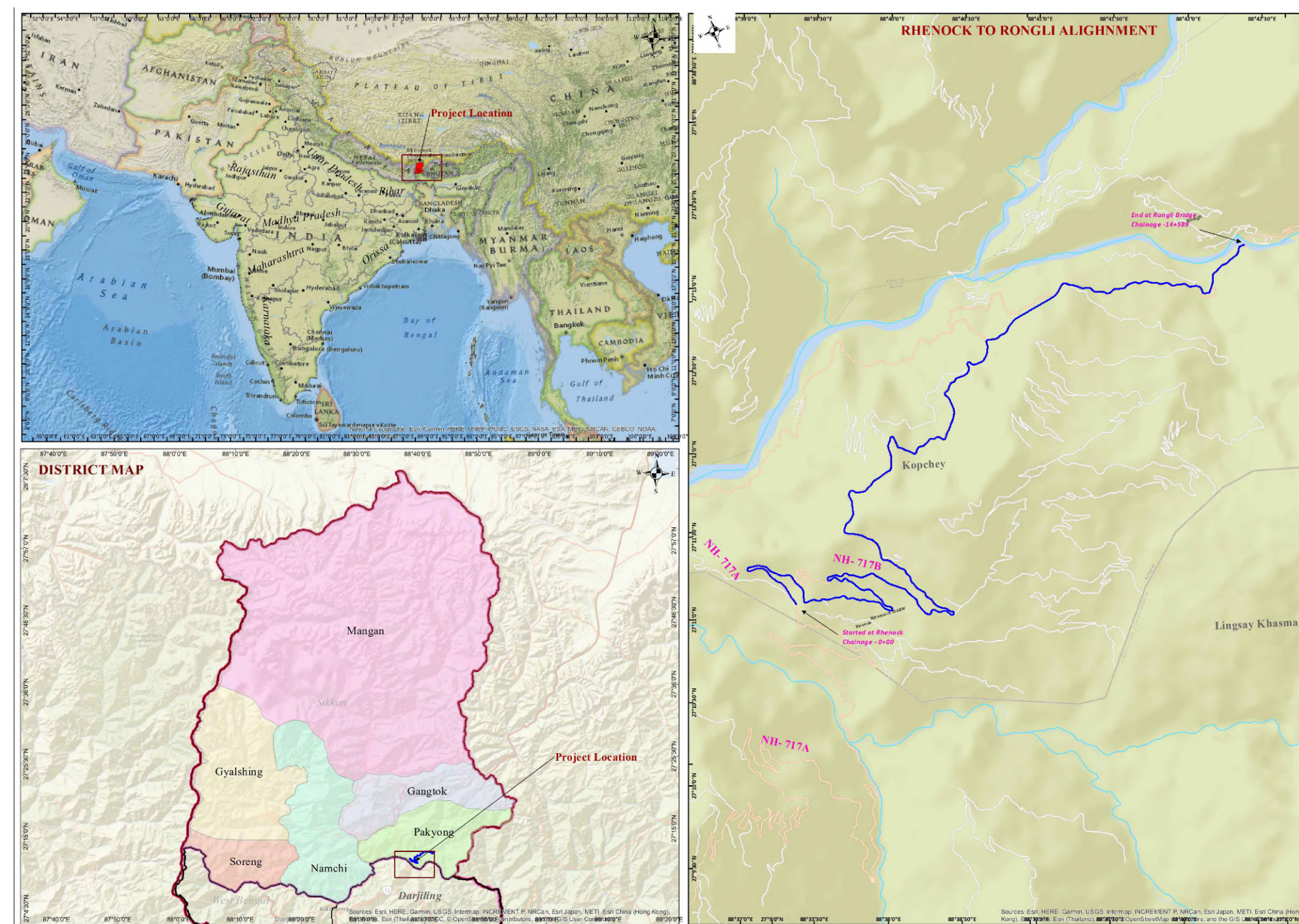




NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED (NHIDCL)

(A fully owned company under Ministry of Road Transport & Highways, Govt of India)

**Consultancy Services For Preparation Of DPR and Providing Services
For Pre-Construction Activities in Respect of “Widening and Up-Gradation of Existing
Carriageway into 2L+PS Configuration from Reshi (km 96.254) to Rhenock (km 101.554)
along NH-717A & from Rhenock (km 0.00) to Rongli Bazaar (km 15.300) along NH-717B
in the states of Sikkim ”.**



CONSULTANT:



Xplorer Consultancy Services Pvt. Ltd.
in joint venture
Dsd Infratech Management Pvt. Ltd.
in Association With
Maverick Mernok & Construction
511, Tower b, ithum, plot-A40
Sector-62, Noida
Uttar Pradesh – 201301

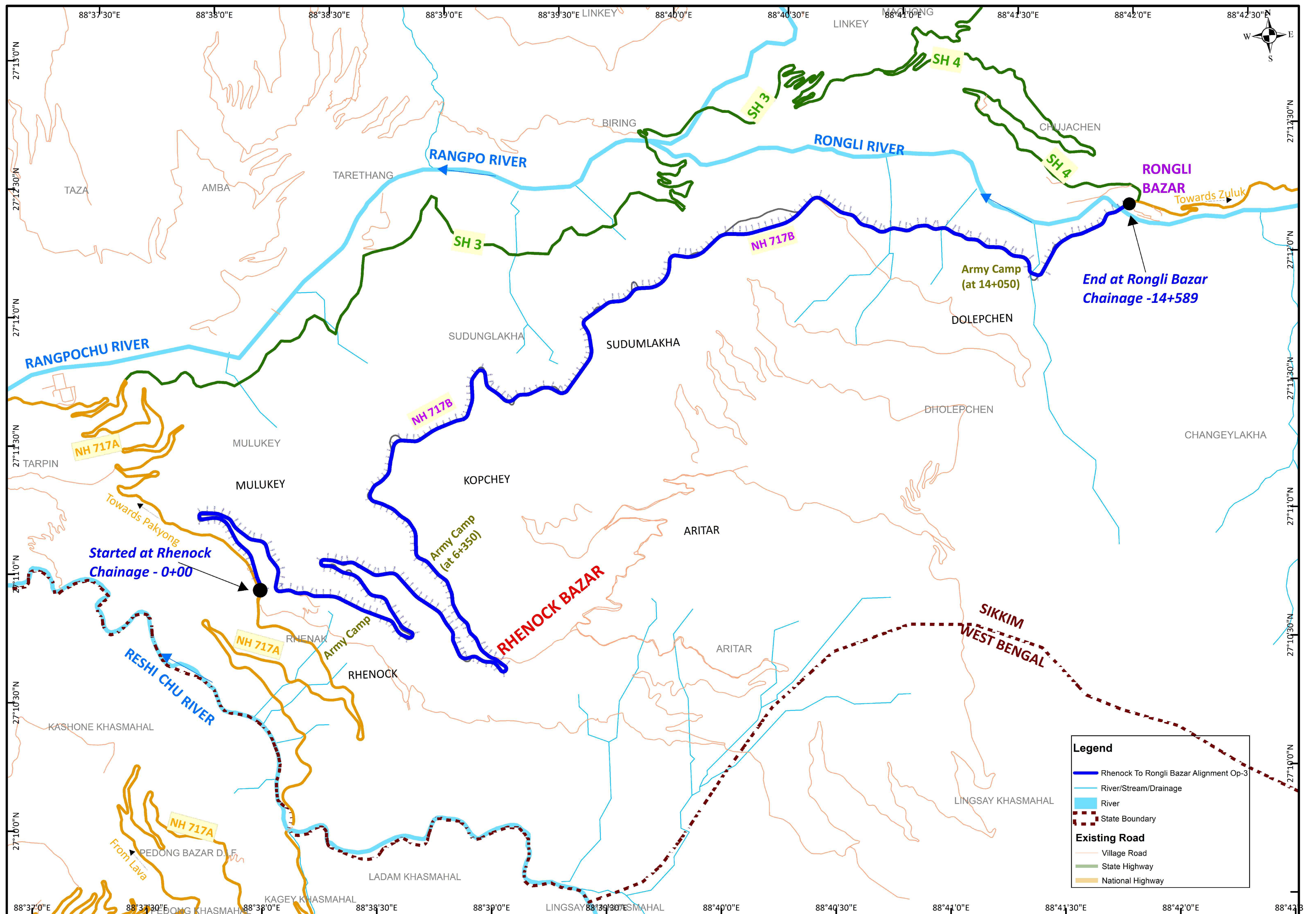
Draft Detailed Project Report Drawings(Volume-IV)

