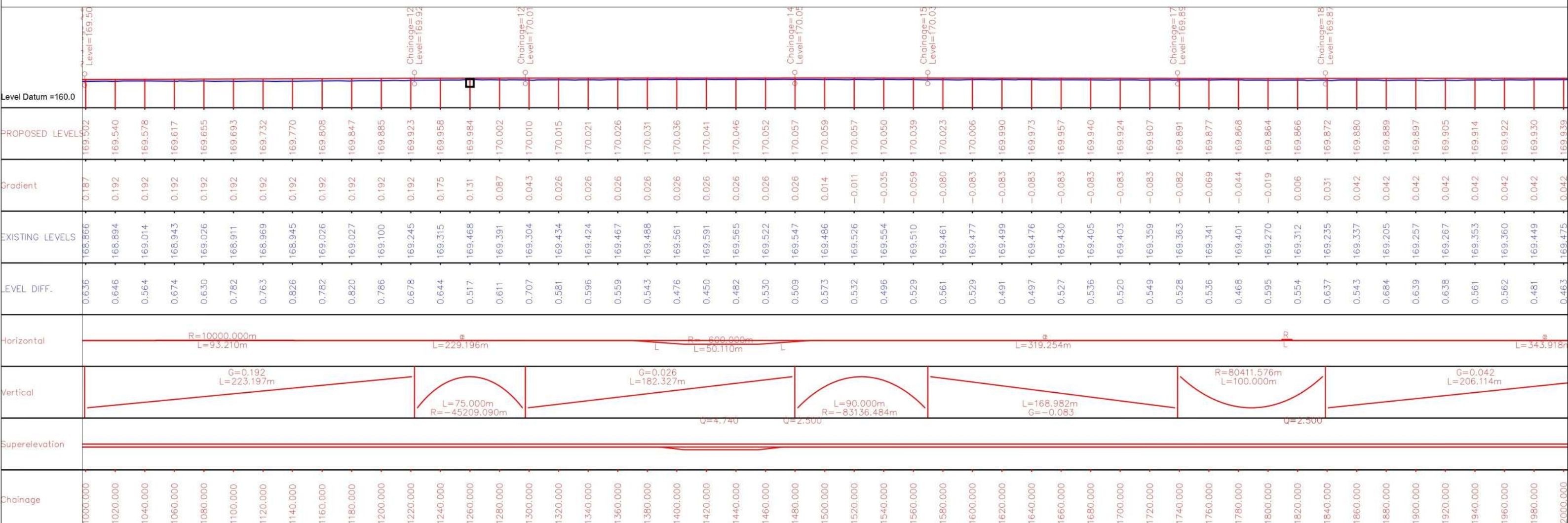
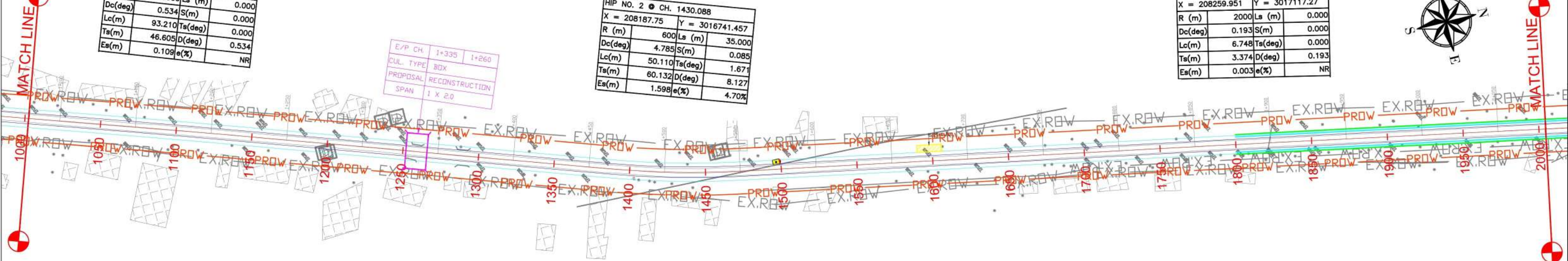


HIP NO. 1 @ CH. 1094.233			
X = 208080.296		Y = 3016423.252	
R (m)	10000	Ls (m)	0.000
Dc(deg)	0.534	S(m)	0.000
Lc(m)	93.210	Ts(deg)	0.000
Ts(m)	46.605	D(deg)	0.534
Es(m)	0.109	e(%)	NR

HIP NO. 2 @ CH. 1430.088			
X = 208187.75		Y = 3016741.457	
R (m)	600	Ls (m)	35.000
Dc(deg)	4.785	S(m)	0.085
Lc(m)	50.110	Ts(deg)	1.671
Ts(m)	60.132	D(deg)	8.127
Es(m)	1.598	e(%)	4.70%

HIP NO. 3 @ CH. 1812.771			
X = 208259.951		Y = 3017117.27	
R (m)	2000	Ls (m)	0.000
Dc(deg)	0.193	S(m)	0.000
Lc(m)	6.748	Ts(deg)	0.000
Ts(m)	3.374	D(deg)	0.193
Es(m)	0.003	e(%)	NR



NOTES:-
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NAME OF WORK

CONSULTANCY SERVICES FOR FEASIBILITY STUDY AND PREPARATION OF DPR FOR IMPROVEMENT AND UPGRADATION OF IN PRINCIPLE DECLARED NATIONAL HIGHWAYS IN THE STATE OF UTTAR PRADESH

PKG I

STRETCH FROM AGRA (JUNCTION ON NH - 509) NEAR ISLAM NAGAR TO NUHKHAS (Km. 0+000 to 51+600)

DRAWN BY	N.B
DESIGN BY	K.K
APPROVED BY	R.P

SHEET: 2

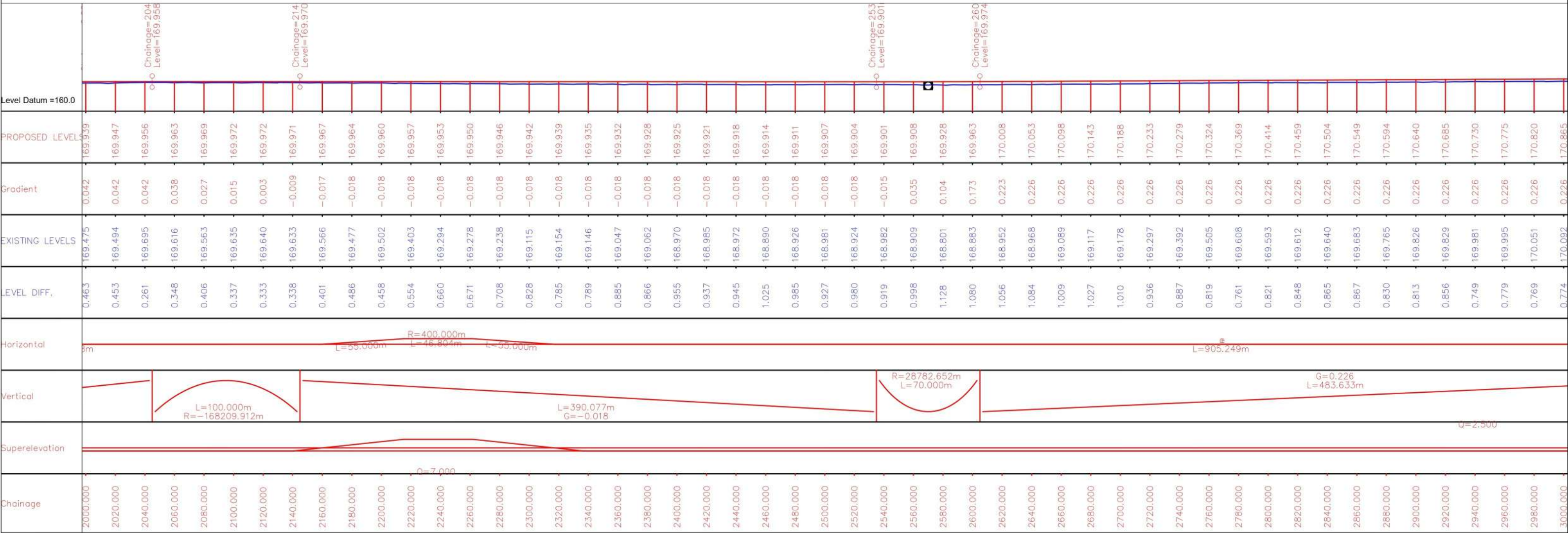
DEC : 2021

SIZE : A3

DRAWING NO : LNM/DL/UP/DWG/P&P

TITLE:-

(Km. 1+000 to Km. 2+000)



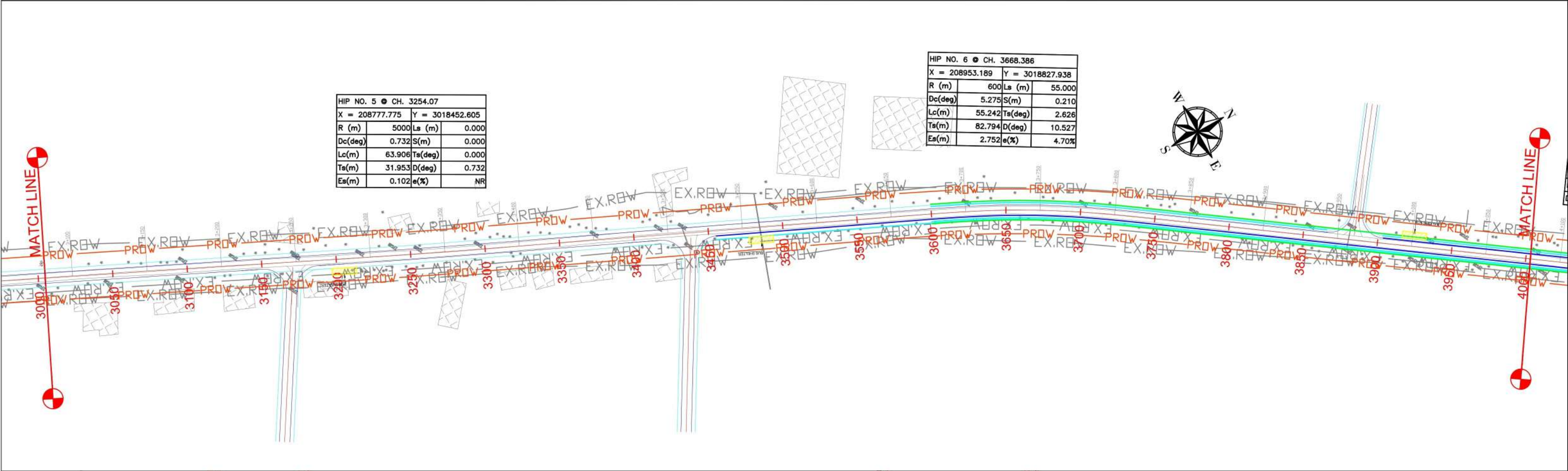
NOTES:-
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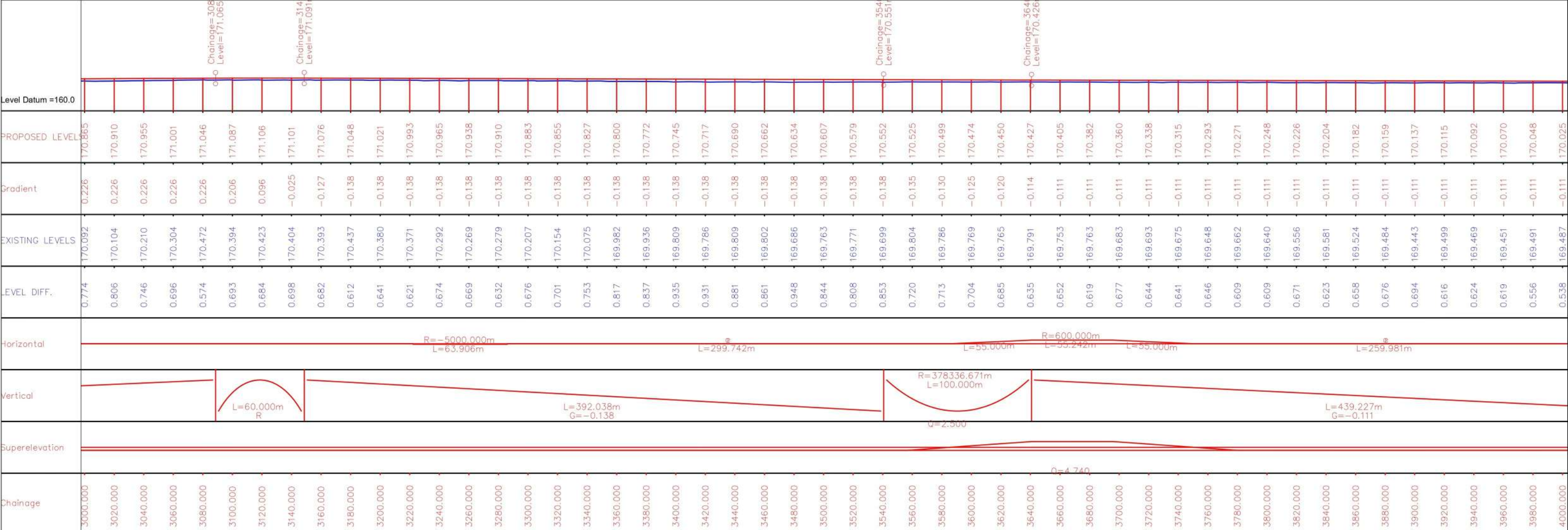
HEAD OFFICE :-
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New Delhi-11007



