Hebbal Esteem mall junction

Silk Road

Legend

Topographic Survey

Asphalt Edge		Flag Pole		Median	
Building		Foot Path		Palm Tree	
Bus Stop		Gate		Parking	
Bollard		Handrail		Pole	
Concrete		High Mast Light		Power Pole	
Closed Drain		Light Pole		Post	
Curb Top & Bottom		Lamp Post		Retaining Wall Top & Bottom	
Electrical Box	EB	Manhole	MH	Road Centreline	
Fence				Road Median	
Road Sign	SB	Sink		Transformer	
Roof Extension		Sky Walk Bridge		Tree	
Safety Barrier		Sports Field		Tunnel	
Security Room		Stairs		Tree Line	
Shed		Telecommunication Tower		Wall	
Shelter		Telephone Box	TPB	Water Body	
Side Walk		Temporary Barrier		Water Tank	
Sign Board	SB	Track		Zebra Crossing	
Single Post		Traffic Signal	TS		

Legend

Plan		L Profile	
Proposed Tunnel Tube-I		Proposed Road Levels	
Proposed Tunnel Tube-II		Existing Levels	
Proposed Shaft		Proposed NATM	
Proposed Vehicular Cross Passage		Proposed Cut & Cover	
Proposed NATM (Entry Ramp)		Proposed Shaft	
Proposed NATM (Exit Ramp)		G - Gradient %	
Proposed Cut & Cover (Entry Ramp)		Lv - Length of Vertical Curve	
Proposed Cut & Cover (Exit Ramp)		L - Length of Grade(m)	
Proposed Open Cut (Exit Ramp)		K - Ratio Between vertical curve Length & Change of Gradient {Lc/(G2-G1)}	
Proposed Open Cut (Entry Ramp)		e - Superelevation (%)	
Proposed Rights of Way	PROW PROW PROW	D - Straight Length of Horizontal Alignment	
Existing Rights of Way		Lc - Length of Circular Curve	
Airport Metro Line			
Metro Line (Phase-1)			
Metro Line (Phase-2)			
Metro Line (Phase-3A)			
R - Radius of Curve			
Dc - Degree of Curvature			
Lc - Length of Circular Curve			
Ts - Tangent Length			
Es - Apex Distance			
LS - Length of Spiral Curve			
Δ - Deflection Angle			
DS - Design Speed Km/Hr			
PC - Point of Curvature			
PT - Point of Tangent			
HIP - Horizontal Intersection Point			

REVISION	DATE	AMENDMENT \ ISSUE DESCRIPTION
R0	Jan.:- 2025	-

CLIENT
GOVERNMENT OF KARNATAKA
Bruhat Bangalore Mahanagara Palike

AE/Infra Div.-RI,BBMP	
AEE/Infra Div.-RI,BBMP	
EE/Infra Div.-RI,BBMP	
EIC- BBMP	

CONSULTANT:
RODIC CONSULTANTS PVT. LTD.
1, JAI SINGH MARG (FIRST FLOOR), YMCA CULTURAL CENTRE BUILDING
NEW DELHI - 110001 (INDIA)

GEOCONSULT INDIA PRIVATE LIMITED
04B106 WeWork, Platina Tower MG Road Near Sikanderpur Metro Station Sector 28, Gurugram Haryana INDIA

FINAL DETAILED PROJECT REPORT
(Package 1 : Km 0.000 to km 8.748 of North South Corridor connecting Hebbal to Silk Board.)

Designed:	RR	
Drawn:	SS	
Checked:	AT	
Approved:	HRY	

Scale :- H=:-1:2500
V=:-1:2500
Sheet size: A2

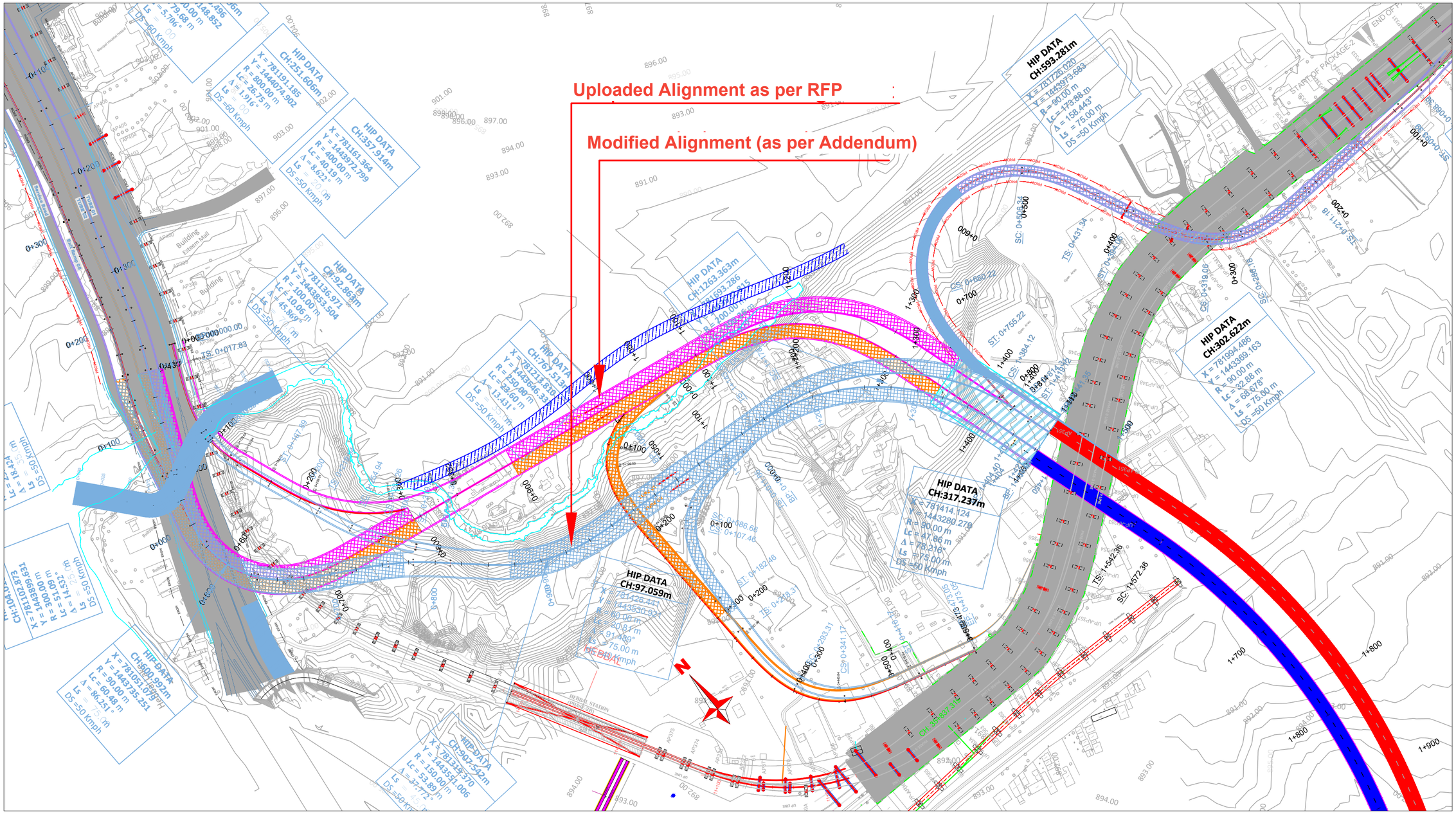
Project	Construction of twin tube Underground Vehicular Tunnel (3-lane Configuration each) from Hebbal near Esteem Mall junction (Km. 0+000) to Shesadri Road, freedom park (Km 8.748) of North South Corridor including launching and retrieval shaft (at Km 1+375 and Km 5+050), entry exit ramps at Hebbal (Km 0+000) and ORR, entry and Entry & exit ramps at CV Raman Road and Jaymahal road.
Drawing Title	PLAN & PROFILE (LEGEND)
Drawing No.	RC/1640/HO/HBT/TU/DWG/P&P/Legend /R0