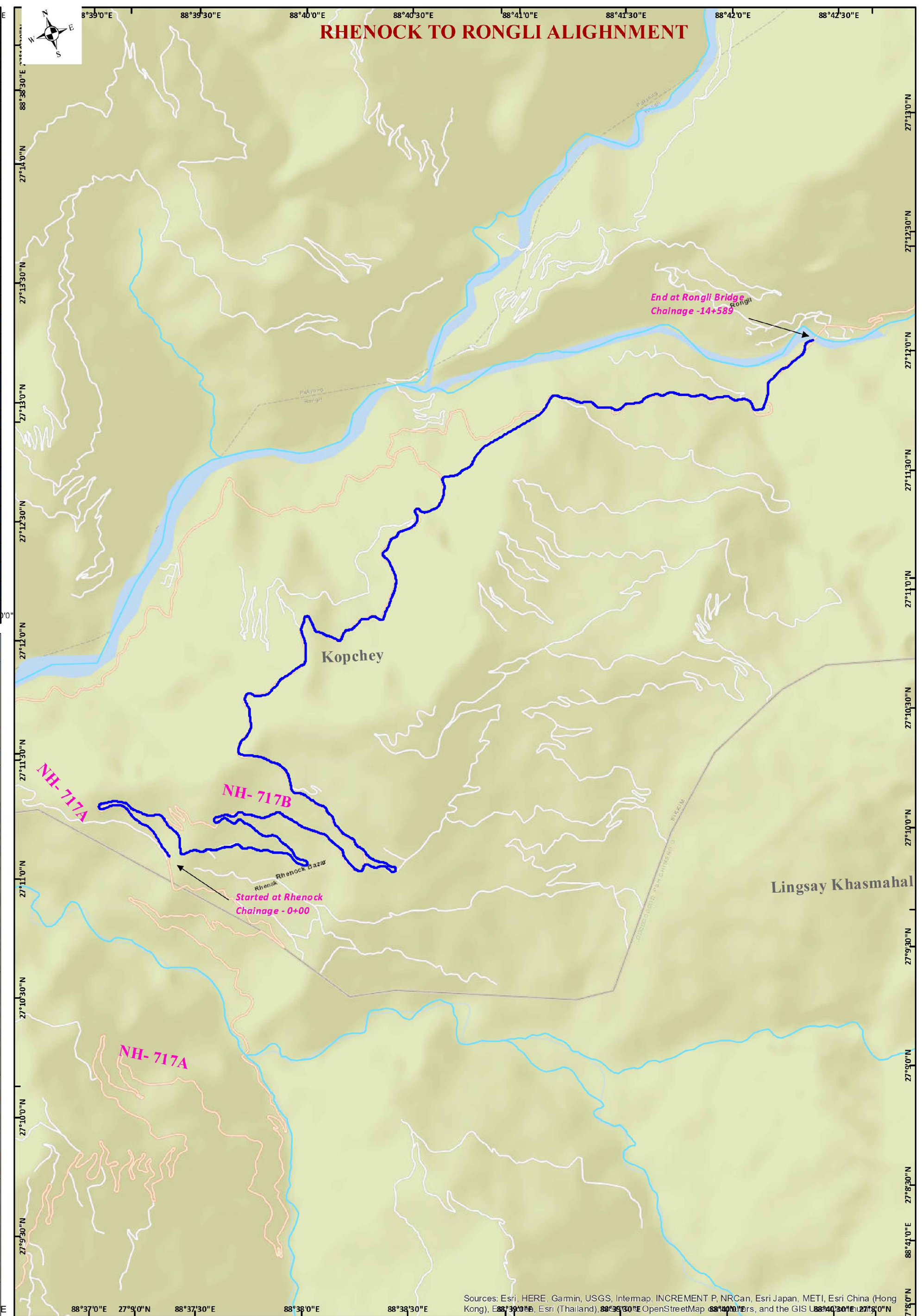
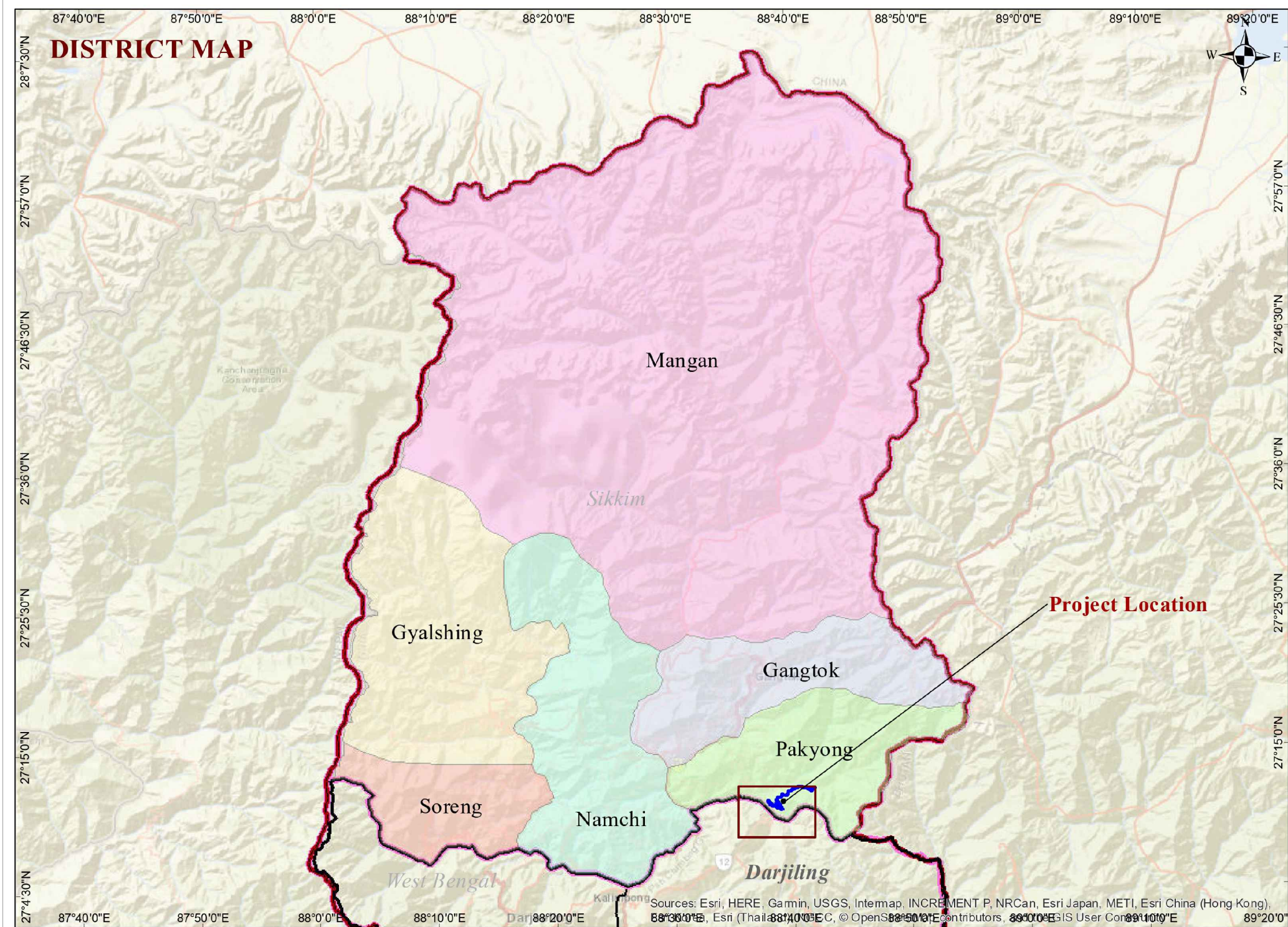
JAN-2025