HIP NO. 5 ● CH. 3254.07			
X = 208777.775		Y = 3018452.605	
R (m)	5000	La (m)	0.000
Dc(deg)	0.732	S(m)	0.000
Lc(m)	63.906	Ts(deg)	0.000
Ts(m)	31.953	D(deg)	0.732
Es(m)	0.102	e(%)	NR

HIP NO. 6 ● CH. 3668.386			
X = 208953.189		Y = 3018827.938	
R (m)	600	La (m)	55.000
Dc(deg)	5.275	S(m)	0.210
Lc(m)	55.242	Ts(deg)	2.626
Ts(m)	82.794	D(deg)	10.527
Es(m)	2.752	e(%)	4.70%



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NAME OF WORK

CONSULTANCY SERVICES FOR FEASIBILITY STUDY AND PREPARATION OF
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NATIONAL HIGHWAYS IN THE STATE OF UTTAR PRADESH
PKG I
STRETCH FROM AGRA (JUNCTION ON NH - 509) NEAR ISLAM NAGAR TO
NUHKHAS (Km. 0+000 to 51+600)

DRAWN BY	N.B
DESIGN BY	K.K
APPROVED BY	R.P

SHEET: **4**

DEC : 2021

SIZE : A3

DRAWING NO : LNM/DL/UP/DWG/P&P

TITLE:-

(Km. 3+000 to Km. 4+000)

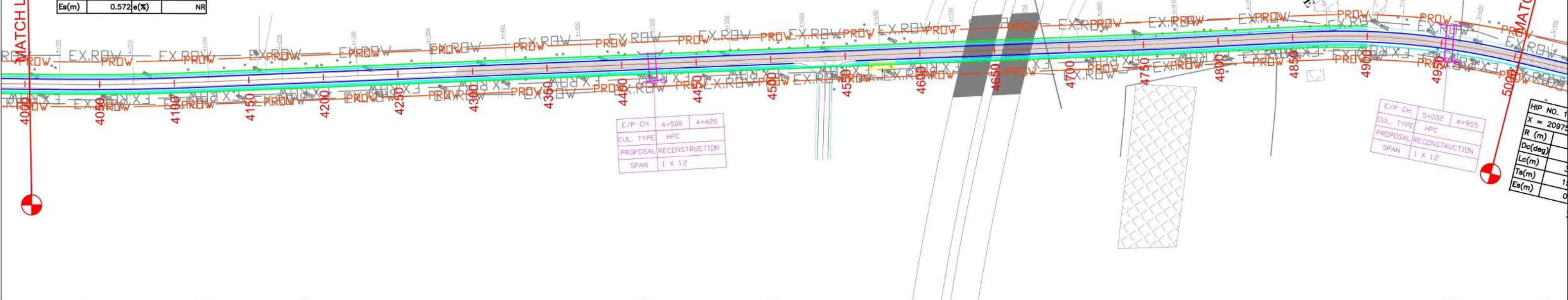
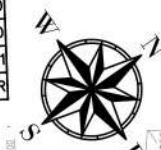
HIP NO. 7 ● CH. 4070.512				
X = 209183.477		Y = 3019157.579		
R (m)	1800	La (m)	30.000	
Dc(deg)	1.879	S(m)	0.021	
Lc(m)	59.046	Ts(deg)	0.477	
Ts(m)	59.532	D(deg)	2.834	
Es(m)	0.572	e(%)	NR	

HIP NO. 8 ● CH. 4580.99				
X = 209457.666		Y = 3019588.17		
R (m)	2000	La (m)	0.000	
Dc(deg)	0.124	S(m)	0.000	
Lc(m)	4.343	Ts(deg)	0.000	
Ts(m)	2.171	D(deg)	0.124	
Es(m)	0.001	e(%)	NR	

HIP NO. 9 ● CH. 4766.22				
X = 209557.396		Y = 3019744.261		
R (m)	1200	La (m)	0.000	
Dc(deg)	0.651	S(m)	0.000	
Lc(m)	13.634	Ts(deg)	0.000	
Ts(m)	6.817	D(deg)	0.651	
Es(m)	0.019	e(%)	NR	

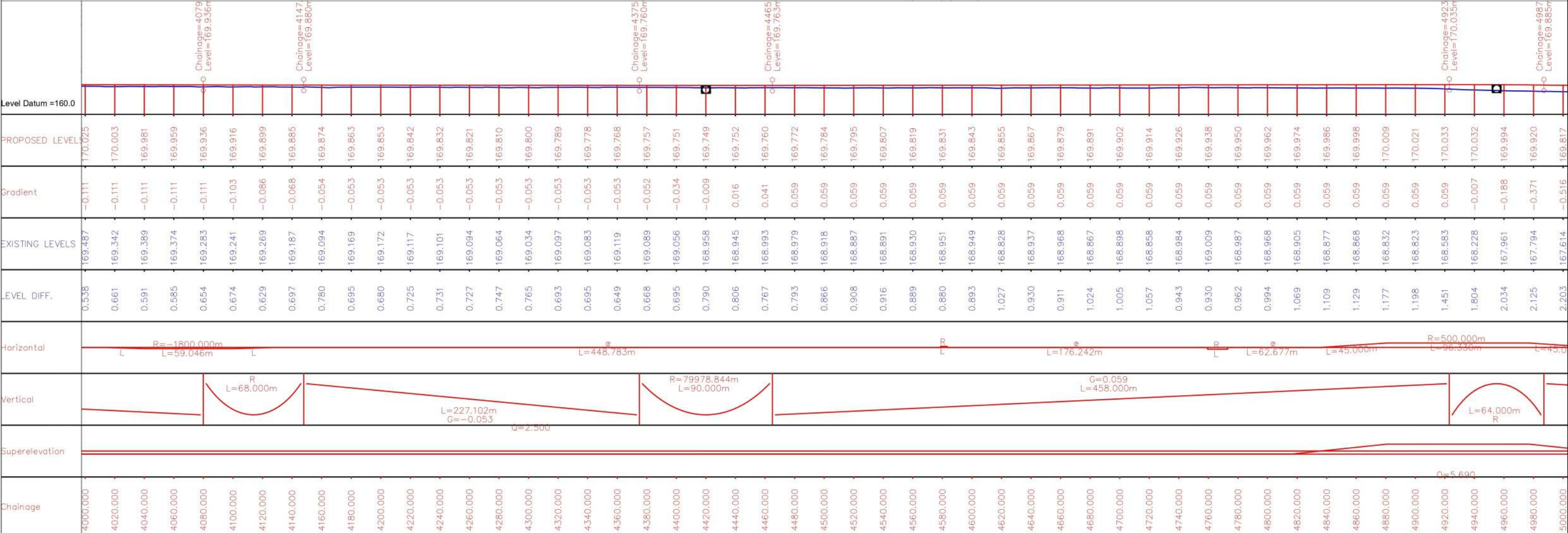
HIP NO. 10 ● CH. 4928.879				
X = 209645.876		Y = 3019880.889		
R (m)	500	La (m)	45.000	
Dc(deg)	11.039	S(m)	0.169	
Lc(m)	96.330	Ts(deg)	2.578	
Ts(m)	93.662	D(deg)	16.195	
Es(m)	5.206	e(%)	5.70%	

HIP NO. 11 ● CH. 5000.000				
X = 209745.876		Y = 3019980.889		
R (m)	500	La (m)	45.000	
Dc(deg)	11.039	S(m)	0.169	
Lc(m)	96.330	Ts(deg)	2.578	
Ts(m)	93.662	D(deg)	16.195	
Es(m)	5.206	e(%)	5.70%	



E/P CH.	4+500	4+420
CUL. TYPE	HPC	
PROPOSAL	RECONSTRUCTION	
SPAN	1 X 12	

E/P CH.	5+032	4+955
CUL. TYPE	HPC	
PROPOSAL	RECONSTRUCTION	
SPAN	1 X 12	



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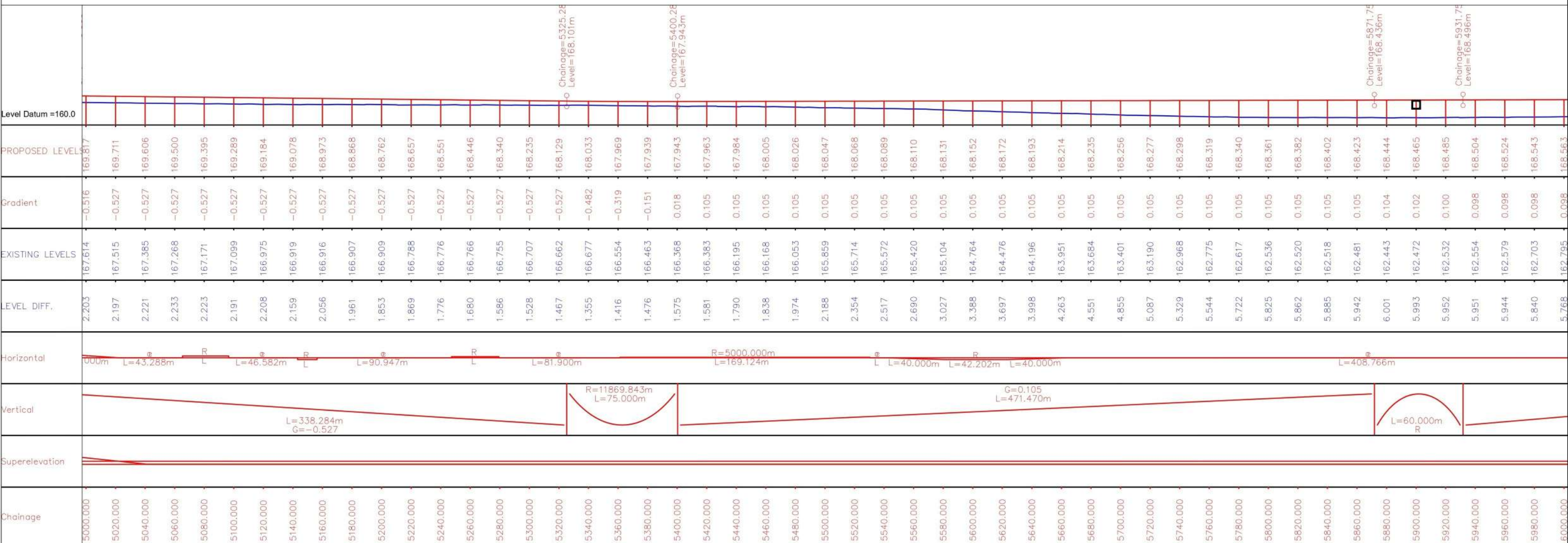
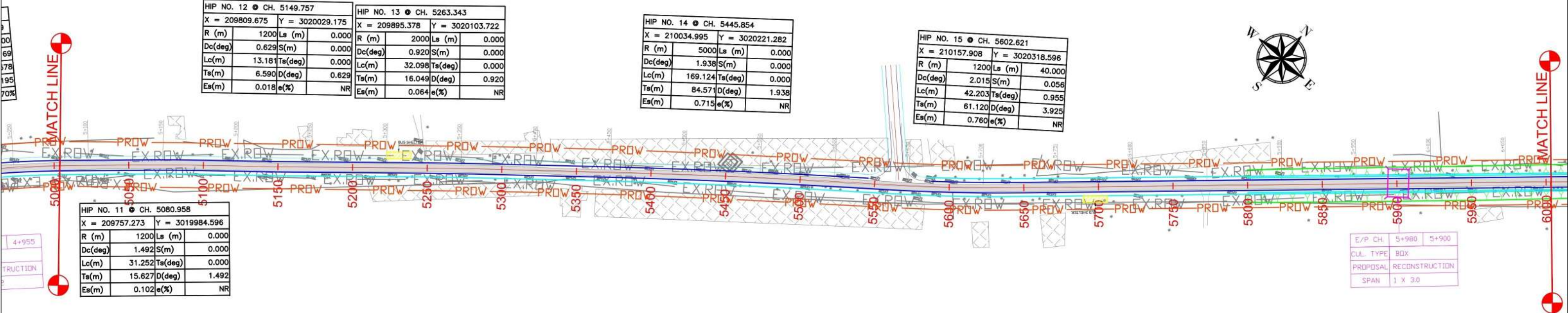
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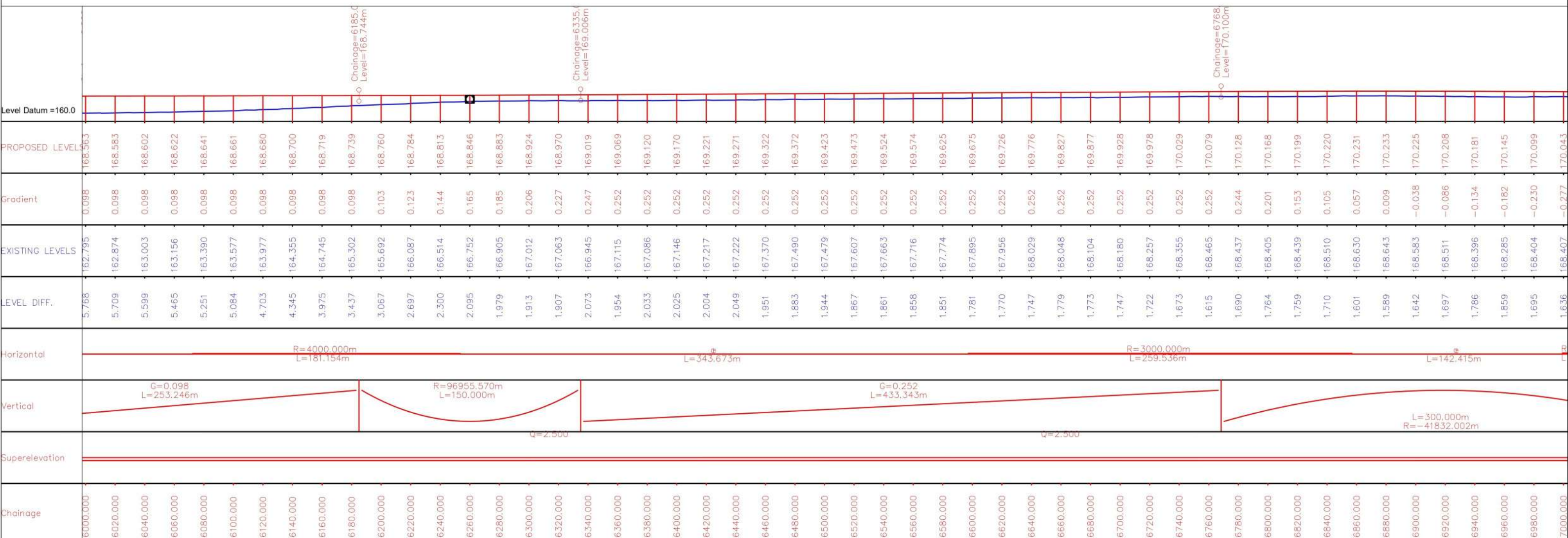
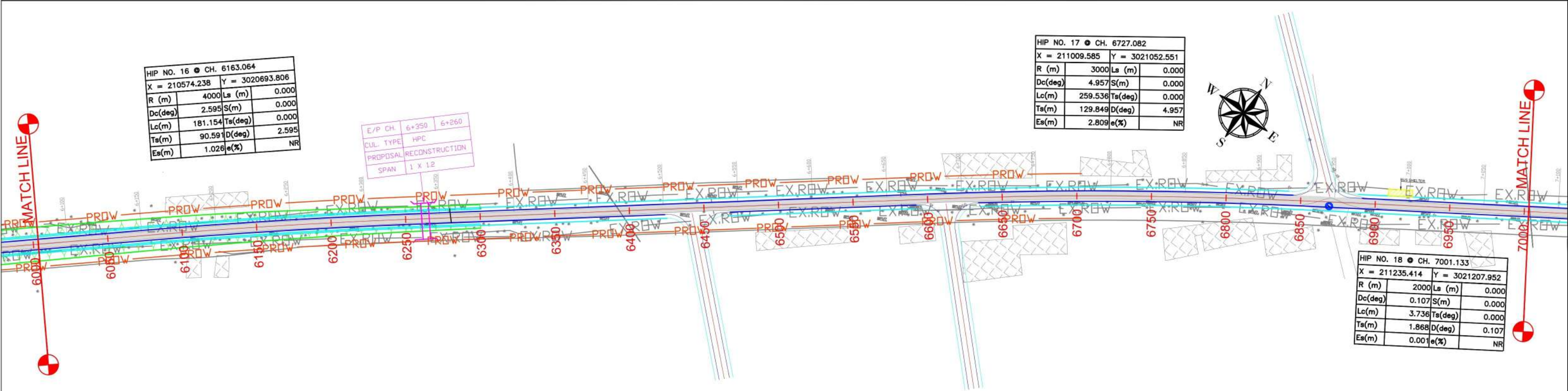
CONSULTANCY SERVICES FOR FEASIBILITY STUDY AND PREPARATION OF DPR FOR IMPROVEMENT AND UPGRADATION OF IN PRINCIPLE DECLARED NATIONAL HIGHWAYS IN THE STATE OF UTTAR PRADESH