PLAN & PROFILE

TUBE -I & II

Hebbal Esteem mall junction

Silk Road



Notes

1:- The Modified alignment (on the opposite of the nala) attracts nala diversionas shown in the drawing

2:- This option attracts increase in length of the alignments as follow:-

- Tube-1 by 23.0 m.
- Tube-2 by 33.0 m.
- Exit Ramp-7 by 111 m
- Entry Ramp-1 by 10 m

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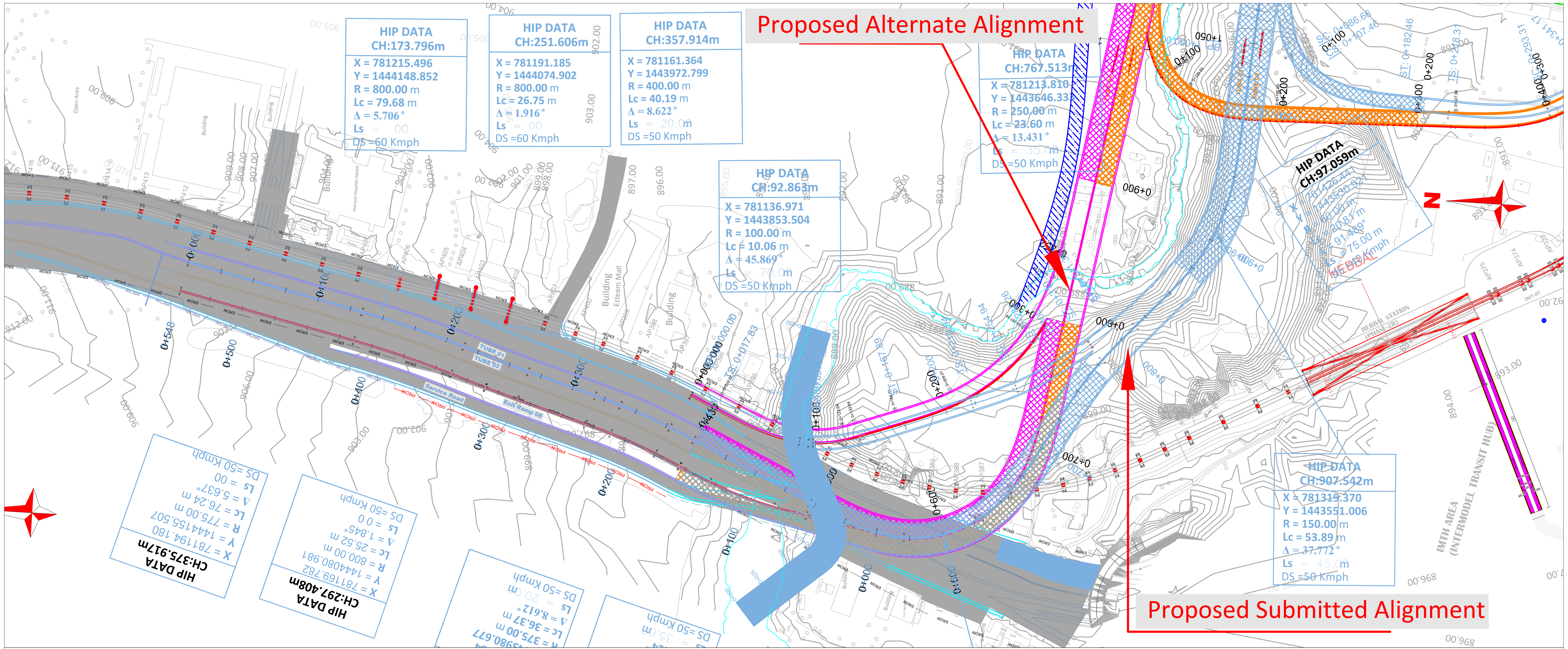
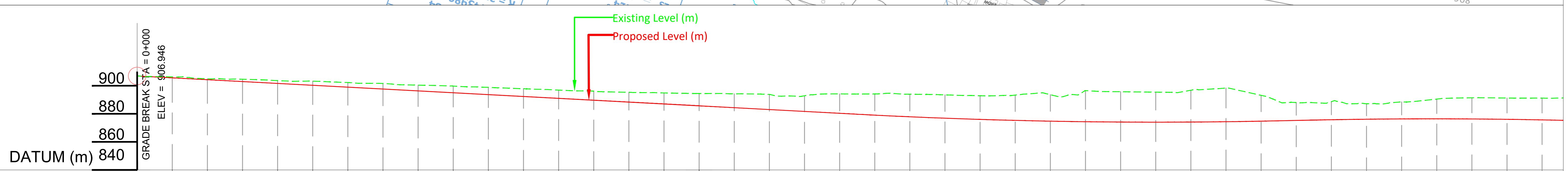
Drawing Title	PLAN & PROFILE (Tube-1 and Tube-2) (Km.1+000 to Km.1+427)
Drawing No.	RC/1640/HO/HBT/TU/DWG/P&P/ 01A/R0

Hebbal Esteem mall junction ← → Silk Road





Chainage	00.000	25.000	50.000	75.000	100.000	125.000	150.000	175.000	200.000	225.000
Proposed Levels	906.946	905.616	904.286	902.956	901.626	900.296	898.966	897.636	896.306	894.976
Existing Levels	906.946	906.286	904.919	904.636	903.637	903.262	902.290	901.574	900.400	899.747
Level Difference	0.000	-0.670	-0.633	-1.680	-2.011	-2.966	-3.324	-3.938	-4.094	-4.770