RHENOCK TO RONGLI BAZAAR

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5.	ROW LIST	XPL/DSD/SK/KM20.6/ROW	09
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h.	TYPICAL CANTILEVER TYPE OVERHEAD SIGN	XPL/DSD/SK/KM20.6/OS	01
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KEY PLAN

TBM & DGPS LIST

TBM Details Of Rhenock (0+000) To Rongli Bazzar (15+505)						
Sl. No	Nos	Chainage	Location	Easting	Norting	Elevation
1	TS-41	0+010	RHS	661924.279	3007588.949	839.663
2	GPS-3	0+015	LHS	661913.973	3007595.711	839.965
3	TS-42	0+145	LHS	661874.926	3007719.294	842.515
4	P-19	0+195	LHS	661861.084	3007767.020	845.019
5	TS-43	0+275	RHS	661845.824	3007843.669	849.593
6	TS-44	0+435	LHS	661737.403	3007963.659	856.685
7	P-20	0+490	LHS	661710.797	3008010.617	859.454
8	TS-45	0+570	RHS	661678.761	3008086.011	863.864
9	TS-46	0+645	RHS	661609.896	3008118.578	868.410
10	P-21	0+665	LHS	661591.999	3008111.926	868.505
11	TS-47	0+755	RHS	661501.740	3008111.694	872.391
12	TS-48	0+805	RHS	661510.185	3008129.968	875.058
13	TS-49	0+915	LHS	661621.969	3008137.523	879.738
14	P-22	0+950	LHS	661656.632	3008128.412	880.277
15	TS-50	1+010	RHS	661711.051	3008099.436	880.532
16	TS-51	1+095	RHS	661756.168	3008028.850	884.279
17	TS-52	1+230	LHS	661864.261	3007950.332	890.851
18	P-23	1+230	RHS	661859.980	3007942.068	891.045
19	TS-53	1+315	LHS	661945.537	3007936.376	896.462
20	BM-3	1+320	LHS	661953.478	3007935.349	896.236
21	TS-54	1+455	RHS	661994.088	3007802.302	902.854
22	P-24	1+480	RHS	662006.861	3007781.579	904.143
23	TS-55	1+645	RHS	662022.790	3007631.153	913.073
24	TS-56	1+705	RHS	662022.377	3007574.890	916.660
25	P-25	1+725	RHS	662042.911	3007562.183	918.213
26	TS-57	1+805	RHS	662120.472	3007573.378	921.195
27	TS-58	1+895	RHS	662204.521	3007537.699	926.766
28	P-26	1+965	LHS	662273.396	3007538.464	931.151
29	TS-59	2+050	RHS	662351.710	3007523.862	935.411
30	TS-60	2+190	LHS	662493.185	3007512.523	944.320
31	P-27	2+210	LHS	662504.684	3007494.978	945.434
32	TS-61	2+225	RHS	662502.052	3007480.685	946.363
33	TS-62	2+315	LHS	662630.475	3007423.667	953.747
34	P-28	2+475	RHS	662720.163	3007373.360	959.810
35	TS-63	2+535	LHS	662783.460	3007359.269	963.470

TBM Details Of Rhenock (0+000) To Rongli Bazzar (15+505)						
Sl. No	Nos	Chainage	Location	Easting	Norting	Elevation
36	TS-64	2+615	LHS	662853.704	3007323.394	967.713
37	TS-65	2+730	RHS	662908.318	3007223.139	974.749
38	TS-66	2+805	LHS	662972.278	3007199.959	978.280
39	GPS-4	2+780	LHS	662952.035	3007195.242	977.970
40	TS-67	2+840	LHS	662971.426	3007225.813	979.369
41	TS-68	2+920	RHS	662912.531	3007276.612	983.326
42	P-29	3+015	LHS	662873.983	3007356.794	988.533
43	TS-69	3+040	LHS	662857.769	3007380.398	989.983
44	TS-70	3+180	RHS	662793.278	3007500.500	997.449
45	P-30	3+250	RHS	662718.536	3007514.483	1001.369
46	TS-71	3+280	LHS	662697.518	3007526.419	1002.476
47	BM-4	3+385	RHS	662646.545	3007609.617	1008.296
48	TS-72	3+410	RHS	662626.999	3007636.273	1009.300
49	TS-73	3+550	LHS	662520.208	3007684.417	1017.205
50	P-31	3+560	LHS	662510.763	3007681.488	1017.585
51	TS-74	3+655	LHS	662439.375	3007750.154	1023.853
52	TS-75	3+740	LHS	662360.799	3007752.452	1027.614
53	P-32	3+805	RHS	662422.226	3007765.715	1031.322
54	TS-76	3+815	LHS	662431.163	3007776.241	1031.575
55	TS-77	3+915	RHS	662523.233	3007739.198	1035.819
56	TS-78	3+975	LHS	662581.834	3007763.306	1039.136
57	TS-79	4+035	LHS	662622.881	3007726.426	1041.679
58	TS-80	4+180	RHS	662753.298	3007655.427	1049.931
59	P-34	4+300	LHS	662875.303	3007674.981	1056.039
60	TS-81	4+310	LHS	662881.546	3007670.708	1056.403
61	TS-82	4+445	RHS	662970.028	3007566.934	1062.338
62	TS-83	4+580	RHS	663060.299	3007469.990	1062.487
63	P-35	4+520	RHS	663015.802	3007504.980	1062.722
64	TS-84	4+730	RHS	663187.777	3007377.757	1065.327
65	P-36	4+750	RHS	663194.541	3007364.690	1066.104
66	TS-85	4+915	RHS	663280.399	3007223.970	1076.198
67	TS-86	4+980	RHS	663283.548	3007156.274	1079.646
68	P-37	5+030	RHS	663298.307	3007112.816	1081.337
69	TS-87	5+130	RHS	663352.679	3007023.057	1086.988
70	TS-88	5+290	RHS	663478.525	3007015.352	1095.952