PKG I

STRETCH FROM AGRA (JUNCTION ON NH - 509) NEAR ISLAM NAGAR TO NUHKHAS (Km. 0+000 to 51+600)

DRAWN BY	N.B
DESIGN BY	K.K





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Station Dwarka Sector

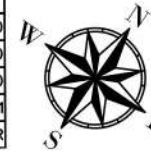
HIP NO. 19 ● CH. 7078.445				
X = 211299.185		Y = 3021251.66		
R (m)	2000	La (m)	0.000	
Dc(deg)	0.641	S(m)	0.000	
Lc(m)	22.370	Ts(deg)	0.000	
Ts(m)	11.185	D(deg)	0.641	
Es(m)	0.031	e(%)	NR	

HIP NO. 20 ● CH. 7299.682				
X = 211480.264		Y = 3021378.769		
R (m)	1200	La (m)	0.000	
Dc(deg)	0.722	S(m)	0.000	
Lc(m)	15.119	Ts(deg)	0.000	
Ts(m)	7.560	D(deg)	0.722	
Es(m)	0.024	e(%)	NR	

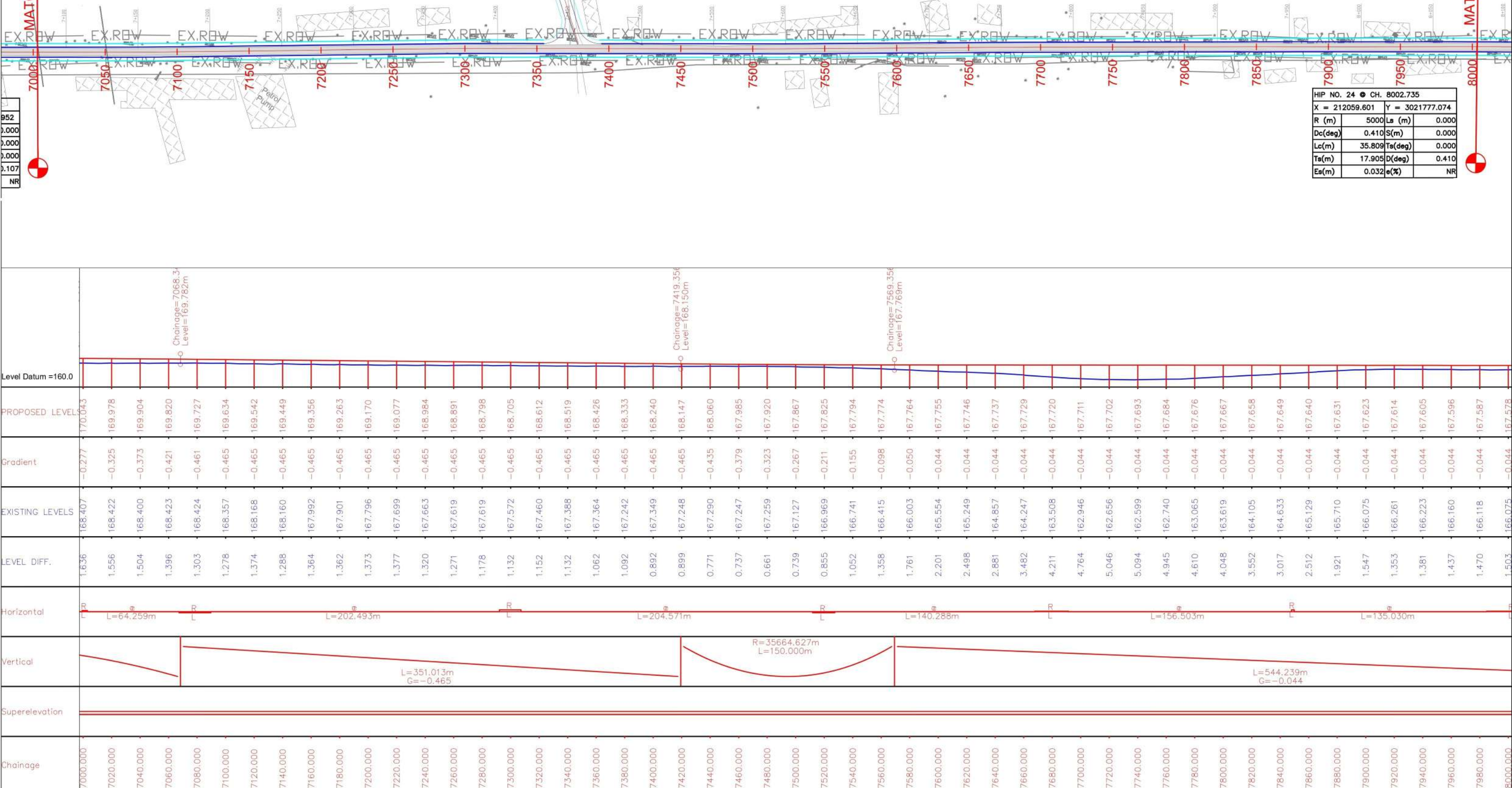
HIP NO. 21 ● CH. 7519.644				
X = 211661.875		Y = 3021502.866		
R (m)	2000	La (m)	0.000	
Dc(deg)	0.449	S(m)	0.000	
Lc(m)	15.661	Ts(deg)	0.000	
Ts(m)	7.831	D(deg)	0.449	
Es(m)	0.015	e(%)	NR	

HIP NO. 22 ● CH. 7679.584				
X = 211793.221		Y = 3021594.133		
R (m)	5000	La (m)	0.000	
Dc(deg)	0.271	S(m)	0.000	
Lc(m)	23.646	Ts(deg)	0.000	
Ts(m)	11.823	D(deg)	0.271	
Es(m)	0.014	e(%)	NR	

HIP NO. 23 ● CH. 7848.855				
X = 211932.683		Y = 3021690.064		
R (m)	1200	La (m)	0.000	
Dc(deg)	0.090	S(m)	0.000	
Lc(m)	1.888	Ts(deg)	0.000	
Ts(m)	0.944	D(deg)	0.090	
Es(m)	0.000	e(%)	NR	



HIP NO. 24 ● CH. 8002.735				
X = 212059.601		Y = 3021777.074		
R (m)	5000	La (m)	0.000	
Dc(deg)	0.410	S(m)	0.000	
Lc(m)	35.809	Ts(deg)	0.000	
Ts(m)	17.905	D(deg)	0.410	
Es(m)	0.032	e(%)	NR	



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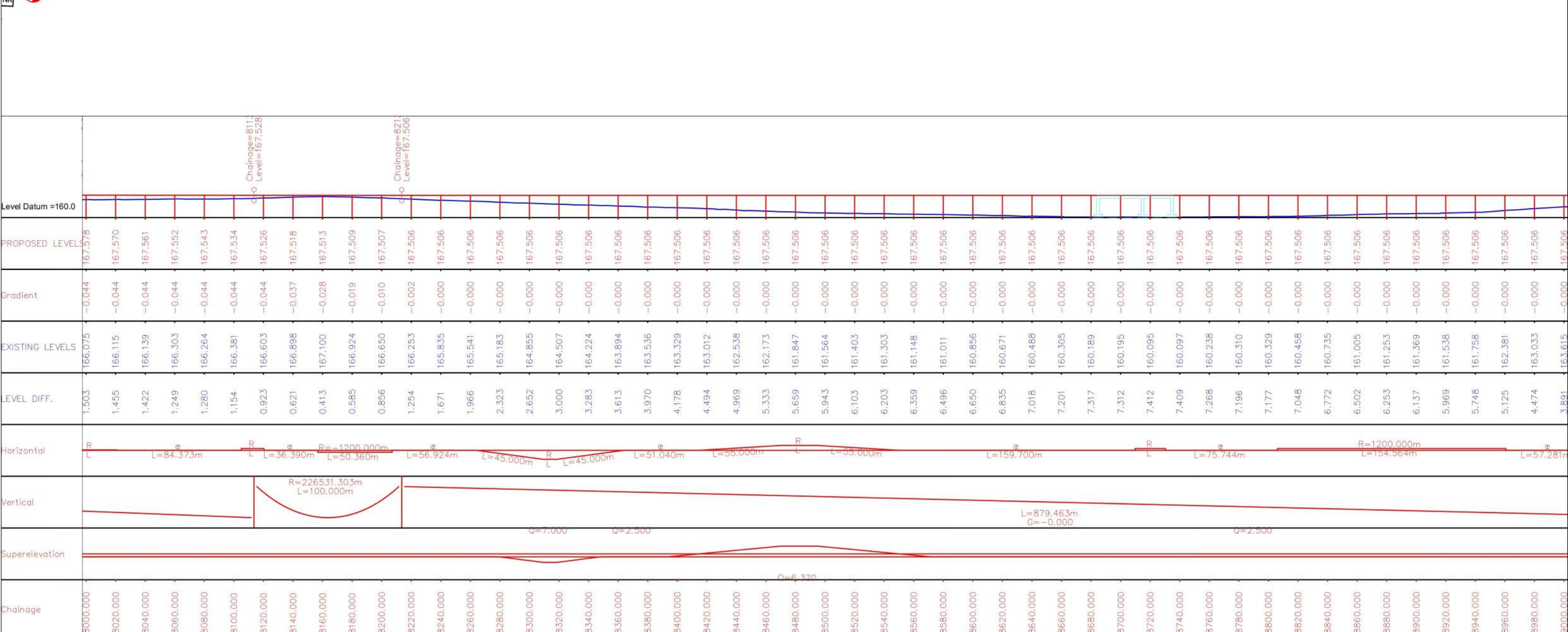
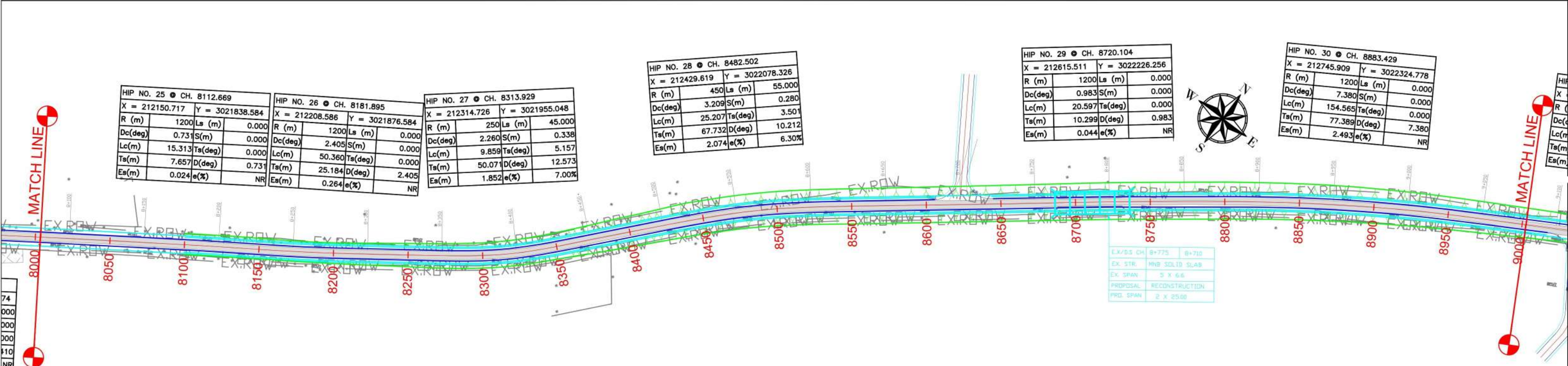
CORPORATE OFFICE :-
Plot No.29, 2nd Floor Near Metro
Station Dwarka Sector 11,
New Delhi-110075,
E-mail:- delhilnm@gmail.com