Chainage	250.000	275.000	300.000	325.000	350.000	375.000	400.000	425.000	450.000	475.000
Proposed Levels	893.646	892.317	890.987	889.657	888.327	886.997	885.667	884.337	883.007	881.677
Existing Levels	898.848	897.896	896.863	896.129	895.317	894.842	894.434	894.231	893.804	892.830
Level Difference	-5.202	-5.579	-5.876	-6.472	-6.991	-7.845	-8.767	-9.894	-10.797	-11.152

Chainage	500.000	525.000	550.000	575.000	600.000	625.000	650.000	675.000	700.000	725.000
Proposed Levels	880.347	879.038	877.866	876.850	875.991	875.287	874.740	874.350	874.115	874.037
Existing Levels	894.176	894.163	893.948	893.472	892.853	893.309	893.598	896.500	895.717	895.418
Level Difference	-13.829	-15.125	-16.082	-16.622	-16.862	-18.021	-18.858	-22.151	-21.601	-21.380

Chainage	750.000	775.000	800.000	825.000	850.000	875.000	900.000	925.000	950.000	975.000	1000.000
Proposed Levels	874.115	874.349	874.740	875.250	875.753	876.125	876.342	876.402	876.306	876.053	875.645
Existing Levels	896.789	898.305	893.146	887.967	888.657	887.181	888.444	890.483	891.402	891.234	891.158
Level Difference	-22.674	-23.956	-18.406	-12.717	-12.904	-11.056	-12.103	-14.081	-15.096	-15.181	-15.513

Horizontal: L =133.959 | R: 800.000 L: 79.675 | L =24.595 | R: 800.000 L: 26.753 | L =52.834 | L: 20.000 | R: 400.000 L: 40.194 | L =96.295 | L: 75.000 | R: 90.000 L: 90.979 | L: 75.000 | L =346.600

Vertical: G =-5.320% L =467.955 | G =-5.320% L =112.228 | R =4000.000 K =40.000 L =295.543 | G =2.069% L =31.595 | R =4000.000 K =40.000 L =190.773

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GEOCONSULT INDIA PRIVATE LIMITED
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FINAL DETAILED PROJECT REPORT
(Package 1 : Km 0.000 to km 8.748 of North South Corridor connecting Hebbal to Silk Board.)

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Drawn:	SS
Checked:	AT
Approved:	HRY

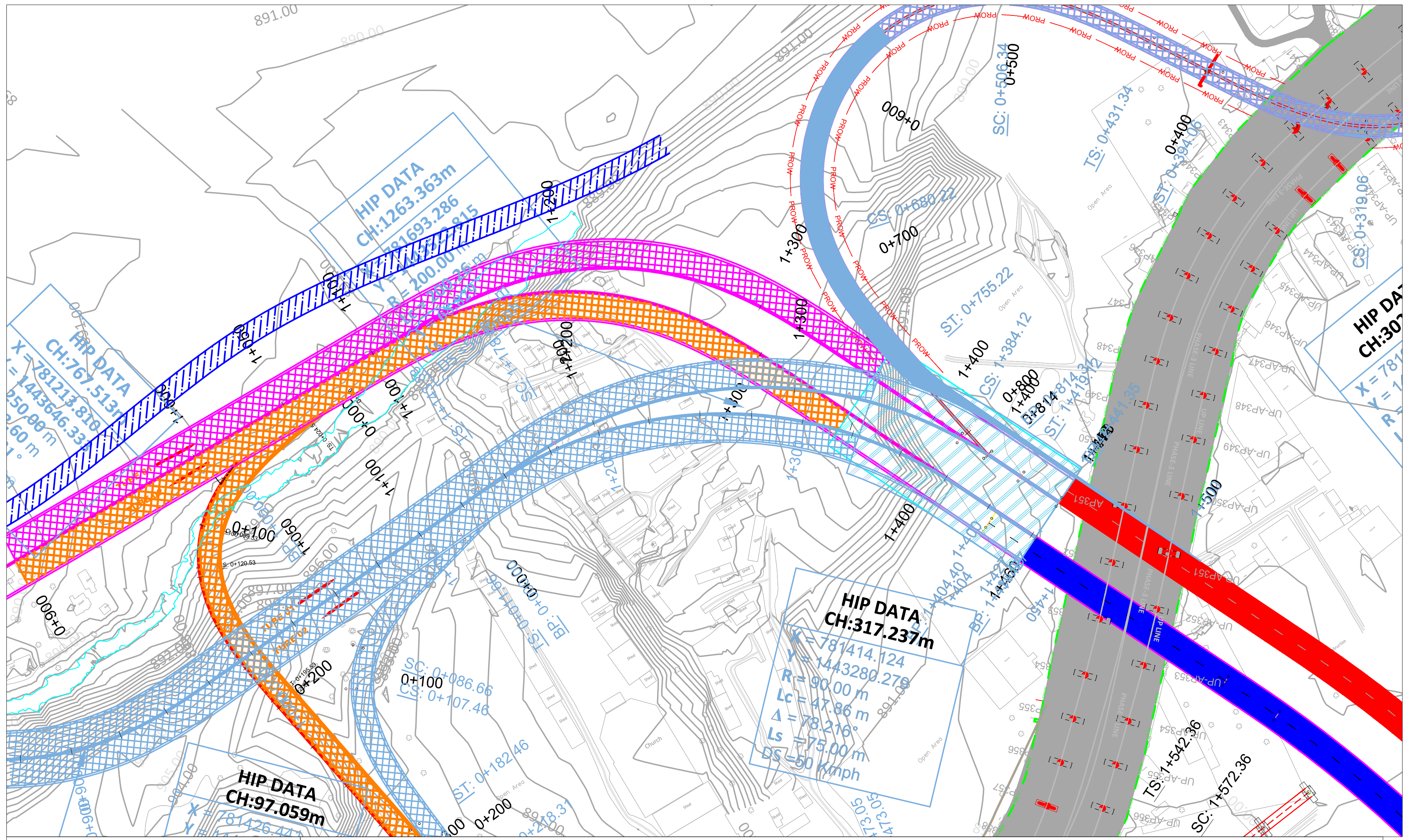
Scale :- H=:-1:2500 V=:-1:2500
Sheet size: A2