REV. No.	DESCRIPTION	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Design By: RK	TITLE: TBM and DGPS List Rhenock To Rongli Bazzar	
					Drawn By : M.K		
					Checked By : AH		
					Approved By : VY		
					SCALE- NTS	DWG NO:XPL/DSD/SK/KM15.3/TBM/DGPS/01	
						Sheet : 01 OF 03	DATE: Nov-2024

TBM Details Of Rhenock (0+000) To Rongli Bazzar (15+505)						
Sl. No	Nos	Chainage	Location	Easting	Norting	Elevation
71	TS-89	5+390	LHS	663576.653	3007002.062	1102.704
72	TS-90	5+470	RHS	663626.474	3006931.568	1106.162
73	TS-91	5+515	RHS	663665.087	3006946.836	1107.770
74	P-39	5+550	LHS	663637.509	3006964.271	1109.716
75	TS-92	5+850	RHS	663610.081	3006991.452	1111.559
76	TS-93	5+750	RHS	663486.842	3007096.015	1119.965
77	P-40	5+780	LHS	663464.295	3007118.163	1121.892
78	TS-94	5+840	LHS	663446.920	3007173.509	1124.604
79	TS-95	5+910	LHS	663400.270	3007226.398	1127.432
80	GPS-5	6+020	RHS	663359.946	3007321.896	1134.197
81	TS-96	6+030	LHS	663346.904	3007324.645	1134.828
82	TS-97	6+170	LHS	663281.564	3007454.146	1142.387
83	P-41	6+280	LHS	663254.176	3007553.248	1147.494
84	TS-98	6+310	LHS	663252.355	3007583.926	1148.765
85	TS-99	6+510	LHS	663123.437	3007733.094	1159.395
86	P-42	6+530	LHS	663111.525	3007744.446	1160.083
87	TS-100	6+620	LHS	663035.771	3007792.392	1164.589
88	TS-101	6+780	RHS	663043.172	3007951.258	1172.562
89	P-43	6+795	RHS	663039.788	3007968.305	1173.573
90	TS-102	6+890	RHS	662987.960	3008051.190	1178.267
91	TS-103	6+940	RHS	662945.263	3008074.876	1180.781
92	P-44	7+020	RHS	662892.453	3008135.036	1185.324
93	TS-104	7+030	RHS	662879.723	3008138.942	1185.710
94	TS-105	7+165	RHS	662758.534	3008192.448	1191.540
95	TS-106	7+230	LHS	662706.213	3008229.665	1192.017
96	A-2	7+280	LHS	662730.097	3008278.480	1191.560
97	P-45	7+290	LHS	662734.719	3008288.374	1191.387
98	A-3	7+330	RHS	662762.710	3008314.813	1189.856
99	TS-107	7+410	RHS	662833.761	3008353.260	1185.812
100	TS-108	7+500	RHS	662875.391	3008428.652	1180.421
101	P-46	7+555	LHS	662877.588	3008483.852	1177.503
102	TS-109	7+615	LHS	662892.739	3008541.405	1174.202
103	TS-110	7+715	LHS	662884.076	3008639.780	1165.328
104	TS-111	7+760	LHS	662915.397	3008670.267	1164.291
105	P-47	7+820	LHS	662972.548	3008637.414	1163.210

TBM Details Of Rhenock (0+000) To Rongli Bazzar (15+505)						
Sl. No	Nos	Chainage	Location	Easting	Norting	Elevation
106	TS-113	7+950	LHS	663092.024	3008622.111	1157.766
107	P-48	8+100	LHS	663207.227	3008702.907	1151.448
108	TS-114	8+120	LHS	663232.933	3008708.016	1150.910
109	TS-115	8+240	RHS	663349.254	3008738.096	1149.623
110	P-49	8+370	LHS	663451.409	3008805.067	1142.657
111	TS-116	8+500	RHS	663486.823	3008929.370	1137.106
112	TS-117	8+620	LHS	663492.376	3009052.492	1129.166
113	P-50	8+630	LHS	663491.806	3009053.900	1129.012
114	TS-118	8+735	LHS	663567.926	3009135.333	1124.797
115	TS-119	8+800	LHS	663592.413	3009074.929	1120.114
116	TS-120	8+880	LHS	663599.194	3008995.602	1115.523
117	P-51	8+890	LHS	663606.976	3008987.172	1115.076
118	TS-121	8+945	RHS	663647.128	3008955.641	1112.380
119	BM-5	8+985	RHS	663673.498	3008925.062	1110.239
120	GPS-6	9+045	LHS	663724.881	3008892.583	1106.856
121	TS-122	9+100	LHS	663768.037	3008855.929	1103.316
122	TS-123	9+210	LHS	663830.101	3008924.464	1096.576
123	TS-124	9+270	RHS	663894.508	3008918.886	1093.311
124	P-52	9+340	RHS	663955.035	3008945.994	1089.922
125	TS-125	9+380	RHS	663981.292	3008970.128	1088.010
126	TS-126	9+490	RHS	664088.881	3008964.579	1082.324
127	TS-127	9+565	RHS	664146.639	3008911.421	1079.256
128	P-53	9+580	LHS	664153.315	3008924.482	1078.157
129	P-54	9+820	LHS	664304.696	3009116.460	1063.156
130	TS-128	9+860	RHS	664328.242	3009143.007	1060.664
131	TS-129	9+960	RHS	664362.623	3009244.233	1055.575
132	P-55	10+020	RHS	664352.785	3009301.716	1052.386
133	TS-130	10+070	LHS	664339.560	3009350.736	1049.228
134	TS-131	10+160	LHS	664301.463	3009430.027	1044.269
135	P-56	10+170	LHS	664300.994	3009441.219	1044.230
136	TS132	10+240	LHS	664369.399	3009475.399	1038.885
137	TS-133	10+310	RHS	664412.880	3009526.138	1034.152
138	TS-134	10+360	LHS	664453.146	3009535.329	1031.700
139	TS-135	10+410	LHS	664496.714	3009566.178	1028.287
140	P-57	10+430	LHS	664514.331	3009569.914	1027.365