NAME OF WORK

CONSULTANCY SERVICES FOR FEASIBILITY STUDY AND PREPARATION OF
DPR FOR IMPROVEMENT AND UPGRADATION OF IN PRINCIPLE DECLARED
NATIONAL HIGHWAYS IN THE STATE OF UTTAR PRADESH
PKG I
STRETCH FROM AGRA (JUNCTION ON NH - 509) NEAR ISLAM NAGAR TO
NUHKHAS (Km. 0+000 to 51+600)

DRAWN BY	N.B
DESIGN BY	K.K
APPROVED BY	R.P

SHEET: 8	TITLE:- (Km. 7+000 to Km. 8+000)
DEC : 2021	
SIZE : A3	
DRAWING NO : LNM/DL/UP/DWG/P&P	



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DRAWN BY N.B.

DESIGN BY K.K.

APPROVED BY R.P.

SHEET: 9

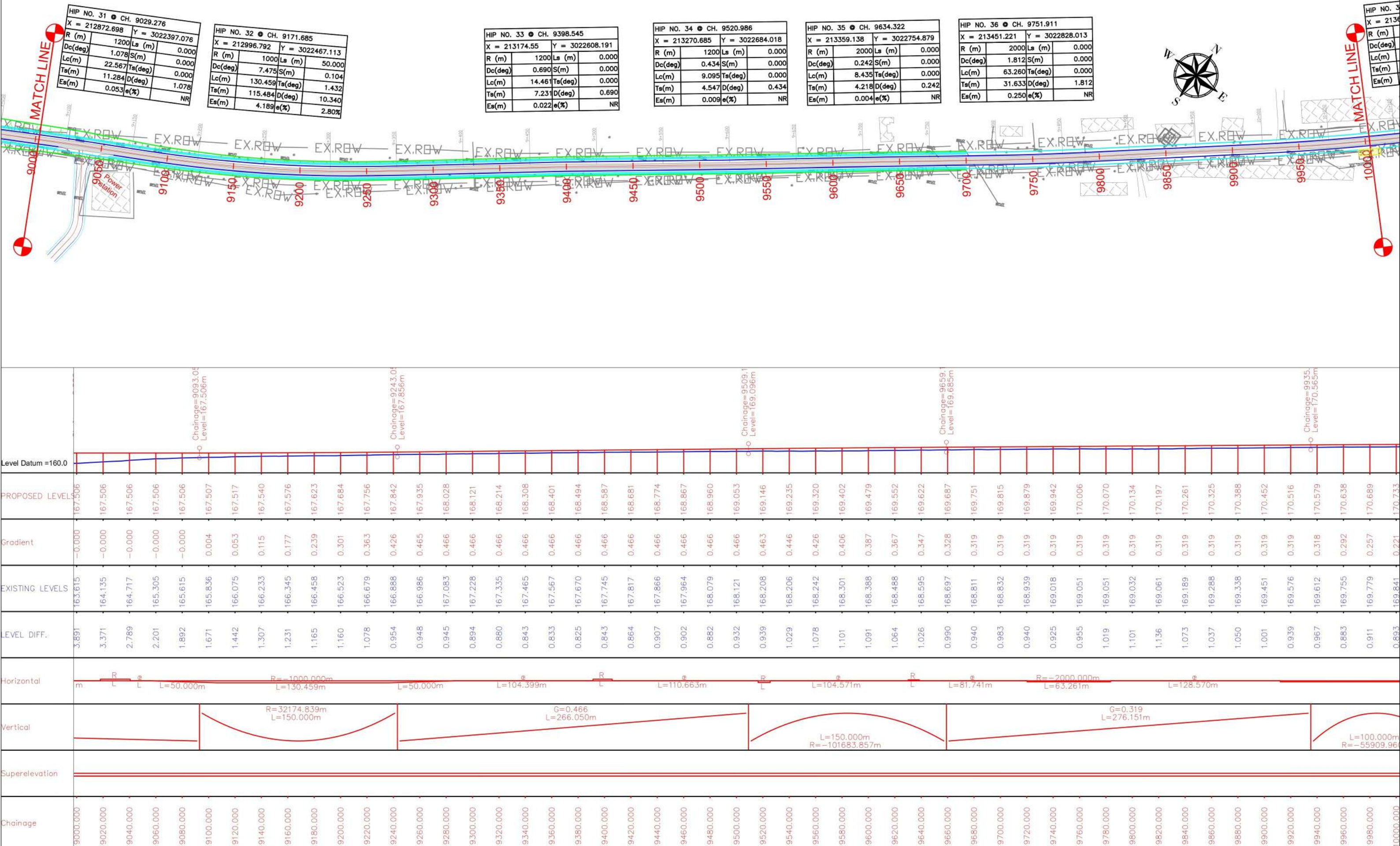
DEC : 2021

SIZE : A3

DRAWING NO : LNM/DL/UP/DWG/P&P

TITLE:-

(Km. 8+000 to Km. 9+000)



HIP NO. 37 ● CH. 10026.761			
X = 213661.033		Y = 3023005.754	
R (m)	2000	La (m)	0.000
Dc(deg)	6.569	S(m)	0.000
Lc(m)	229.299	Ts(deg)	0.000
Ts(m)	114.776	D(deg)	6.569
Es(m)	3.291	e(%)	NR

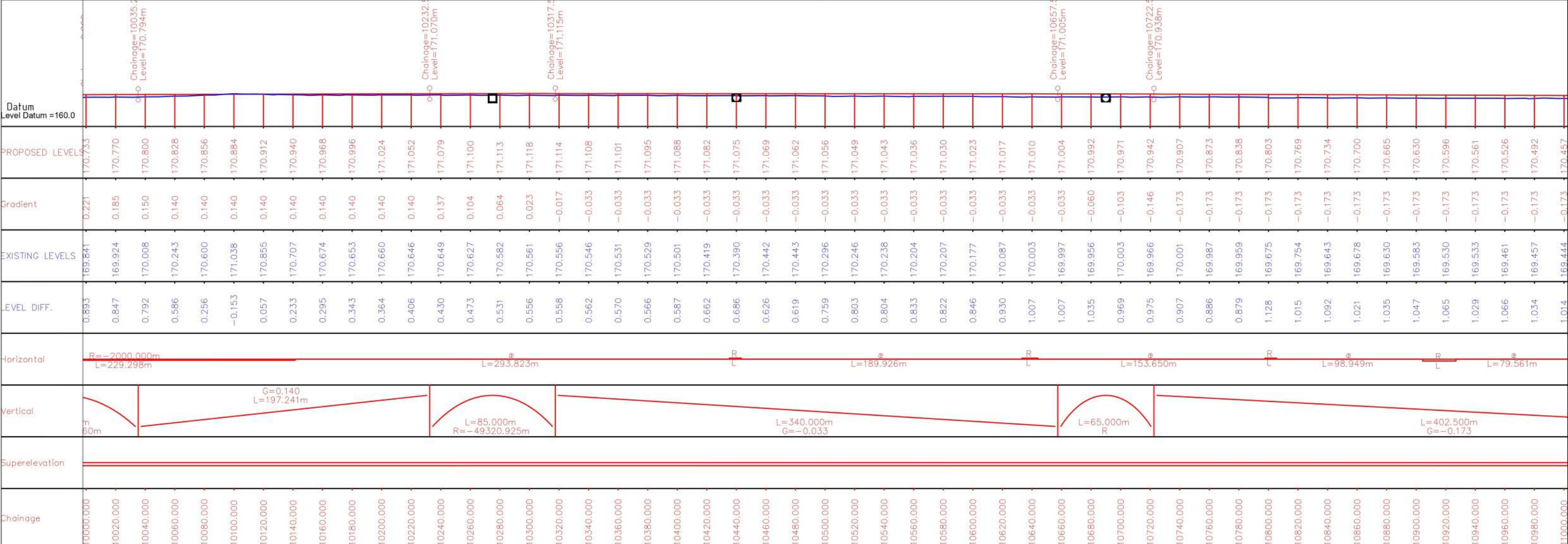
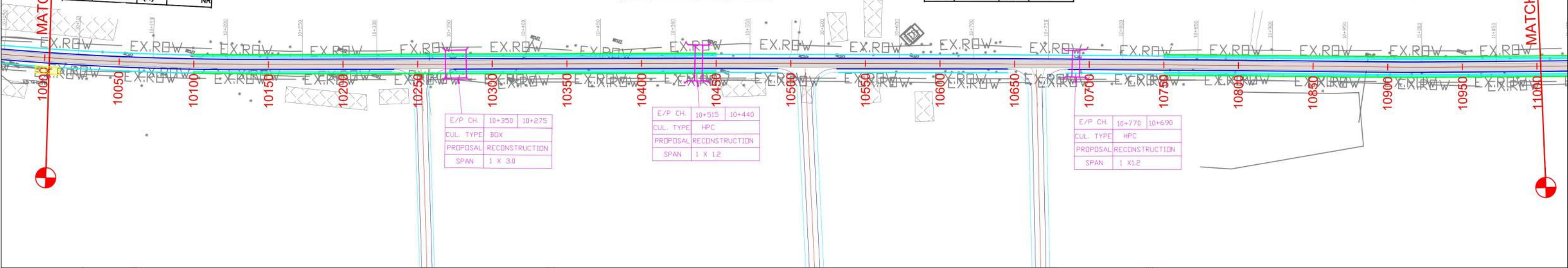
HIP NO. 38 ● CH. 10439.28			
X = 213943.307		Y = 3023306.748	
R (m)	2000	La (m)	0.000
Dc(deg)	0.232	S(m)	0.000
Lc(m)	8.094	Ts(deg)	0.000
Ts(m)	4.047	D(deg)	0.232
Es(m)	0.004	e(%)	NR

HIP NO. 39 ● CH. 10638.626			
X = 214080.259		Y = 3023451.603	
R (m)	2000	La (m)	0.000
Dc(deg)	0.308	S(m)	0.000
Lc(m)	10.746	Ts(deg)	0.000
Ts(m)	5.373	D(deg)	0.308
Es(m)	0.007	e(%)	NR



HIP NO. 40 ● CH. 10801.538			
X = 214192.815		Y = 3023569.38	
R (m)	2000	La (m)	0.000
Dc(deg)	0.223	S(m)	0.000
Lc(m)	7.780	Ts(deg)	0.000
Ts(m)	3.890	D(deg)	0.223
Es(m)	0.004	e(%)	NR

HIP NO. 41 ● CH. 10915.652			
X = 214271.977		Y = 3023651.572	
R (m)	1200	La (m)	0.000
Dc(deg)	1.077	S(m)	0.000
Lc(m)	22.550	Ts(deg)	0.000
Ts(m)	11.276	D(deg)	1.077
Es(m)	0.053	e(%)	NR



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PKG I
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DRAWN BY	N.B
DESIGN BY	K.K
APPROVED BY	R.P