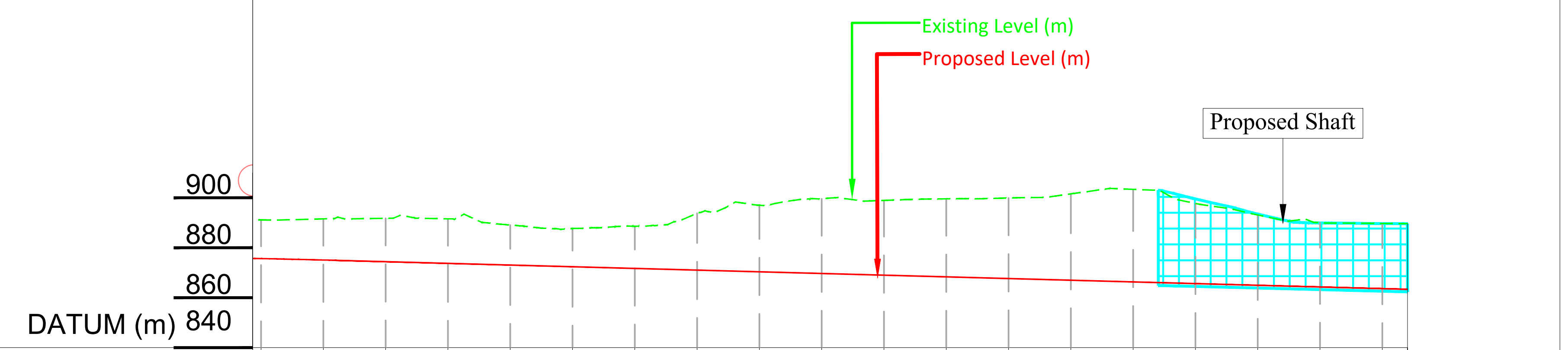
Project: Construction of twin tube Underground Vehicular Tunnel (3-lane Configuration each) from Hebbal near Esteem Mall junction (Km. 0+000) to Shesadri Road, freedom park (Km 8.748) of North South Corridor including launching and retrieval shaft (at Km 1+375 and Km 5+050), entry exit ramps at Hebbal (Km 0+000) and ORR, entry and Entry & exit ramps at CV Raman Road and Jaymahal road.

Drawing Title: PLAN & PROFILE (Tube-1 and Tube-2) (Km.0+000 to Km.1+000)

Drawing No.: RC/1640/HO/HBT/TU/DWG/P&P/ 01/R0

Hebbal Esteem mall junction ← → Silk Road





Chainage	1000.000	1025.000	1050.000	1075.000	1100.000	1125.000	1150.000	1175.000	1200.000	1225.000	1250.000	1275.000	1300.000	1325.000	1350.000	1375.000	1400.000	1425.000	1450.000	1460.089
Proposed Levels	875.645	875.080	874.408	873.733	873.058	872.383	871.708	871.033	870.357	869.682	869.007	868.332	867.657	866.982	866.307	865.632	864.957	864.282	863.606	863.334
Existing Levels	891.158	891.543	891.783	891.564	889.080	887.730	888.598	893.780	896.993	899.581	898.935	899.576	899.916	901.564	903.364	897.736	893.107	890.008	889.705	889.638
Level Difference	-15.513	-16.463	-17.375	-17.831	-16.022	-15.347	-16.891	-22.747	-26.635	-29.899	-29.928	-31.244	-32.259	-34.582	-37.057	-32.104	-28.150	-25.726	-26.099	-26.304

Horizontal: L: 75.000 | R: 150.000 L: 92.294 | L: 75.000 | L =133.921

Vertical: G =-2.700% L =429.949

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Drawing Title: PLAN & PROFILE (Tube-1 and Tube-2)
(Km.1+000 to Km.1+427)

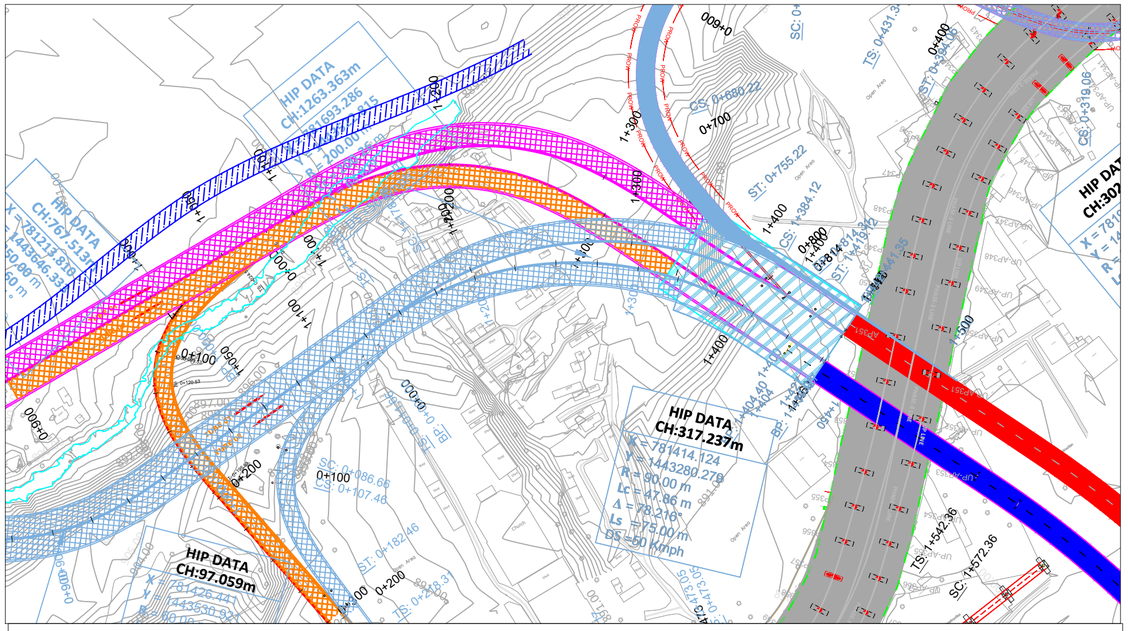
Drawing No.: RC/1640/HO/HBT/TU/DWG/P&P/ 01A/R0

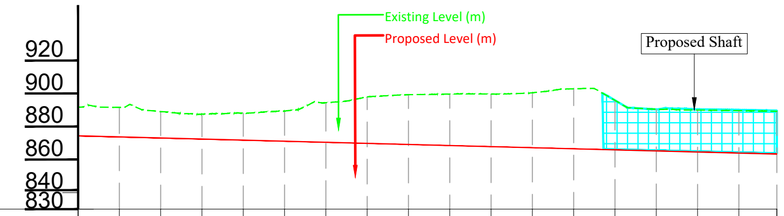
PLAN & PROFILE

(HEBBAL TUBE -I)