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE: TBM and DGPS List Rhenock To Rongli Bazzar	
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K		
					Checked By : AH		
					Approved By : VY		
					SCALE- NTS	DWG NO:XPL/DSD/SK/KM15.3/TBM/DGPS/02	
						Sheet : 02 OF 03	DATE: Nov-2024

TBM Details Of Rhenock (0+000) To Rongli Bazzar (15+505)						
Sl. No	Nos	Chainage	Location	Easting	Norting	Elevation
141	TS-136	10+520	RHS	664605.020	3009570.604	1021.295
142	TS-137	10+590	RHS	664665.685	3009618.529	1016.781
143	P-58	10+630	LHS	664664.644	3009658.314	1014.445
144	TS-138	10+680	LHS	664676.792	3009703.227	1012.198
145	TS-139	10+780	LHS	664757.945	3009656.517	1006.054
146	TS-140	10+870	RHS	664850.937	3009664.243	1001.590
147	P-59	10+890	LHS	664860.846	3009682.891	1000.834
148	TS-141	10+985	RHS	664930.885	3009751.790	999.433
149	TS-142	11+120	LHS	664959.103	3009882.244	989.943
150	P-60	11+120	LHS	664967.589	3009886.679	989.462
151	TS-143	11+230	LHS	665067.636	3009873.508	983.472
152	TS-144	11+355	RHS	665191.575	3009902.147	977.542
153	P-61	11+400	LHS	665222.138	3009933.135	975.574
154	TS-145	11+470	LHS	665276.365	3009979.041	972.283
155	P-62	11+645	RHS	665421.171	3010074.905	965.768
156	TS-146	11+690	LHS	665455.605	3010107.708	964.403
157	TS-147	11+760	LHS	665520.478	3010120.958	962.082
158	TS-148	11+900	LHS	665649.925	3010162.572	955.650
159	GPS-7	11+920	LHS	665669.184	3010173.842	955.055
160	TS-149	12+000	RHS	665745.374	3010183.748	950.189
161	P-63	12+140	LHS	665880.903	3010166.442	944.241
162	TS-150	12+150	RHS	665896.153	3010160.935	943.458
163	M-2	12+310	LHS	666015.002	3010260.028	935.350
164	P-64	13+370	RHS	666070.003	3010217.212	931.012
165	TS-151	12+520	LHS	666196.287	3010149.848	923.614
166	P-65	12+610	LHS	666281.266	3010128.629	918.041
167	TS-152	12+620	RHS	666289.156	3010114.325	917.157
168	TS-153	12+720	LHS	666355.732	3010050.384	912.948
169	TS-154	2+800	RHS	666429.135	3010027.125	907.554
170	TS-155	12+860	RHS	666478.048	3009997.586	904.719

TBM Details Of Rhenock (0+000) To Rongli Bazzar (15+505)						
Sl. No	Nos	Chainage	Location	Easting	Norting	Elevation
171	P-66	12+870	RHS	666478.293	3009998.848	904.738
172	TS-156	12+950	RHS	666564.747	3010014.615	898.594
173	TS-157	13+050	RHS	666660.416	3009991.813	892.907
174	TS-158	13+140	LHS	666742.973	3010024.736	888.806
175	TS-159	13+210	RHS	666817.928	3010021.353	883.995
176	TS-160	13+280	RHS	666880.758	3009992.968	879.585
177	TS-161	13+350	LHS	666945.728	3010004.426	876.692
178	TS-162	13+470	RHS	667052.461	3009945.456	869.468
179	TS-163	13+530	LHS	667106.582	3009918.155	865.803
180	K-2	13+590	LHS	667163.537	3009913.679	863.598
181	K-1	13+680	LHS	667238.145	3009858.374	860.106
182	K-3	13+810	LHS	667360.523	3009836.061	851.929
183	K-4	13+900	LHS	667434.017	3009783.274	847.192
184	K-5	13+385	LHS	667515.179	3009762.161	839.884
185	K-6	14+030	LHS	667540.087	3009722.911	839.611
186	K-7	14+140	RHS	667538.255	3009608.446	840.170
187	K-8	14+190	LHS	667581.713	3009618.080	840.033
188	K-9	14+270	LHS	667633.410	3009674.303	837.425
189	K-10	14+360	LHS	667676.036	3009750.294	833.196
190	K-11	14+440	LHS	667704.503	3009828.912	828.483
191	K-12	14+610	RHS	667853.375	3009910.697	819.201
192	K-13	14+790	RHS	668019.249	3009962.800	810.544
193	K-14	14+860	LHS	668069.312	3010001.524	808.388
194	K-15	14+930	LHS	668113.278	3010069.593	807.053
195	GPS-8	14+940	LHS	668121.978	3010073.294	807.144
196	K-16	14+986	LHS	668183.036	3010070.376	806.579

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE: TBM and DGPS List Rhenock To Rongli Bazzar	
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K		
					Checked By : AH		
					Approved By : VY		
					SCALE- NTS	DWG NO:XPL/DSD/SK/KM15.3/TBM/DGPS/03	
						Sheet : 03 OF 03	DATE: Nov-2024

PROPOSED CENTRELINE CO-ORDINATES

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
1	0	661920.856	3007585.219
2	20	661916.573	3007604.754
3	40	661911.286	3007624.039
4	60	661904.727	3007642.929
5	80	661897.319	3007661.506
6	100	661890.600	3007680.338
7	120	661885.344	3007699.631
8	140	661880.698	3007719.084
9	160	661876.056	3007738.538
10	180	661871.415	3007757.992
11	200	661866.774	3007777.446
12	220	661862.133	3007796.9
13	240	661857.346	3007816.318
14	260	661850.563	3007835.112
15	280	661840.983	3007852.645
16	300	661828.828	3007868.504
17	320	661814.601	3007882.548
18	340	661799.935	3007896.146
19	360	661785.268	3007909.744
20	380	661770.973	3007923.722
21	400	661758.445	3007939.294
22	420	661748.099	3007956.392
23	440	661739.411	3007974.406
24	460	661730.866	3007992.488
25	480	661722.322	3008010.571
26	500	661713.777	3008028.654
27	520	661705.23	3008046.736
28	540	661695.733	3008064.32
29	560	661683.581	3008080.176
30	580	661668.968	3008093.797