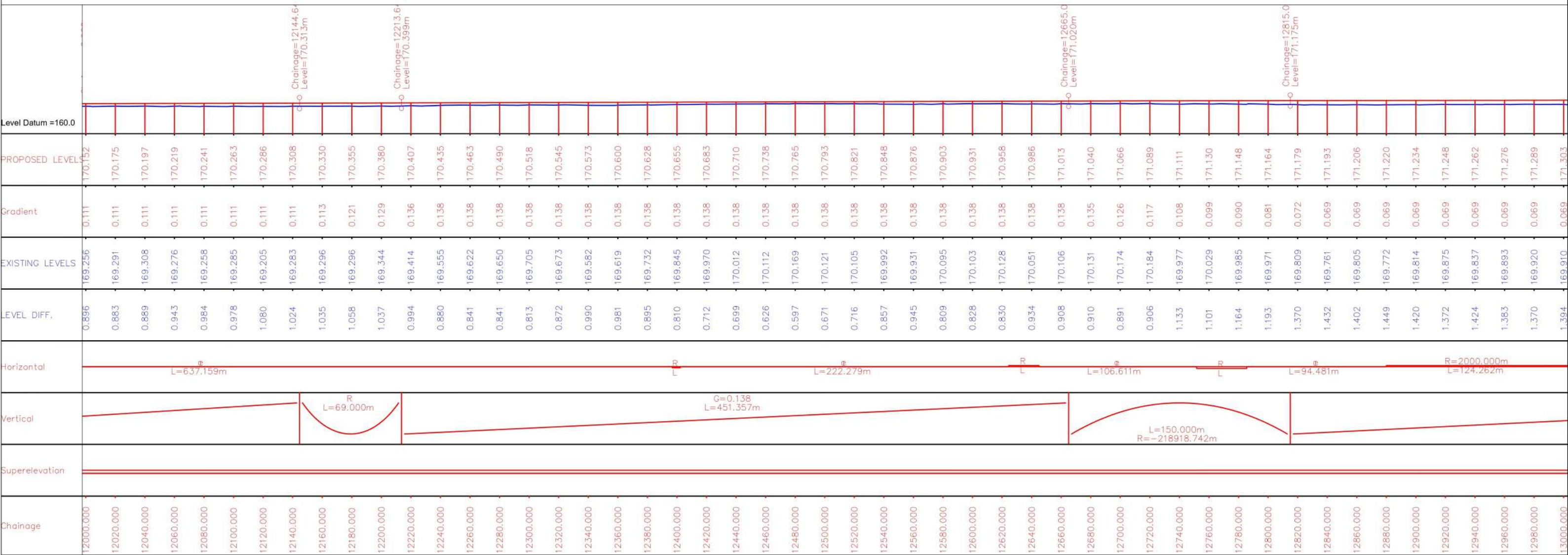
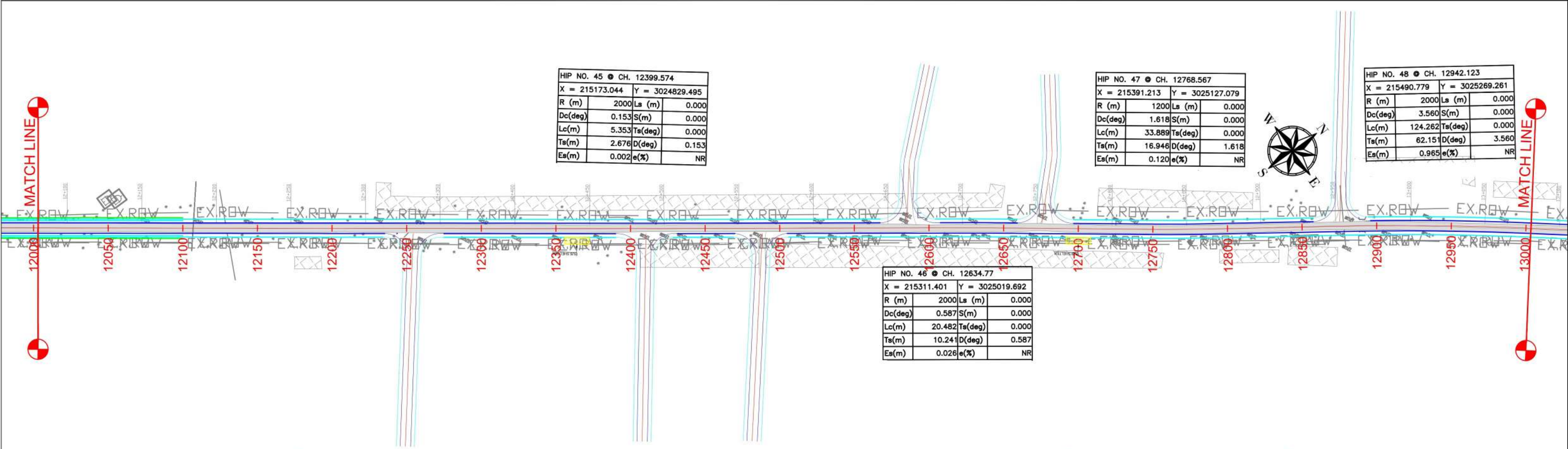
SHEET: **11**

DEC : 2021

SIZE : A3

DRAWING NO : LNM/DL/UP/DWG/P&P

TITLE:-
(Km. 10+000 to Km. 11+000)



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PKG I
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DRAWN BY	N.B
DESIGN BY	K.K
APPROVED BY	R.P

SHEET: **13**

DEC : 2021

SIZE : A3

DRAWING NO : LNM/DL/UP/DWG/P&P

TITLE:-

(Km. 12+000 to Km. 13+000)

261
1,000
1,000
1,000
1,560
NR

MATCH LINE

13000

13050

13100

13150

13200

13250

13300

13350

13400

13450

13500

13550

13600

13650

13700

13750

13800

13850

13900

13950

14000

14050

14100

14150

14200

14250

14300

14350

14400

14450

14500

14550

14600

14650

14700

14750

14800

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14900

14950

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15250

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15400

15450

15500

15550

15600

15650

15700

15750

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15850

15900

15950

16000

16050

16100

16150

16200

16250

16300

16350

16400

16450

16500

16550

16600

16650

16700

16750

16800

16850

16900

16950

17000

17050

17100

17150

17200

17250

17300

17350

HIP NO. 52 ● CH. 14046.389				
X = 216163.984		Y = 3026144.048		
R (m)	2000	Ls (m)	0.000	
Dc(deg)	0.283	S(m)	0.000	
Lc(m)	9.886	Ts(deg)	0.000	
Ts(m)	4.943	D(deg)	0.283	
Es(m)	0.006	e(%)	NR	

HIP NO. 53 ● CH. 14244.662				
X = 216275.355		Y = 3026308.087		
R (m)	5000	Ls (m)	0.000	
Dc(deg)	0.808	S(m)	0.000	
Lc(m)	70.502	Ts(deg)	0.000	
Ts(m)	35.251	D(deg)	0.808	
Es(m)	0.124	e(%)	NR	

HIP NO. 54 ● CH. 14592.076				
X = 216466.427		Y = 3026598.24		
R (m)	2000	Ls (m)	0.000	
Dc(deg)	1.113	S(m)	0.000	
Lc(m)	38.864	Ts(deg)	0.000	
Ts(m)	19.433	D(deg)	1.113	
Es(m)	0.094	e(%)	NR	

HIP NO. 55 ● CH. 14705.606				
X = 216530.697		Y = 3026691.828		
R (m)	1200	Ls (m)	0.000	
Dc(deg)	0.753	S(m)	0.000	
Lc(m)	15.762	Ts(deg)	0.000	
Ts(m)	7.881	D(deg)	0.753	
Es(m)	0.026	e(%)	NR	

HIP NO. 56 ● CH. 14823.074				
X = 216598.463		Y = 3026787.78		
R (m)	1200	Ls (m)</		

HIP NO. 57 ● CH. 15017.464			
X = 216714.708		Y = 3026943.644	
R (m)	3000	Ls (m)	0.000
Dc(deg)	4.187	S(m)	0.000
Lc(m)	219.210	Ts(deg)	0.000
Ts(m)	109.654	D(deg)	4.187
Es(m)	2.003	e(%)	NR

HIP NO. 58 ● CH. 15276.297			
X = 216884.217		Y = 3027139.314	
R (m)	2000	Ls (m)	0.000
Dc(deg)	0.575	S(m)	0.000
Lc(m)	20.084	Ts(deg)	0.000
Ts(m)	10.042	D(deg)	0.575
Es(m)	0.025	e(%)	NR

HIP NO. 59 ● CH. 15328.561			
X = 216918.833		Y = 3027178.47	
R (m)	1200	Ls (m)	0.000
Dc(deg)	0.253	S(m)	0.000
Lc(m)	5.302	Ts(deg)	0.000
Ts(m)	2.651	D(deg)	0.253
Es(m)	0.003	e(%)	NR

HIP NO. 61 ● CH. 15446.987			
X = 216996.801		Y = 3027267.609	
R (m)	2000	Ls (m)	0.000
Dc(deg)	0.416	S(m)	0.000
Lc(m)	14.525	Ts(deg)	0.000
Ts(m)	7.262	D(deg)	0.416
Es(m)	0.013	e(%)	NR

HIP NO. 62 ● CH. 15700.325			
X = 217162.052		Y = 3027459.631	
R (m)	5000	Ls (m)	0.000
Dc(deg)	0.411	S(m)	0.000
Lc(m)	35.898	Ts(deg)	0.000
Ts(m)	17.950	D(deg)	0.411
Es(m)	0.032	e(%)	NR



HIP NO. 65 ● CH. 16068.939				HIP NO. 66 ● CH. 16175.037			
X = 217404.664		Y = 3027737.144		X = 217474.088		Y = 3027817.374	
R (m)	1200	Ls (m)	0.000	R (m)	2000	Ls (m)	0.000
Dc(deg)	0.575	S(m)	0.000	Dc(deg)	0.235	S(m)	0.000
Lc(m)	12.050	Ts(deg)	0.000	Lc(m)	8.191	Ts(deg)	0.000
Ts(m)	6.025	D(deg)	0.575	Ts(m)	4.095	D(deg)	0.235
Es(m)	0.015	e(%)	NR	Es(m)	0.004	e(%)	NR

HIP NO. 67 ● CH. 16552.74				HIP NO. 68 ● CH. 16617.149				HIP NO. 70 ● CH. 16723.014				HIP NO. 71 ● CH. 16801.48			
X = 217722.405		Y = 3028101.977		X = 217764.962		Y = 3028150.322		X = 217834.143		Y = 3028230.453		X = 217885.008		Y = 3028290.198	
R (m)	2000	Ls (m)	0.000	R (m)	2000	Ls (m)	0.000	R (m)	5000	Ls (m)	0.000	R (m)	2000	Ls (m)	0.000
Dc(deg)	0.252	S(m)	0.000	Dc(deg)	0.101	S(m)	0.000	Dc(deg)	0.007	S(m)	0.000	Dc(deg)	0.023	S(m)	0.000
Lc(m)	8.794	Ts(deg)	0.000	Lc(m)	3.515	Ts(deg)	0.000	Lc(m)	0.568	Ts(deg)	0.000	Lc(m)	0.809	Ts(deg)	0.000
Ts(m)	4.397	D(deg)	0.252	Ts(m)	1.757	D(deg)	0.101	Ts(m)	0.285	D(deg)	0.007	Ts(m)	0.404	D(deg)	0.023
Es(m)	0.005	e(%)	NR	Es(m)											

HIP NO. 73 ● CH. 17055.215			
X = 218049.737		Y = 3028483.2	
R (m)	800	Ls (m)	30.000
Dc(deg)	4.008	S(m)	0.047
Lc(m)	55.960	Ts(deg)	1.074
Ts(m)	58.024	D(deg)	6.156
Es(m)	1.203	e(%)	3.60%

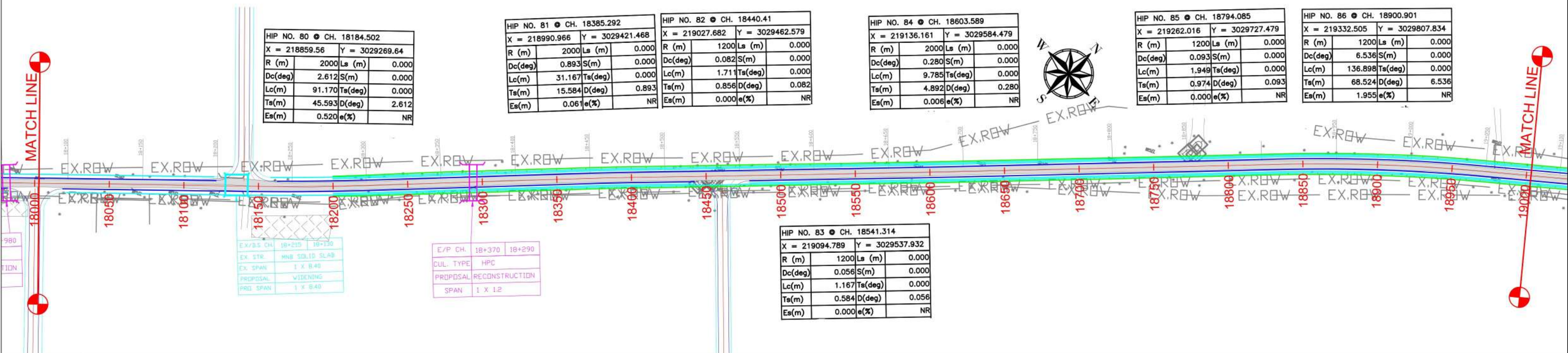
HIP NO. 74 ● CH. 17236.794			
X = 218180.794		Y = 3028608.888	
R (m)	2000	Ls (m)	0.000
Dc(deg)	0.892	S(m)	0.000
Lc(m)	31.131	Ts(deg)	0.000
Ts(m)	15.566	D(deg)	0.892
Es(m)	0.061	e(%)	NR

HIP NO. 75 ● CH. 17383.784			
X = 218288.845		Y = 3028708.543	
R (m)	1200	Ls (m)	0.000
Dc(deg)	0.326	S(m)	0.000
Lc(m)	6.827	Ts(deg)	0.000
Ts(m)	3.413	D(deg)	0.326
Es(m)	0.005	e(%)	NR

HIP NO. 76 ● CH. 17520.644			
X = 218388.92		Y = 3028801.901	
R (m)	2000	Ls (m)	0.000
Dc(deg)	0.496	S(m)	0.000
Lc(m)	17.313	Ts(deg)	0.000
Ts(m)	8.656	D(deg)	0.496
Es(m)	0.019	e(%)	NR