Hebbal Esteem mall junction

Silk Road





Proposed Levels	874.408	873.754	873.099	872.445	871.790	871.136	870.481	869.827	869.172	868.518	867.863	867.209	866.554	865.900	865.246	864.591	863.937	863.334
Existing Levels	891.783	891.564	889.092	887.567	888.113	889.412	894.448	898.012	899.317	899.681	899.700	900.472	902.872	895.879	890.424	889.990	889.634	889.250
Level Difference	-17.375	-17.810	-15.993	-15.122	-16.323	-18.276	-23.967	-28.186	-30.145	-31.163	-31.837	-33.263	-36.317	-29.979	-25.179	-25.399	-25.697	-25.916
Horizontal	L =56.959		L: 75.000		R: 150.000 L: 92.410					L: 75.000			L =123.649					
Vertical	G =-2.618% L =423.018																	
Chainage	1050.000	1075.000	1100.000	1125.000	1150.000	1175.000	1200.000	1225.000	1250.000	1275.000	1300.000	1325.000	1350.000	1375.000	1400.000	1425.000	1450.000	1473.018

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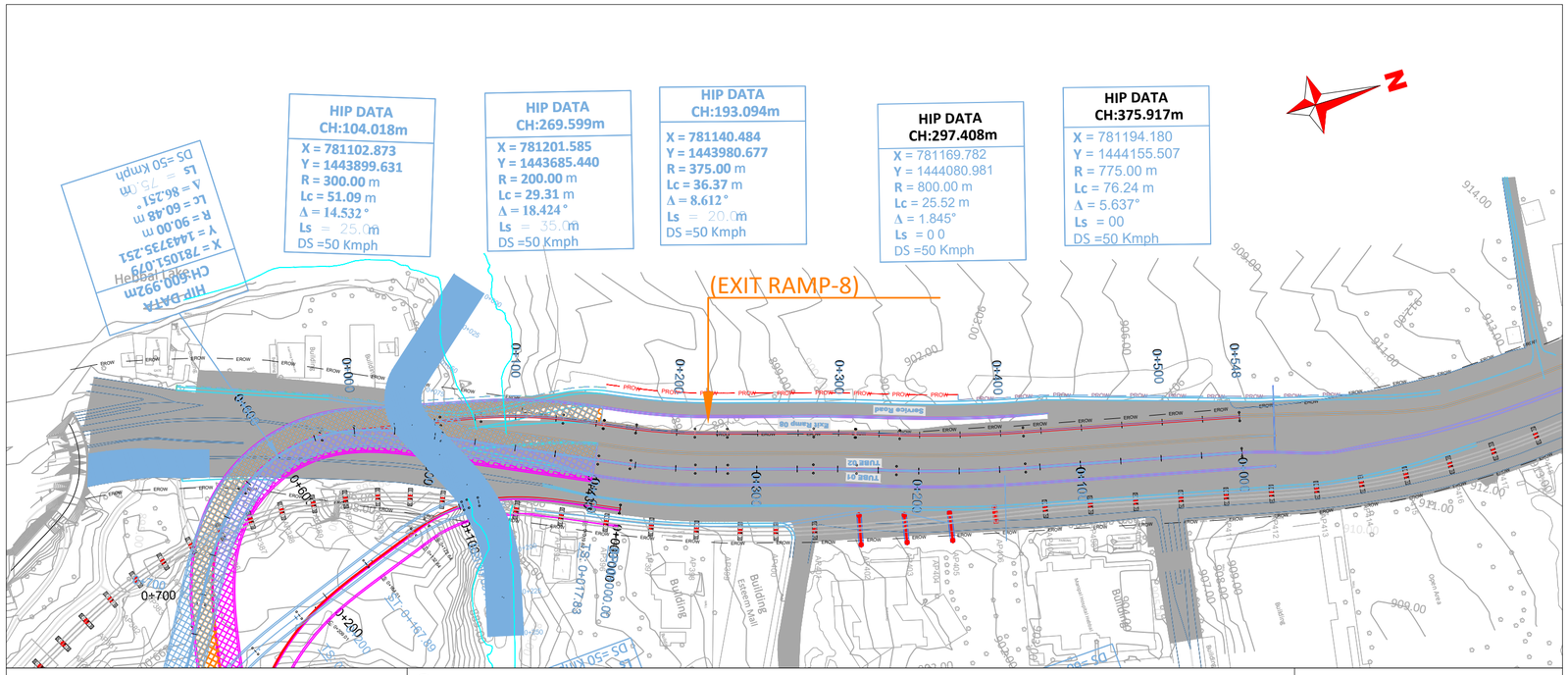
Drawing Title	PLAN & PROFILE (HEBBAL TUBE 1) (Km.1+050 to Km.1+473)
Drawing No.	RC/1640/HO/HBT/TU/DWG/P&P/ 01A/R0

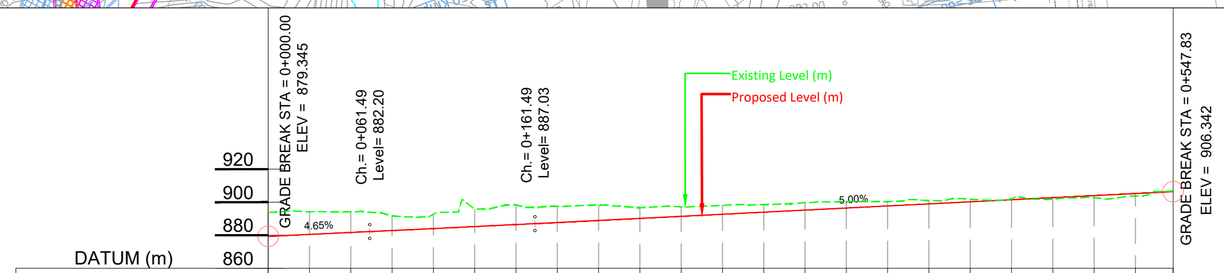
PLAN & PROFILE

(EXIT RAMP -8)

Hebbal Esteem mall junction

Silk Road





Chainage	Proposed Levels	Existing Levels	Level Difference
00.000	879.345	893.945	-14.600
25.000	880.507	894.223	-13.716
50.000	881.669	894.172	-12.503
75.000	882.834	891.771	-8.937
100.000	884.018	892.680	-8.662
125.000	885.225	895.765	-10.540
150.000	886.454	898.298	-11.844
175.000	887.701	897.432	-9.730
200.000	888.951	898.260	-9.309
225.000	890.201	896.641	-6.440
250.000	891.451	897.141	-5.689
275.000	892.701	898.055	-5.354
300.000	893.951	898.548	-4.597
325.000	895.201	899.744	-4.543
350.000	896.451	900.472	-4.021
375.000	897.701	900.381	-2.680
400.000	898.951	900.960	-2.009
425.000	900.201	901.813	-1.612
450.000	901.451	901.966	-0.515
475.000	902.701	901.902	0.799
500.000	903.951	902.710	1.240
525.000	905.201	903.724	1.477
547.829	906.342	906.746	-0.404

