINS TO BE PROVIDED AT THE TOE OF THE RETAINING WALLS
- 19) FOUNDATION TO BE 500MM BELOW THE SIDE DRAIN WITHIN SOIL OR HIGHLY JOINTED ROCK SIDE DRAIN
- 20) IN CASE SIDE DRAINS AT TOE OF THE RETAINING WALL ARE NOT PROVIDED THEN DRY STONE PITCHING OF SIZE 150MM, MAY BE LAID ON SLOPE FOR A DISTANCE OF 1MTS BELOW THE TOE OF THE RETAINING WALLS.
- 21) FOR ERODABLE SOILS AND WEAK FOUNDATIONS (CLAY, WEAK SAND ETC.) GABION WALLS SHALL BE PREFERRED AS THEY WITH STAND HIGH DIFFERENTIAL SETTLEMENTS.

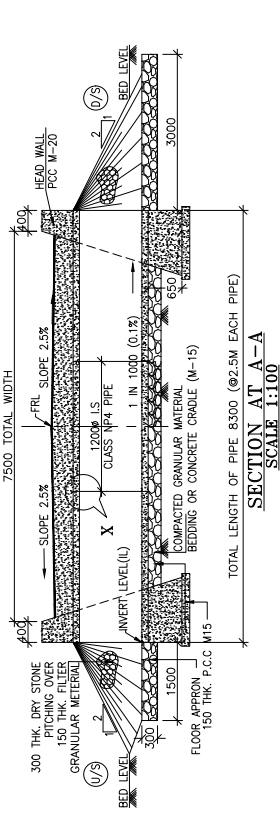


**TYPICAL CROSS SECTION OF BREAST WALL
(Embankment Section)**

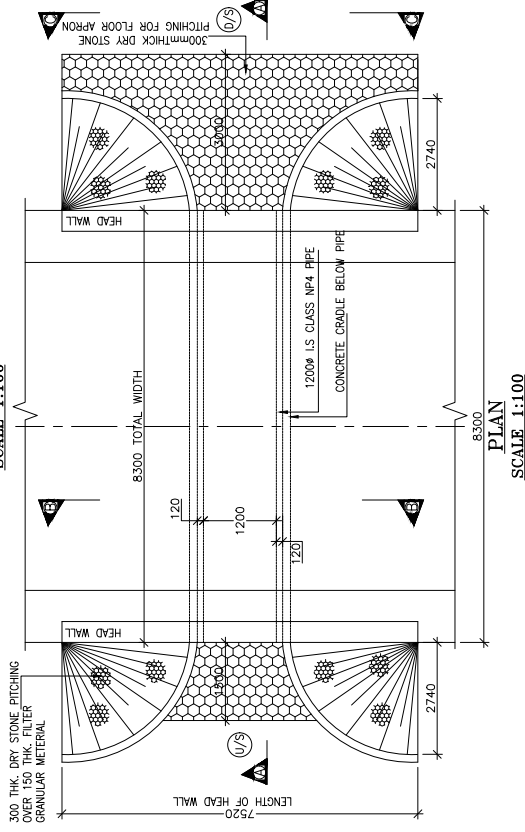
Sl no.	Total Height	1.75 m	2.25 m	2.75 m	3.25 m	3.75 m	4.25 m	4.75 m	5.25 m
1	A (in mm)	275	275	275	275	275	275	275	275
2	B (in mm)	990	1500	1740	1890	2250	2490	3018	3030
3	C (in mm)	275	275	275	275	275	275	275	275
4	D (in mm)	1000	1500	2000	2500	3000	3500	4000	4500
5	E (in mm)	750	750	750	750	750	750	750	750
6	F (in mm)	1250	1750	2150	2650	3150	3600	4100	4550
7	G (in mm)	500	500	600	600	600	650	650	700
8	H (in mm)	450	450	450	450	450	450	450	450
9	Base Pressure (in KN/m ²)	100	120	150	180	180	200	200	250

CLIENT:	PROJECT:	DESIGN CONSULTANT:	SCALE:	REV.	DATE	DESCRIPTION	REVISION
 Jhelum Tawi Flood Recovery Project 2nd Floor ERA Commercial Complex Rambagh Srinagar-180 009.	Consultancy Services for Preparing Detailed Project Report for the Road works in Jammu and Kashmir (Chiralla Link Road in Doda District)	 Eptisa Eptisa Servicios de Ingenieria 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	N.T.S R-1	SD SKMM KG	N.T.S R-1	DIMENSION DETAIL OF BREAST WALL	September 2019

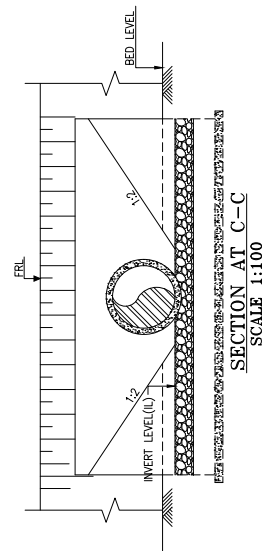
≡ CULVERT DRAWINGS ≡



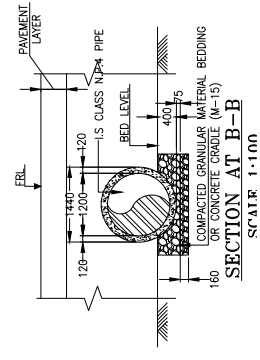
SECTION AT A-A
SCALE 1:100



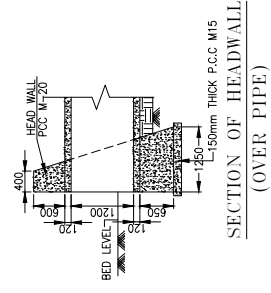
PLAN
SCALE 1:100



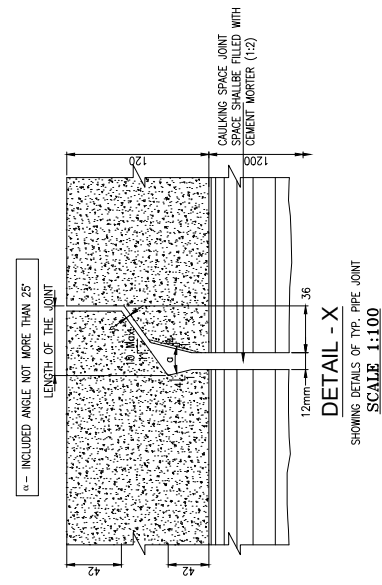
SECTION AT C-C
SCALE 1:100



SECTION AT B-B
SCALE 1:100



SECTION OF HEADWALL
(OVER PIPE)



DETAIL - X
SHOWING DETAILS OF TYP. PIPE JOINT
SCALE 1:100

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 D.W.G. DISCREPANCY, IF ANY, IS TO BE RECTIFIED 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.29/4.
6. LONGITUDINAL SLOPE OF WIDENED PIPE SHALL BE 1 : 100 (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-180 009.

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

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TITLE: TYPICAL GENERAL ARRANGEMENT DRAWING FOR SINGLE CELL PIPE CULVERT	PD
DRAWN BY:	SD
DESIGNED BY:	KG
APPROVED BY:	AS SHOWN
SCALE: AS SHOWN	REVISION: R-1
DRG. NO.: EPTISAJUTFRPDRJ&K(PIPE/GAD)01	DATE
REVISION: R-1	DESCRIPTION
SEPTEMBER 2019	