HIP NO. 77 ● CH. 17592.416			
X = 218441.823		Y = 3028850.404	
R (m)	1200	Ls (m)	0.000
Dc(deg)	0.416	S(m)	0.000
Lc(m)	8.706	Ts(deg)	0.000
Ts(m)	4.353	D(deg)	0.416
Es(m)	0.008	e(%)	NR

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HIP NO. 87 ● CH. 19147.225			
X = 219515.031		Y = 3029973.371	
R (m)	2000	Ls (m)	0.000
Dc(deg)	2.962	S(m)	0.000
Lc(m)	103.392	Ts(deg)	0.000
Ts(m)	51.708	D(deg)	2.962
Es(m)	0.668	e(%)	NR

HIP NO. 88 ● CH. 19285.9			
X = 219612.81		Y = 3030071.724	
R (m)	2000	Ls (m)	0.000
Dc(deg)	1.556	S(m)	0.000
Lc(m)	54.313	Ts(deg)	0.000
Ts(m)	27.159	D(deg)	1.556
Es(m)	0.184	e(%)	NR

HIP NO. 89 ● CH. 19441.213			
X = 219725.263		Y = 3030178.855	
R (m)	2000	Ls (m)	0.000
Dc(deg)	0.449	S(m)	0.000
Lc(m)	15.671	Ts(deg)	0.000
Ts(m)	7.835	D(deg)	0.449
Es(m)	0.015	e(%)	NR

HIP NO. 90 ● CH. 19577.8			
X = 219823.416		Y = 3030273.84	
R (m)	2000	Ls (m)	0.000
Dc(deg)	0.285	S(m)	0.000
Lc(m)	9.952	Ts(deg)	0.000
Ts(m)	4.976	D(deg)	0.285
Es(m)	0.006	e(%)	NR

HIP NO. 91 ● CH. 19805.861			
X = 219988.098		Y = 3030431.629	
R (m)	1200	Ls (m)	0.000
Dc(deg)	3.589	S(m)	0.000
Lc(m)	75.174	Ts(deg)	0.000
Ts(m)	37.599	D(deg)	3.589
Es(m)	0.589	e(%)	NR



HIP NO. 93	CH. 20078.258
X = 220373.485	Y = 3030844.208
R (m)	350
Dc(deg)	12.600
Lc(m)	76.966
Ta(m)	68.919
Es(m)	4.235
S(m)	0.107
Ts(deg)	2.456
D(deg)	17.511
e(%)	7.00%

HIP NO. 94	CH. 20517.642
X = 220500.84	Y = 3030918.551
R (m)	1200
Dc(deg)	3.266
Lc(m)	68.410
Ta(m)	34.214
Es(m)	0.488
S(m)	0.000
Ts(deg)	0.000
D(deg)	3.266
e(%)	NR



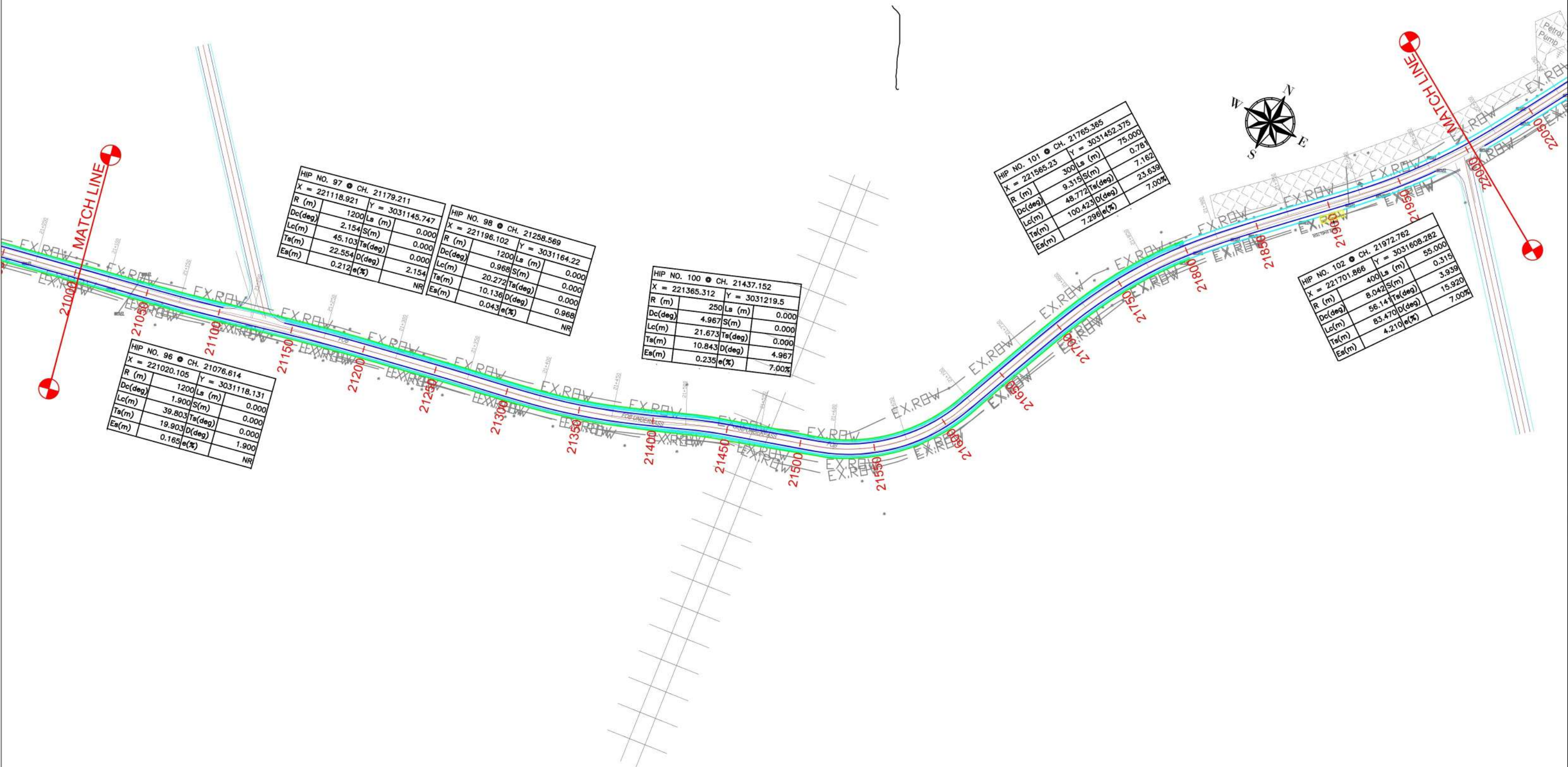
HIP NO. 95	CH. 20844.832
X = 220795.265	Y = 3031061.476
R (m)	600
Dc(deg)	9.143
Lc(m)	95.740
Ta(m)	83.139
Es(m)	3.664
S(m)	35.000
Ts(deg)	0.085
D(deg)	12.485
e(%)	4.70%

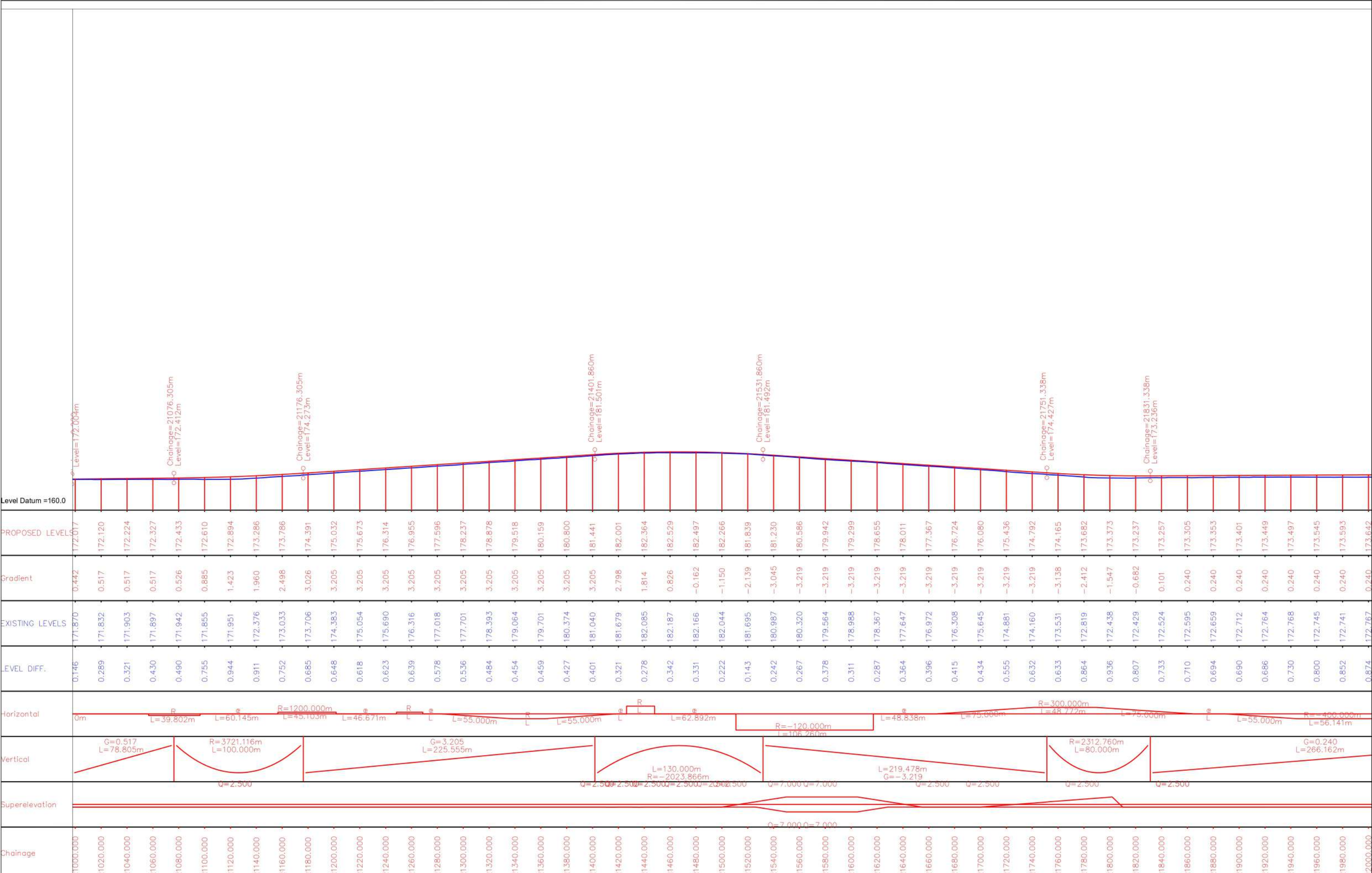
HIP NO. 92	CH. 20078.258
X = 220172.608	Y = 3030632.035
R (m)	2000
Dc(deg)	0.390
Lc(m)	13.603
Ta(m)	6.802
Es(m)	0.012
S(m)	0.000
Ts(deg)	0.390
D(deg)	NR
e(%)	NR

E/P CH.	20+430	20+350
CUL. TYPE	HPC	
PROPOSAL	RECONSTRUCTION	
SPAN	1 X 1.2	

E/P CH.	20+650	20+580
CUL. TYPE	HPC	
PROPOSAL	RECONSTRUCTION	
SPAN	1 X 1.2	

E/P CH.	20+920	20+845
CUL. TYPE	HPC	
PROPOSAL	WIDENING	
SPAN	1 X 0.9	





NOTES:-
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CLIENT

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NAME OF WORK

CONSULTANCY SERVICES FOR FEASIBILITY STUDY AND PREPARATION OF
DPR FOR IMPROVEMENT AND UPGRADATION OF IN PRINCIPLE DECLARED
NATIONAL HIGHWAYS IN THE STATE OF UTTAR PRADESH
PKG I
STRETCH FROM AGRA (JUNCTION ON NH - 509) NEAR ISLAM NAGAR TO
NUHKHAS (Km. 0+000 to 51+600)