Horizontal

L =53.472 | L: 25.000 | R: 300.000 L: 51.091 | L: 25.000 | L =0.346 | R: 375.000 L: 36.368 | L: 20.000 | L =53.369 | R: 800.000 L: 25.522 | L =27.137 | R: 775.000 L: 76.241 | L =133.792

Vertical

G =4.647% L =61.493 | R =28349.157 K =283.492 L =100.000 | G =5.000% L =386.336

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Drawing Title: PLAN & PROFILE (EXIT RAMP-8) (Km.0+000 to Km.0+548)

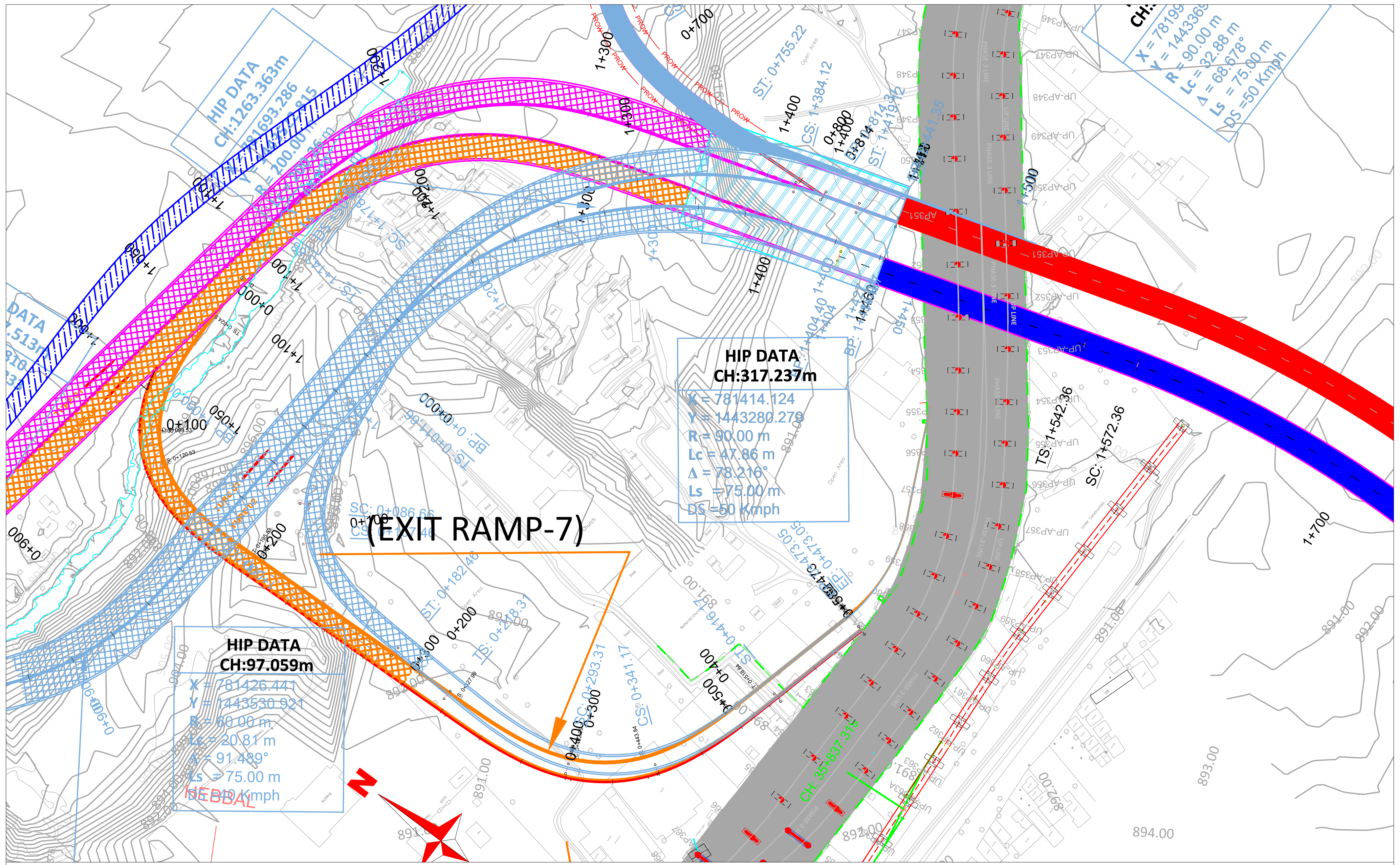
Drawing No.: RC/1640/HO/HBT/TU/DWG/P&P/ 01/R0

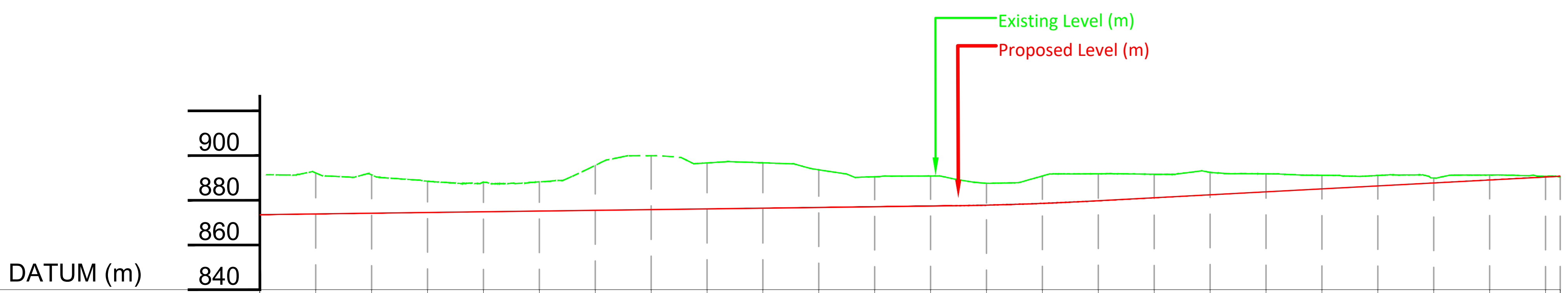
PLAN & PROFILE

(EXIT RAMP - 7)

← Hebbal Esteem mall junction

Silk Road →





Chainage	Proposed Levels	Existing Levels	Level Difference
00.000	873.610		-19.047
25.000	873.929	892.257	-18.328
50.000	874.248	891.414	-17.166
75.000	874.567	888.569	-14.002
100.000	874.886	888.137	-13.251
125.000	875.205	888.272	-13.067
150.000	875.524	895.645	-20.121
175.000	875.843	902.168	-26.324
200.000	876.162	896.747	-20.585
225.000	876.481	896.796	-20.315
250.000	876.800	893.674	-16.874
275.000	877.119	890.555	-13.436
300.000	877.438	890.907	-13.469
325.000	877.837	887.630	-9.794
350.000	878.623	890.907	-12.284
375.000	879.818	891.860	-12.042
400.000	881.141	891.680	-10.539
425.000	882.465	892.560	-10.095
450.000	883.788	891.856	-8.067
475.000	885.112	891.215	-6.103
500.000	886.435	891.130	-4.694
525.000	887.759	890.017	-2.258
550.000	889.083	891.344	-2.261
575.000	890.406	890.715	-0.309
581.537	890.752	890.420	0.332