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
31	600	661652.297	3008104.804
32	620	661634.032	3008112.894
33	640	661614.677	3008117.841
34	660	661594.77	3008119.509
35	680	661574.823	3008118.194
36	700	661554.922	3008116.203
37	720	661535.022	3008114.212
38	740	661515.087	3008112.962
39	760	661497.291	3008121.128
40	780	661489.179	3008138.949
41	800	661493.865	3008157.959
42	820	661509.854	3008169.256
43	840	661529.65	3008168.573
44	860	661549.275	3008164.72
45	880	661568.901	3008160.868
46	900	661588.526	3008157.015
47	920	661608.145	3008153.132
48	940	661627.377	3008147.714
49	960	661645.608	3008139.515
50	980	661663.547	3008130.673
51	1000	661681.486	3008121.83
52	1020	661699.267	3008112.685
53	1040	661714.441	3008099.799
54	1060	661725.252	3008083.013
55	1080	661735.027	3008065.564
56	1100	661745.603	3008048.601
57	1120	661758.694	3008033.517
58	1140	661773.681	3008020.28
59	1160	661788.965	3008007.38
60	1180	661804.249	3007994.48

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
61	1200	661819.532	3007981.58
62	1220	661834.901	3007968.783
63	1240	661851.639	3007957.905
64	1260	661870.444	3007951.223
65	1280	661890.035	3007947.208
66	1300	661909.674	3007943.425
67	1320	661929.043	3007938.529
68	1340	661946.401	3007928.779
69	1360	661959.615	3007913.89
70	1380	661967.356	3007895.533
71	1400	661971.524	3007875.977
72	1420	661975.364	3007856.349
73	1440	661979.848	3007836.865
74	1460	661987.31	3007818.345
75	1480	661998.029	3007801.481
76	1500	662009.894	3007785.38
77	1520	662021.785	3007769.299
78	1540	662033.321	3007752.968
79	1560	662041.681	3007734.868
80	1580	662044.656	3007715.159
81	1600	662042.3	3007695.34
82	1620	662037.696	3007675.877
83	1640	662033.012	3007656.433
84	1660	662028.327	3007636.99
85	1680	662023.665	3007617.541
86	1700	662022.251	3007597.722
87	1720	662031.696	3007580.512
88	1740	662049.751	3007572.755
89	1760	662069.681	3007573.798
90	1780	662089.541	3007576.158

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:	
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with DSD Infratech Management Pvt. Ltd. In Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K		
					Checked By : AH		
					Approved By : VY	DWG NO: XPL/DSD/SK/KM15.3/CO/01	
					SCALE-NTS	Sheet No: 01 OF 08	DATE:Nov-2024

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
91	1800	662109.466	3007577.727
92	1820	662129.118	3007574.519
93	1840	662147.399	3007566.453
94	1860	662165.425	3007557.803
95	1880	662184.868	3007553.523
96	1900	662204.857	3007553.922
97	1920	662224.845	3007554.586
98	1940	662244.526	3007551.554
99	1960	662262.68	3007543.216
100	1980	662280.565	3007534.272
101	2000	662299.661	3007528.505
102	2020	662319.584	3007526.941
103	2040	662339.569	3007526.162
104	2060	662359.554	3007525.383
105	2080	662379.539	3007524.604
106	2100	662399.524	3007523.825
107	2120	662419.486	3007522.658
108	2140	662439.177	3007519.245
109	2160	662458.24	3007513.244
110	2180	662476.351	3007504.79
111	2200	662493.87	3007495.141
112	2220	662511.373	3007485.465
113	2240	662528.877	3007475.789
114	2260	662546.38	3007466.113
115	2280	662563.883	3007456.437
116	2300	662581.387	3007446.76
117	2320	662598.89	3007437.084
118	2340	662616.394	3007427.408
119	2360	662633.957	3007417.842
120	2380	662651.94	3007409.096

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
121	2400	662670.346	3007401.273
122	2420	662688.838	3007393.654
123	2440	662707.329	3007386.034
124	2460	662725.821	3007378.414
125	2480	662744.313	3007370.795
126	2500	662762.804	3007363.175
127	2520	662781.296	3007355.556
128	2540	662799.788	3007347.936
129	2560	662818.279	3007340.317
130	2580	662836.491	3007332.086
131	2600	662851.861	3007319.434
132	2620	662862.53	3007302.589
133	2640	662871.353	3007284.64
134	2660	662880.276	3007266.743
135	2680	662891.293	3007250.089
136	2700	662905.389	3007235.948
137	2720	662922.013	3007224.889
138	2740	662940.413	3007217.098
139	2760	662959.225	3007210.306
140	2780	662978.744	3007207.006
141	2800	662996.387	3007215.615
142	2820	663005.499	3007233.098
143	2840	663002.352	3007252.476
144	2860	662987.92	3007265.807
145	2880	662969.152	3007272.695
146	2900	662950.265	3007279.272
147	2920	662931.849	3007287.025
148	2940	662915.554	3007298.531
149	2960	662902.54	3007313.659
150	2980	662891.822	3007330.542

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
151	3000	662881.334	3007347.571
152	3020	662870.845	3007364.6
153	3040	662860.356	3007381.629
154	3060	662849.87	3007398.659
155	3080	662840.005	3007416.05
156	3100	662831.794	3007434.28
157	3120	662824.258	3007452.806
158	3140	662816.369	3007471.179
159	3160	662805.073	3007487.587
160	3180	662789.103	3007499.472
161	3200	662770.213	3007505.866
162	3220	662750.58	3007509.679
163	3240	662730.947	3007513.487
164	3260	662712.046	3007519.852
165	3280	662696.051	3007531.704
166	3300	662683.993	3007547.62
167	3320	662673.222	3007564.473
168	3340	662662.46	3007581.33
169	3360	662651.698	3007598.187
170	3380	662640.935	3007615.045
171	3400	662629.796	3007631.651
172	3420	662616.692	3007646.729
173	3440	662601.272	3007659.43
174	3460	662583.959	3007669.397
175	3480	662565.247	3007676.403
176	3500	662545.918	3007681.533
177	3520	662526.538	3007686.476
178	3540	662507.618	3007692.858
179	3560	662490.423	3007703.033
180	3580	662473.726	3007714.043

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:	
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K		
					Checked By : AH		
					Approved By : VY	DWG NO: XPL/DSD/SK/KM15.3/CO/02	
					SCALE-NTS	Sheet No: 02 OF 08	DATE:Nov-2024

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
181	3600	662456.971	3007724.962
182	3620	662439.059	3007733.788
183	3640	662419.757	3007738.894
184	3660	662399.827	3007740.347
185	3680	662379.834	3007740.823
186	3700	662361.282	3007747.256
187	3720	662351.677	3007764.279
188	3740	662355.165	3007783.619
189	3760	662370.422	3007795.836
190	3780	662390.109	3007795.203
191	3800	662409.348	3007789.742
192	3820	662428.584	3007784.264
193	3840	662447.643	3007778.214
194	3860	662466.258	3007770.908
195	3880	662484.779	3007763.358
196	3900	662503.814	3007757.378
197	3920	662523.754	3007757.101
198	3940	662543.672	3007758.911
199	3960	662563.603	3007760.538
200	3980	662583.372	3007758.168
201	4000	662601.391	3007749.651
202	4020	662618.216	3007738.839
203	4040	662635.031	3007728.01
204	4060	662651.845	3007717.181
205	4080	662668.66	3007706.352
206	4100	662685.475	3007695.523
207	4120	662702.289	3007684.694
208	4140	662719.121	3007673.892
209	4160	662736.919	3007664.86
210	4180	662756.536	3007661.458