DRAWN BY	N.B	
DESIGN BY	K.K	
APPROVED BY	R.P	

SHEET: 22

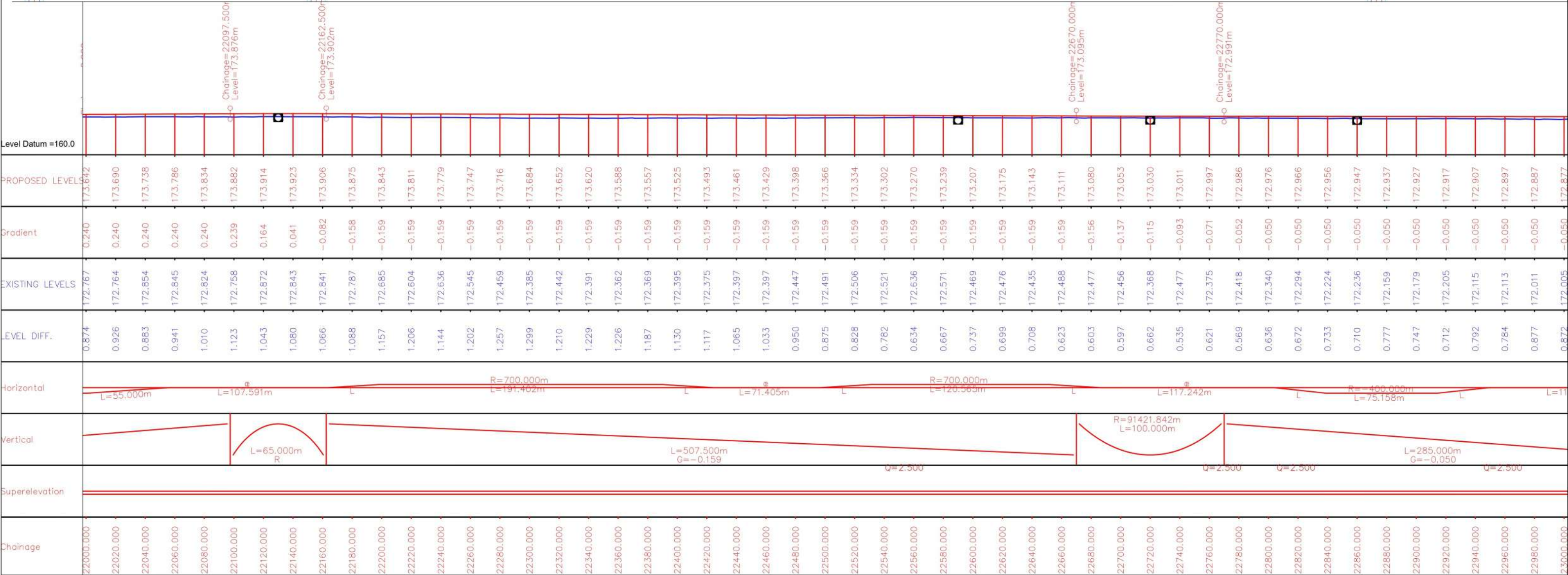
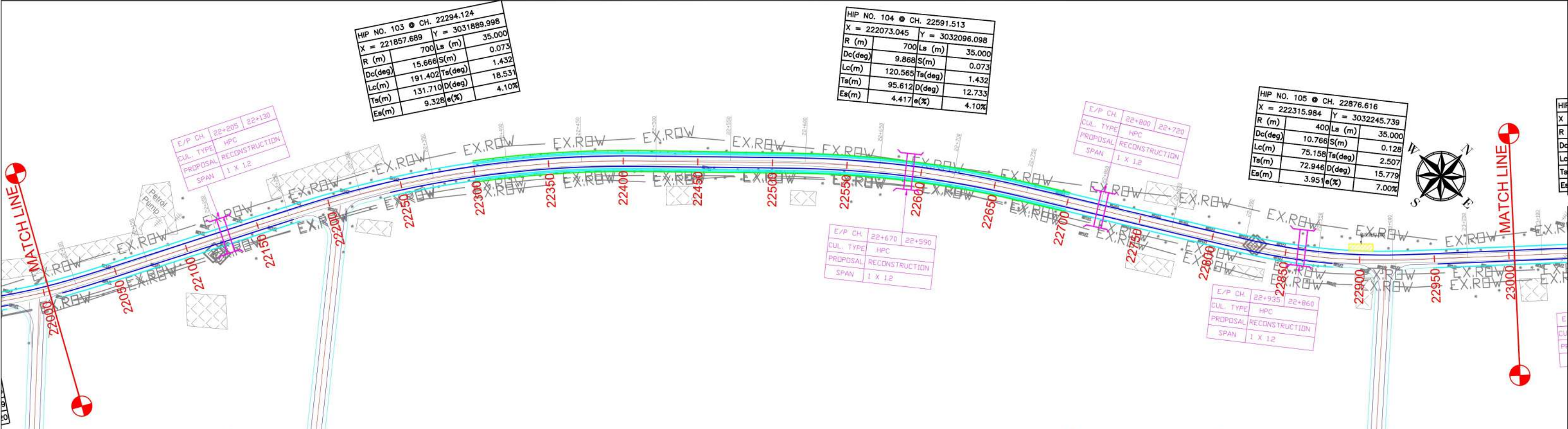
DEC : 2021

SIZE : A3

TITLE:-

(Km. 21+000 to Km. 22+000)

DRAWING NO : LNM/DL/UP/DWG/P&P



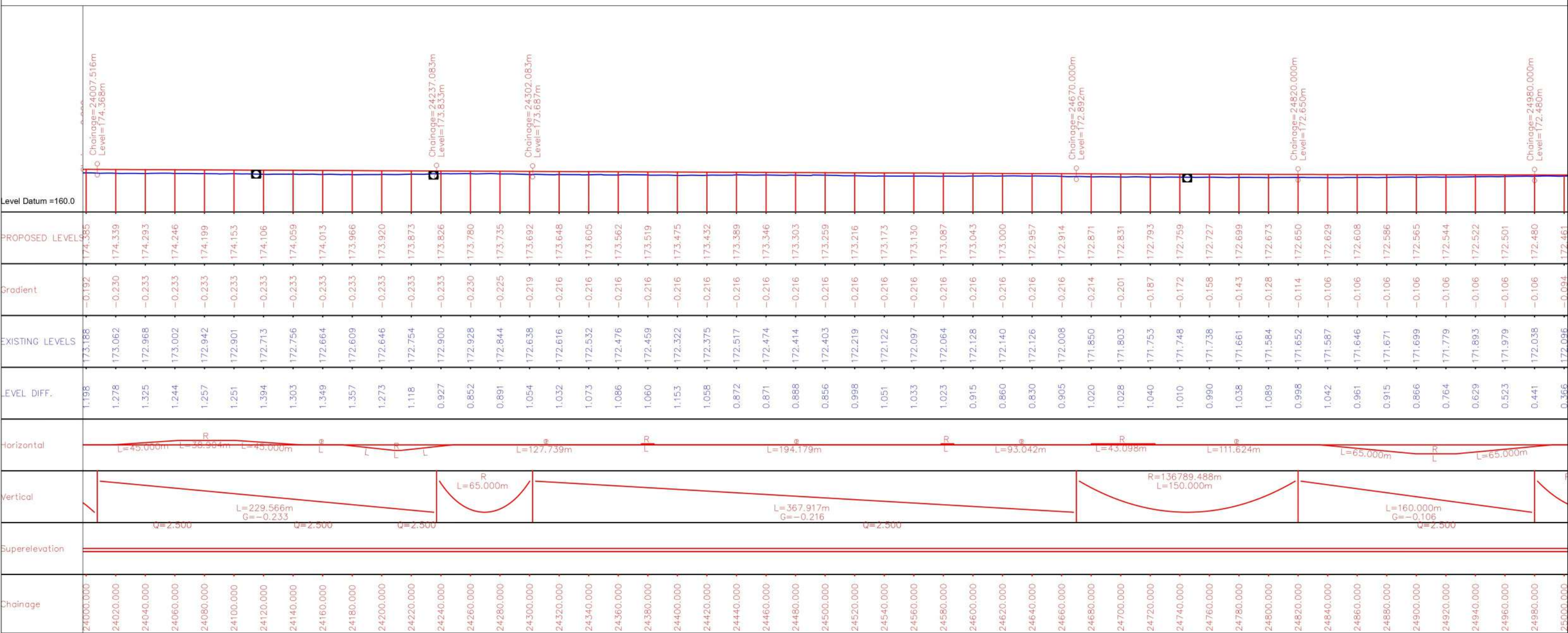
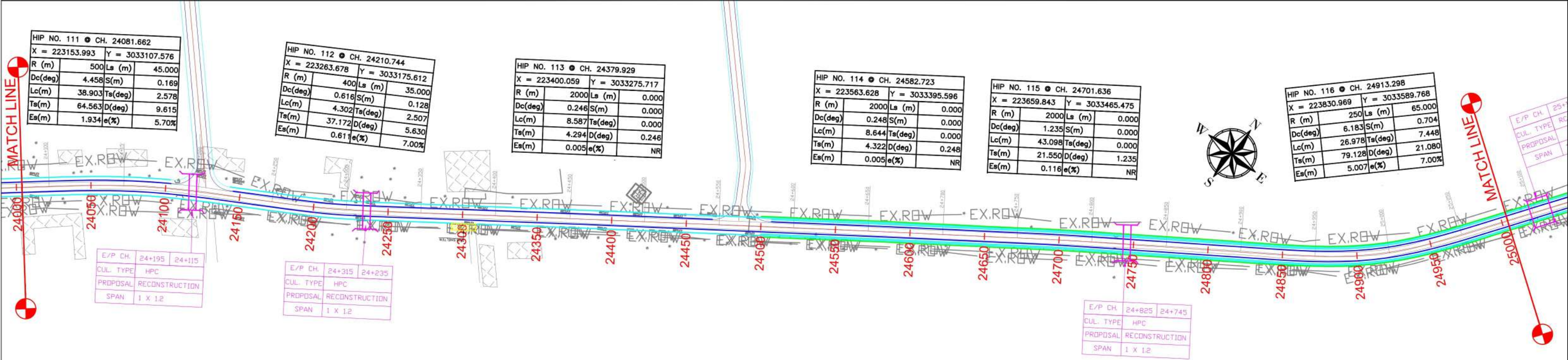
HIP NO. 106 ● CH. 23083.011			
X = 222459.371		Y = 3032394.304	
R (m)	2000	LS (m)	0.000
Dc(deg)	0.837	S(m)	0.000
Lc(m)	29.205	Ts(deg)	0.000
Ts(m)	14.603	D(deg)	0.837
Es(m)	0.053	e(%)	NR

HIP NO. 107 ● CH. 23191.14			
X = 222531.861		Y = 3032474.539	
R (m)	700	LS (m)	35.000
Dc(deg)	3.661	S(m)	0.073
Lc(m)	44.729	Ts(deg)	1.432
Ts(m)	57.412	D(deg)	6.526
Es(m)	1.210	e(%)	4.10%

HIP NO. 108 ● CH. 23388.833			
X = 222649.701		Y = 3032633.31	
R (m)	600	LS (m)	30.000
Dc(deg)	6.354	S(m)	0.063
Lc(m)	66.534	Ts(deg)	1.432
Ts(m)	63.376	D(deg)	9.218
Es(m)	2.009	e(%)	4.70%

HIP NO. 109 ● CH. 23668.883			
X = 222847.809		Y = 3032831.286	
R (m)	1200	LS (m)	0.000
Dc(deg)	0.545	S(m)	0.000
Lc(m)	11.406	Ts(deg)	0.000
Ts(m)	5.703	D(deg)	0.545
Es(m)	0.014	e(%)	NR

HIP NO. 110 ● CH. 23823.299			
X = 222956.8		Y = 3032940.672	
R (m)	800	LS (m)	30.000
Dc(deg)	2.687	S(m)	0.047



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NAME OF WORK

CONSULTANCY SERVICES FOR FEASIBILITY STUDY AND PREPARATION OF
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NATIONAL HIGHWAYS IN THE STATE OF UTTAR PRADESH
PKG I
STRETCH FROM AGRA (JUNCTION ON NH - 509) NEAR ISLAM NAGAR TO
NUHKHAS (Km. 0+000 to 51+600)

DRAWN BY	N.B
DESIGN BY	K.K
APPROVED BY	R.P

SHEET: 25

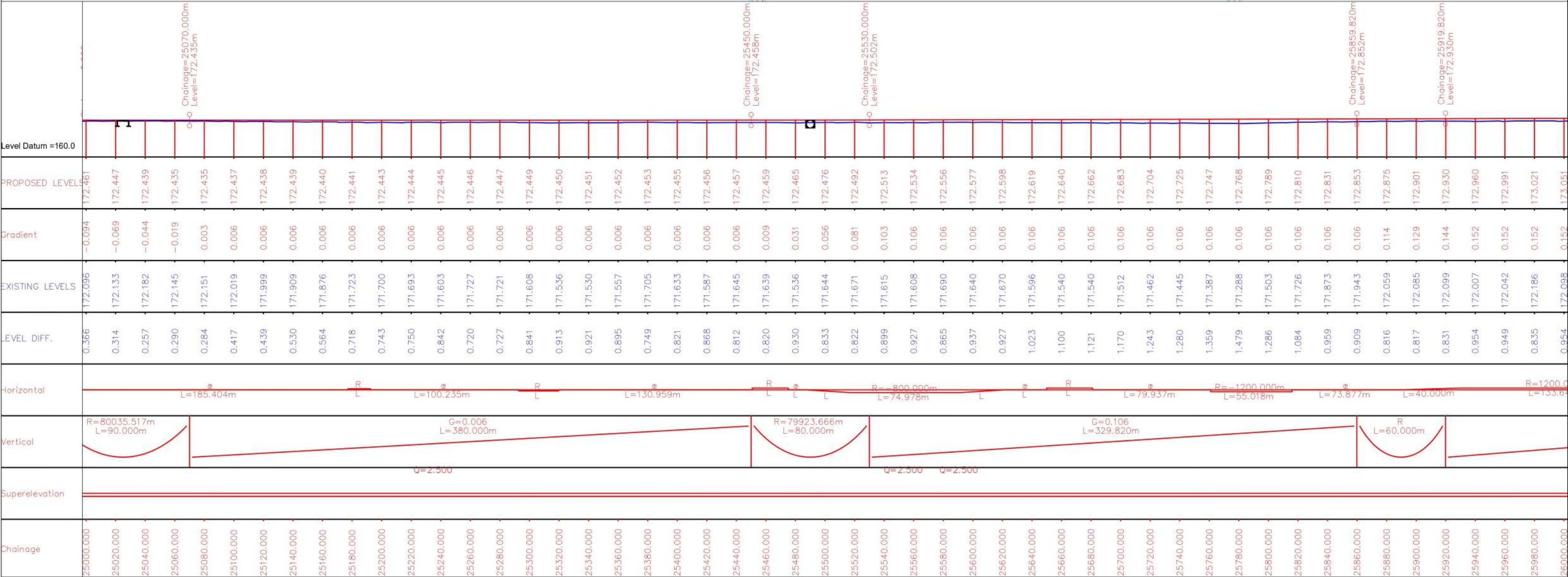
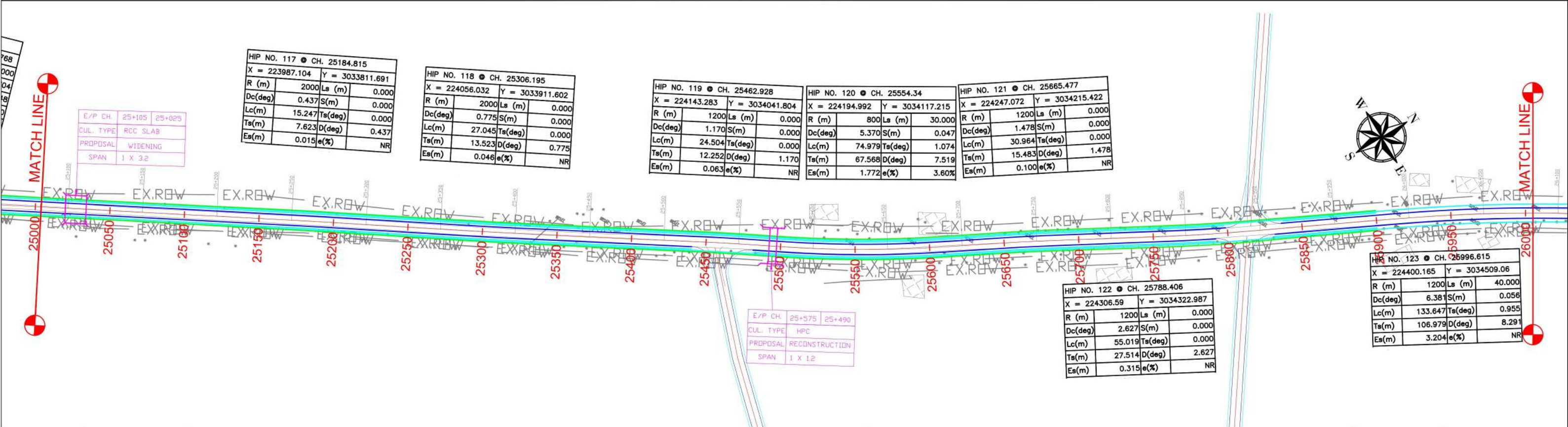
DEC : 2021