Horizontal: L =24.530 | L: 75.000 | R: 60.000 L: 21.004 | L: 75.000 | L =132.458 | L: 75.000 | R: 90.000 L: 40.850 | L: 75.000 | L =62.694

Vertical: G =1.276% L =309.589 | R =1493.257 K =14.933 L =60.000 | G =5.294% L =211.948

REVISION	DATE	AMENDMENT \ ISSUE DESCRIPTION
R0	Jan.:- 2025	-

CLIENT
GOVERNMENT OF KARNATAKA
Bruhat Bangalore Mahanagara Palike

AE/Infra Div.-RI,BBMP
AEE/Infra Div.-RI,BBMP
EE/Infra Div.-RI,BBMP
EIC- BBMP

CONSULTANT:
RODIC CONSULTANTS PVT. LTD.
1, JAI SINGH MARG (FIRST FLOOR), YMCA CULTURAL CENTRE BUILDING
NEW DELHI - 110001 (INDIA)

GEOCONSULT INDIA PRIVATE LIMITED
04B106 WeWork, Platina Tower MG Road Near Sikanderpur Metro Station Sector 28, Gurugram
Haryana INDIA

FINAL DETAILED PROJECT REPORT
(Package 1 : Km 0.000 to km 8.748 of North South Corridor connecting Hebbal to Silk Board.)

Designed:	RR
Drawn:	SS
Checked:	AT
Approved:	HRY

Scale :- H=:-1:2500
V=:-1:2500
Sheet size: A2

Project: Construction of twin tube Underground Vehicular Tunnel (3-lane Configuration each) from Hebbal near Esteem Mall junction (Km. 0+000) to Shesadri Road, freedom park (Km 8.748) of North South Corridor including launching and retrieval shaft (at Km 1+375 and Km 5+050), entry exit ramps at Hebbal (Km 0+000) and ORR, entry and Entry & exit ramps at CV Raman Road and Jaymahal road.

Drawing Title: PLAN & PROFILE (EXIT RAMP-7)
(Km.0+000 to Km.0+581)

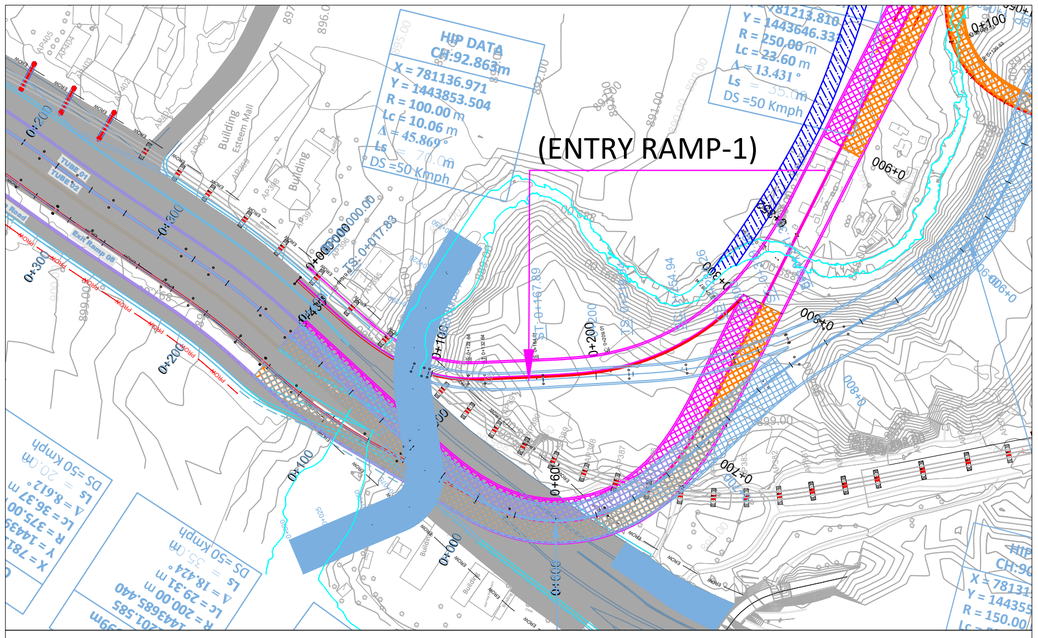
Drawing No.: RC/1640/HO/HBT/TU/DWG/P&P/ 01/R0

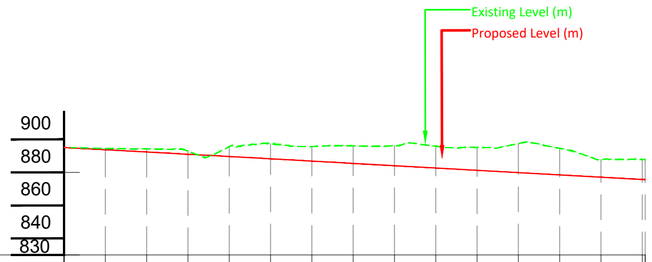
PLAN & PROFILE

(ENTRY RAMP - 1)

Hebbal Esteem mall junction

Silk Road





Proposed Levels	893.715	892.343	890.970	889.594	888.211	886.823	885.429	884.034	882.638	881.242	879.847	878.451	877.055	875.660	875.560
Existing Levels	895.072	894.387	894.240	892.813	895.594	897.350	895.638	896.015	896.128	895.837	895.065	897.427	894.551	887.795	887.835	887.737
Level Difference	-0.671	-1.897	-1.843	-6.000	-9.138	-8.814	-10.586	-12.094	-13.199	-13.823	-17.580	-16.100	-10.739	-12.175	-12.177

Horizontal

L =19.617 | L: 75.000 | R: 90.000 L: 28.024 | L: 10.000 | L =31.368 | L: 45.000 | R: 150.000 L: 78.927 | L: 45.000 | L =18.848

Vertical

G =-5.490% L =69.608 | R =107571.931 K =1075.719 L =100.000 | G =-5.583% L =181.784

Chainage

00.000 | 25.000 | 50.000 | 75.000 | 100.000 | 125.000 | 150.000 | 175.000 | 200.000 | 225.000 | 250.000 | 275.000 | 300.000 | 325.000 | 350.000 | 351.784