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
211	4200	662776.461	3007662.988
212	4220	662796.314	3007665.41
213	4240	662816.167	3007667.831
214	4260	662836.02	3007670.253
215	4280	662855.943	3007671.818
216	4300	662875.575	3007668.502
217	4320	662893.046	3007658.96
218	4340	662907.107	3007644.786
219	4360	662919.917	3007629.427
220	4380	662932.716	3007614.058
221	4400	662945.515	3007598.69
222	4420	662958.313	3007583.321
223	4440	662971.112	3007567.952
224	4460	662983.911	3007552.584
225	4480	662996.709	3007537.215
226	4500	663009.508	3007521.847
227	4520	663022.501	3007506.645
228	4540	663036.705	3007492.576
229	4560	663052.234	3007479.985
230	4580	663068.446	3007468.273
231	4600	663084.681	3007456.593
232	4620	663100.916	3007444.913
233	4640	663117.151	3007433.232
234	4660	663133.386	3007421.552
235	4680	663149.62	3007409.872
236	4700	663165.855	3007398.191
237	4720	663181.828	3007386.163
238	4740	663195.933	3007372.028
239	4760	663207.027	3007355.421
240	4780	663216.168	3007337.634

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
241	4800	663225.128	3007319.754
242	4820	663234.632	3007302.16
243	4840	663245.44	3007285.338
244	4860	663256.828	3007268.896
245	4880	663268.223	3007252.46
246	4900	663279.128	3007235.711
247	4920	663284.625	3007216.619
248	4940	663283.49	3007196.686
249	4960	663282.128	3007176.761
250	4980	663287.463	3007157.581
251	5000	663294.879	3007139.007
252	5020	663302.296	3007120.433
253	5040	663309.712	3007101.859
254	5060	663317.129	3007083.285
255	5080	663324.569	3007064.721
256	5100	663333.555	3007046.887
257	5120	663346.729	3007031.929
258	5140	663363.584	3007021.29
259	5160	663382.749	3007015.8
260	5180	663402.67	3007014.112
261	5200	663422.638	3007012.97
262	5220	663442.605	3007011.827
263	5240	663462.573	3007010.685
264	5260	663482.54	3007009.543
265	5280	663502.507	3007008.4
266	5300	663522.475	3007007.258
267	5320	663542.441	3007006.102
268	5340	663562.051	3007002.529
269	5360	663579.503	3006992.952
270	5380	663593.023	3006978.309

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:	
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K		
					Checked By : AH	DWG NO: XPL/DSD/SK/KM15.3/CO/03	
					Approved By : VY	Sheet No: 03 OF 08	
					SCALE-NTS	DATE:Nov-2024	

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
271	5400	663604.571	3006961.98
272	5420	663616.633	3006946.057
273	5440	663634.605	3006938.549
274	5460	663652.514	3006946.191
275	5480	663660.584	3006964.036
276	5500	663653.849	3006982.305
277	5520	663637.078	3006993.011
278	5540	663619.312	3007002.196
279	5560	663601.545	3007011.38
280	5580	663583.779	3007020.565
281	5600	663566.013	3007029.749
282	5620	663548.514	3007039.423
283	5640	663532.102	3007050.836
284	5660	663516.744	3007063.644
285	5680	663501.637	3007076.748
286	5700	663488.144	3007091.48
287	5720	663477.281	3007108.245
288	5740	663469.232	3007126.536
289	5760	663462.28	3007145.289
290	5780	663455.292	3007164.028
291	5800	663445.647	3007181.461
292	5820	663432.092	3007196.154
293	5840	663418.19	3007210.533
294	5860	663406.306	3007226.511
295	5880	663400.552	3007245.599
296	5900	663396.582	3007265.201
297	5920	663390.396	3007284.137
298	5940	663378.006	3007299.729
299	5960	663363.712	3007313.718
300	5980	663349.414	3007327.703

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
301	6000	663336.115	3007342.602
302	6020	663326.361	3007360.027
303	6040	663317.885	3007378.142
304	6060	663309.41	3007396.257
305	6080	663300.935	3007414.373
306	6100	663293.501	3007432.914
307	6120	663290.352	3007452.62
308	6140	663289.439	3007472.6
309	6160	663288.355	3007492.568
310	6180	663284.903	3007512.245
311	6200	663278.811	3007531.289
312	6220	663272.347	3007550.216
313	6240	663265.883	3007569.143
314	6260	663259.132	3007587.964
315	6280	663248.42	3007604.744
316	6300	663233.342	3007617.841
317	6320	663217.563	3007630.131
318	6340	663201.996	3007642.681
319	6360	663188.207	3007657.139
320	6380	663175.733	3007672.772
321	6400	663163.3	3007688.437
322	6420	663150.866	3007704.102
323	6440	663138.432	3007719.767
324	6460	663125.859	3007735.319
325	6480	663111.02	3007748.652
326	6500	663093.495	3007758.231
327	6520	663075.356	3007766.655
328	6540	663058.237	3007776.86
329	6560	663046.017	3007792.524
330	6580	663040.856	3007811.71

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
331	6600	663041.057	3007831.701
332	6620	663041.654	3007851.692
333	6640	663042.25	3007871.683
334	6660	663042.847	3007891.674
335	6680	663043.443	3007911.665
336	6700	663043.874	3007931.659
337	6720	663041.877	3007951.532
338	6740	663036.322	3007970.716
339	6760	663027.465	3007988.624
340	6780	663017.256	3008005.822
341	6800	663007.031	3008023.011
342	6820	662995.538	3008039.339
343	6840	662980.596	3008052.564
344	6860	662964.159	3008063.959
345	6880	662947.81	3008075.476
346	6900	662932.624	3008088.471
347	6920	662918.595	3008102.725
348	6940	662904.618	3008117.029
349	6960	662889.442	3008130.023
350	6980	662872.398	3008140.456
351	7000	662854.756	3008149.878
352	7020	662837.112	3008159.296
353	7040	662819.35	3008168.484
354	7060	662800.87	3008176.108
355	7080	662781.943	3008182.571
356	7100	662762.999	3008188.984
357	7120	662744.867	3008197.24
358	7140	662731.514	3008211.909
359	7160	662725.766	3008230.894
360	7180	662728.738	3008250.506

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K	Centre Line Co-ordinates List Rhenock To Rongli bazaar
					Checked By : AH	
					Approved By : VY	
					SCALE-NTS	DWG NO: XPL/DSD/SK/KM15.3/CO/04
						Sheet No: 04 OF 08
						DATE:Nov-2024