SIZE : A3

DRAWING NO : LNM/DL/UP/DWG/P&P

TITLE:-

(Km. 24+000 to Km. 25+000)



HIP NO. 130 ● CH. 27104.686				HIP NO. 131 ● CH. 27204.034				HIP NO. 132 ● CH. 27314.623				HIP NO. 133 ● CH. 27467.233				HIP NO. 134 ● CH. 27697.278				HIP NO. 135 ● CH. 27898.853			
X = 225167.7		Y = 3035283.879		X = 225231.368		Y = 3035360.143		X = 225303.981		Y = 3035443.539		X = 225415.42		Y = 3035547.786		X = 225582.684		Y = 3035705.722		X = 225732.302		Y = 3035840.813	
R (m)	800	La (m)	30.000	R (m)	1200	La (m)	0.000	R (m)	500	La (m)	45.000	R (m)	2000	La (m)	0.000	R (m)	1200	La (m)	0.000	R (m)	2000	La (m)	0.000
Dc(deg)	1.773	S(m)	0.047	Dc(deg)	0.921	S(m)	0.000	Dc(deg)	1.589	S(m)	0.169	Dc(deg)	0.638	S(m)	0.000	Dc(deg)	1.278	S(m)	0.000	Dc(deg)	2.468	S(m)	0.000
Lc(m)	24.751	Ts(deg)	1.074	Lc(m)	19.283	Ts(deg)	0.000	Lc(m)	13.869	Ts(deg)	2.578	Lc(m)	22.269	Ts(deg)	0.000	Lc(m)	26.770	Ts(deg)	0.000	Lc(m)	86.135	Ts(deg)	0.000
Ts(m)	42.388	D(deg)	3.921	Ts(m)	9.642	D(deg)	0.921	Ts(m)	51.977	D(deg)	6.746	Ts(m)	11.134	D(deg)	0.638	Ts(m)	13.385	D(deg)	1.278	Ts(m)	43.074	D(deg)	2.468
Es(m)	0.516	e(%)	3.60%	Es(m)	0.039	e(%)	NR	Es(m)	1.037	e(%)	5.70%	Es(m)	0.031	e(%)	NR	Es(m)	0.075	e					

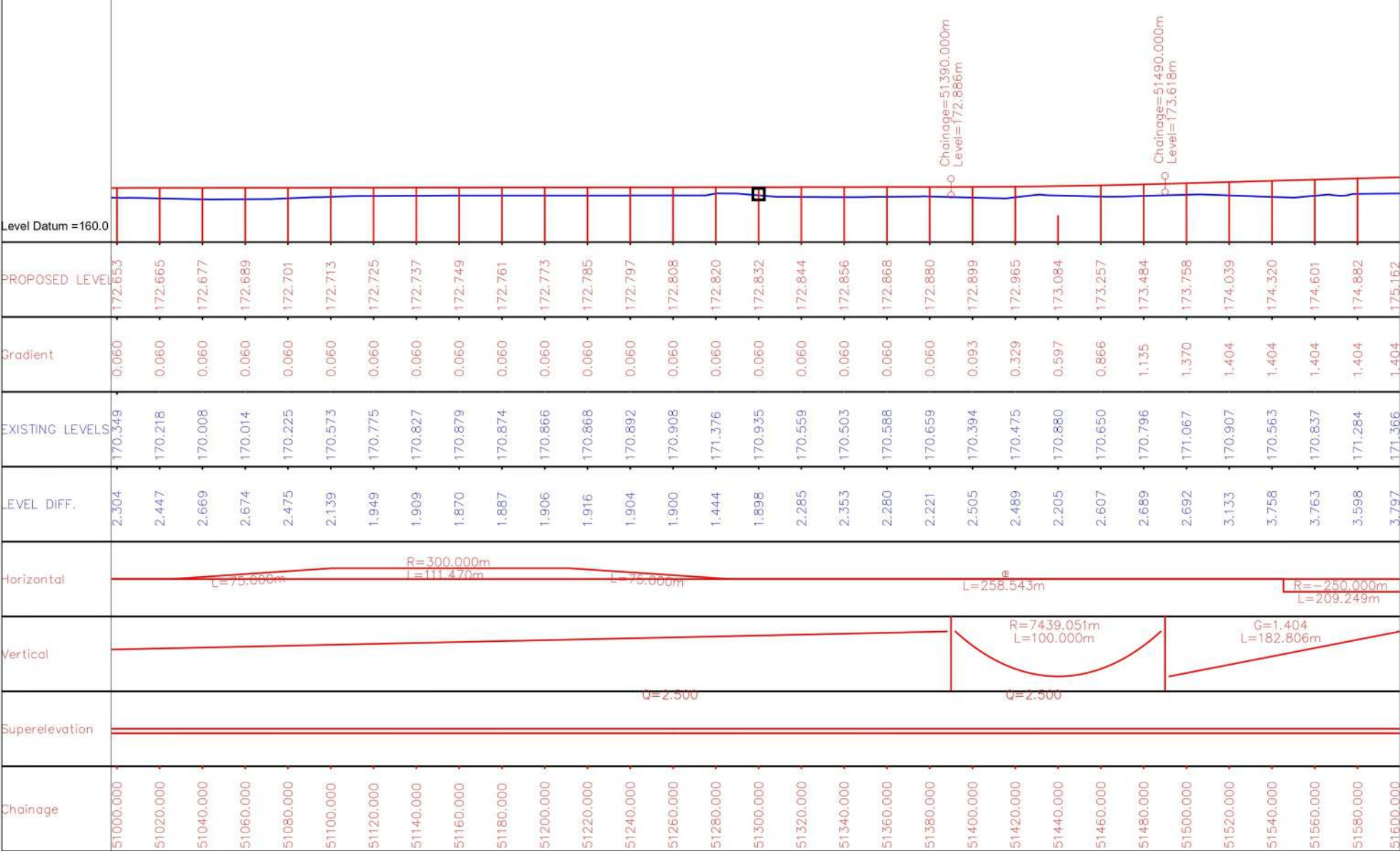
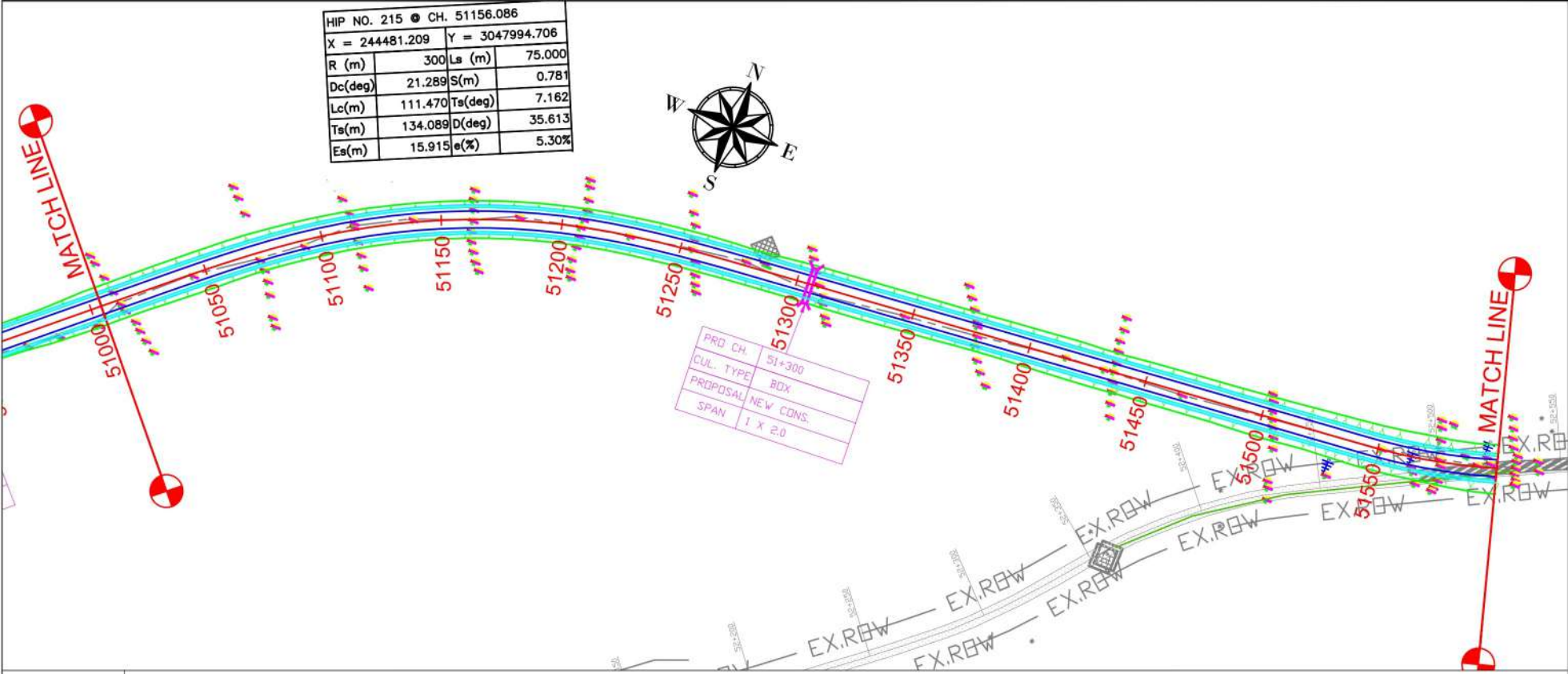
HIP NO. 145 ● CH. 30052.095				
X = 227448.52		Y = 3037129.203		
R (m)	1200	LS (m)	0.000	
Dc(deg)	1.054	S(m)	0.000	
Lc(m)	22.074	Ts(deg)	0.000	
Ts(m)	11.037	D(deg)	1.054	
Es(m)	0.051	e(%)	NR	

HIP NO. 147 ● CH. 30497.633				
X = 227810.783		Y = 3037388.562		
R (m)	1200	LS (m)	0.000	
Dc(deg)	1.563	S(m)	0.000	
Lc(m)	32.731	Ts(deg)	0.000	
Ts(m)	16.367	D(deg)	1.563	
Es(m)	0.112	e(%)	NR	

HIP NO. 148 ● CH. 30643.649				
X = 227932.137		Y = 3037469.777		
R (m)	2000	LS (m)	0.000	
Dc(deg)	2.282	S(m)	0.000	
Lc(m)	79.645	Ts(deg)	0.000	
Ts(m)	39.828	D(deg)	2.282	
Es(m)	0.397	e(%)	NR	

E/P CH.	30+535	30+445
CUL. TYPE	HPC	
PROPOSAL	RECONSTRUCTION	
SPAN	2 X 1.2	

HIP NO. 146 ● CH. 30303.221				
X = 227652.223		Y = 3037276.068		



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DRAWN BY	N.B
DESIGN BY	K.K
APPROVED BY	R.P

SHEET: **36**

DEC : 2021

SIZE : A3

DRAWING NO : LNM/DL/UP/DWG/P&P

TITLE:-
(Km. 51+000 to Km. 51+600)

BYPASS-1



BYPASS-2