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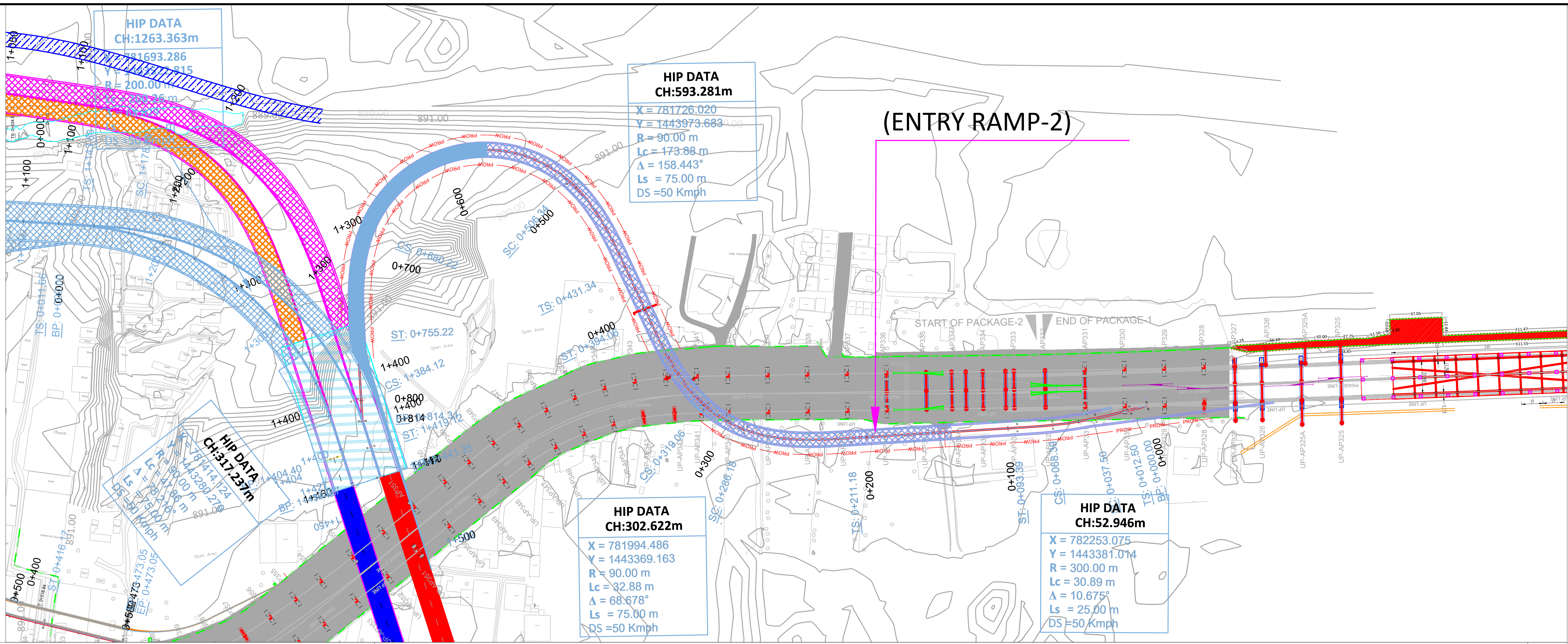
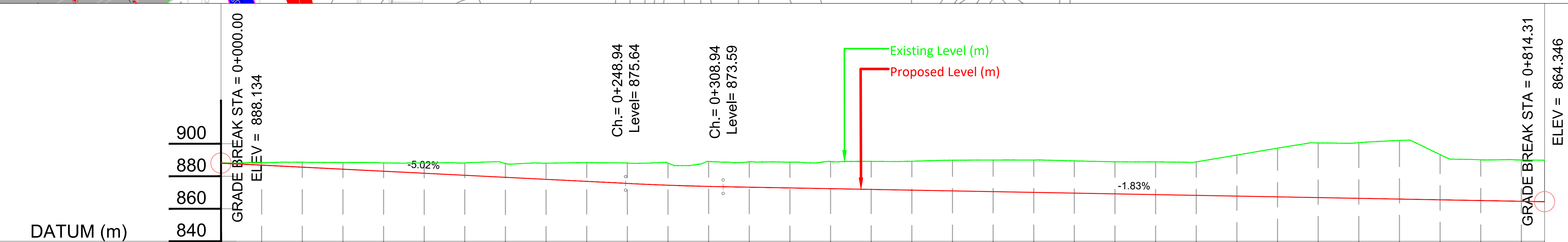
Drawing Title	PLAN & PROFILE (ENTRY RAMP-1) (Km.0+000 to Km.0+341)
Drawing No.	RC/1640/HO/HBT/TU/DWG/P&P/ 01/R0

PLAN & PROFILE

(ENTRY RAMP - 2)

Hebbal Esteem mall junction ← → Silk Road





Chainage	00.000	25.000	50.000	75.000	100.000	125.000	150.000	175.000	200.000	225.000	250.000	275.000	300.000	325.000	350.000	375.000	400.000
Proposed Levels	888.134	886.879	885.625	884.370	883.115	881.860	880.606	879.351	878.096	876.841	875.587	874.513	873.770	873.292	872.835	872.378	871.921
Existing Levels	888.134	888.470	888.639	888.455	888.244	888.109	888.256	887.888	888.080	888.457	888.143	888.103	889.151	888.889	888.710	889.101	889.164
Level Difference	0.000	-1.590	-3.014	-4.085	-5.128	-6.249	-7.650	-8.537	-9.984	-11.615	-12.556	-13.591	-15.381	-15.597	-15.875	-16.723	-17.243

Chainage	425.000	450.000	475.000	500.000	525.000	550.000	575.000	600.000	625.000	650.000	675.000	700.000	725.000	750.000	775.000	800.000	814.314
Proposed Levels	871.464	871.007	870.550	870.093	869.636	869.178	868.721	868.264	867.807	867.350	866.893	866.436	865.979	865.522	865.065	864.608	864.346
Existing Levels	889.278	889.877	889.993	890.015	889.482	888.938	888.860	888.902	893.076	897.311	900.540	900.674	902.040	893.370	890.145	890.050	889.904
Level Difference	-17.814	-18.871	-19.443	-19.923	-19.846	-19.760	-20.139	-20.638	-25.269	-29.960	-33.647	-34.238	-36.061	-27.848	-25.080	-25.442	-25.558

Horizontal: L =12.499; L: 25.000; R: 300.000 L: 30.893; L: 25.000; L =117.790; L: 75.000; R: 90.000 L: 32.879; L: 75.000; L =37.278; L: 75.000; R: 90.000 L: 173.882; L: 75.000; L =59.092

Vertical: G =-5.019% L =248.940; R =1880.463 K =18.805 L =60.000; G =-1.828% L =505.373

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Drawing Title: PLAN & PROFILE (ENTRY RAMP-2) (Km.0+000 to Km.000+814)

Drawing No.: RC/1640/HO/HBT/TU/DWG/P&P/ 01/R0