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
361	7200	662737.879	3008268.278
362	7220	662747.567	3008285.775
363	7240	662759.192	3008301.969
364	7260	662775.174	3008313.884
365	7280	662792.51	3008323.857
366	7300	662809.56	3008334.296
367	7320	662824.727	3008347.298
368	7340	662839.018	3008361.29
369	7360	662853.056	3008375.53
370	7380	662864.687	3008391.743
371	7400	662872.002	3008410.302
372	7420	662875.596	3008429.965
373	7440	662878.402	3008449.767
374	7460	662881.531	3008469.519
375	7480	662885.878	3008489.039
376	7500	662890.504	3008508.496
377	7520	662895.13	3008527.954
378	7540	662899.756	3008547.412
379	7560	662904.382	3008566.869
380	7580	662909.705	3008586.135
381	7600	662919.326	3008603.568
382	7620	662934.1	3008616.912
383	7640	662952.426	3008624.687
384	7660	662972.294	3008626.228
385	7680	662992.201	3008624.323
386	7700	663012.085	3008622.172
387	7720	663031.969	3008620.022
388	7740	663051.853	3008617.876
389	7760	663071.812	3008617.15
390	7780	663091.145	3008621.905

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
391	7800	663108.656	3008631.524
392	7820	663125.633	3008642.098
393	7840	663142.609	3008652.671
394	7860	663159.586	3008663.244
395	7880	663176.562	3008673.818
396	7900	663193.646	3008684.215
397	7920	663211.309	3008693.586
398	7940	663229.657	3008701.533
399	7960	663248.394	3008708.526
400	7980	663267.175	3008715.402
401	8000	663285.956	3008722.278
402	8020	663304.737	3008729.154
403	8040	663323.518	3008736.029
404	8060	663342.299	3008742.905
405	8080	663361.134	3008749.628
406	8100	663380.509	3008754.531
407	8120	663400.262	3008757.655
408	8140	663419.674	3008762.267
409	8160	663436.74	3008772.518
410	8180	663449.512	3008787.788
411	8200	663457.402	3008806.133
412	8220	663464.255	3008824.922
413	8240	663471.107	3008843.712
414	8260	663477.96	3008862.501
415	8280	663484.351	3008881.447
416	8300	663488.707	3008900.956
417	8320	663490.742	3008920.84
418	8340	663490.696	3008940.836
419	8360	663490.205	3008960.83
420	8380	663489.715	3008980.824

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
421	8400	663489.224	3009000.818
422	8420	663489.112	3009020.813
423	8440	663492.665	3009040.424
424	8460	663501.823	3009058.128
425	8480	663514.053	3009073.948
426	8500	663526.56	3009089.554
427	8520	663540.316	3009103.952
428	8540	663559.323	3009108.869
429	8560	663577.543	3009101.403
430	8580	663587.5	3009084.475
431	8600	663589.729	3009064.612
432	8620	663591.502	3009044.691
433	8640	663593.276	3009024.769
434	8660	663596.8	3009005.134
435	8680	663606.132	3008987.549
436	8700	663620.591	3008973.834
437	8720	663636.789	3008962.104
438	8740	663653.001	3008950.391
439	8760	663669.073	3008938.49
440	8780	663684.295	3008925.526
441	8800	663698.503	3008911.455
442	8820	663712.386	3008897.058
443	8840	663727.584	3008884.163
444	8860	663746.352	3008877.646
445	8880	663766.176	3008878.952
446	8900	663783.957	3008887.833
447	8920	663799.442	3008900.488
448	8940	663815.257	3008912.703
449	8960	663833.662	3008920.29
450	8980	663853.546	3008921.929

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:	
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K		
					Checked By : AH	Centre Line Co-ordinates List Rhenock To Rongli bazaar	
					Approved By : VY	DWG NO: XPL/DSD/SK/KM15.3/CO/05	
					SCALE-NTS	Sheet No: 05 OF 08	DATE:Nov-2024

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
451	9000	663873.546	3008921.865
452	9020	663893.502	3008922.758
453	9040	663912.516	3008928.781
454	9060	663930.921	3008936.609
455	9080	663949.325	3008944.438
456	9100	663967.729	3008952.267
457	9120	663986.21	3008959.906
458	9140	664005.534	3008964.932
459	9160	664025.471	3008966.021
460	9180	664045.227	3008963.127
461	9200	664064.014	3008956.365
462	9220	664081.393	3008946.486
463	9240	664098.466	3008936.07
464	9260	664115.784	3008926.087
465	9280	664135.1	3008921.439
466	9300	664154.701	3008924.679
467	9320	664171.493	3008935.297
468	9340	664184.296	3008950.636
469	9360	664196.538	3008966.452
470	9380	664208.78	3008982.267
471	9400	664221.022	3008998.083
472	9420	664233.264	3009013.899
473	9440	664245.506	3009029.715
474	9460	664257.748	3009045.53
475	9480	664269.989	3009061.346
476	9500	664282.231	3009077.162
477	9520	664294.473	3009092.977
478	9540	664306.715	3009108.793
479	9560	664318.957	3009124.609
480	9580	664331.199	3009140.425
481	9600	664342.794	3009156.707

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
482	9620	664351.767	3009174.555
483	9640	664357.655	3009193.644
484	9660	664360.295	3009213.446
485	9680	664359.665	3009233.416
486	9700	664357.471	3009253.295
487	9720	664355.248	3009273.171
488	9740	664353.026	3009293.047
489	9760	664350.796	3009312.923
490	9780	664347.437	3009332.624
491	9800	664341.199	3009351.605
492	9820	664332.173	3009369.434
493	9840	664321.912	3009386.601
494	9860	664312.48	3009404.199
495	9880	664311.387	3009423.897
496	9900	664321.121	3009441.058
497	9920	664337.218	3009452.883
498	9940	664353.801	3009464.062
499	9960	664370.385	3009475.241
500	9980	664386.969	3009486.421
501	10000	664403.553	3009497.6
502	10020	664420.137	3009508.779
503	10040	664436.721	3009519.959
504	10060	664453.304	3009531.138
505	10080	664469.888	3009542.317
506	10100	664486.665	3009553.197
507	10120	664504.894	3009561.311
508	10140	664524.543	3009564.796
509	10160	664544.532	3009565.36
510	10180	664564.53	3009565.663
511	10200	664584.425	3009567.502
512	10220	664603.75	3009572.563

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
513	10240	664621.968	3009580.759
514	10260	664638.574	3009591.864
515	10280	664653.108	3009605.569
516	10300	664665.956	3009620.894
517	10320	664678.976	3009636.066
518	10340	664695.153	3009647.668
519	10360	664714.236	3009653.339
520	10380	664734.213	3009654.016
521	10400	664754.213	3009654.13
522	10420	664774.212	3009654.243
523	10440	664794.206	3009654.628
524	10460	664814.05	3009657.014
525	10480	664833.442	3009661.856
526	10500	664852.078	3009669.078
527	10520	664869.669	3009678.567
528	10540	664885.94	3009690.175
529	10560	664900.636	3009703.721
530	10580	664913.529	3009718.993
531	10600	664924.418	3009735.754
532	10620	664933.131	3009753.742
533	10640	664939.534	3009772.675
534	10660	664943.527	3009792.26
535	10680	664945.459	3009812.163
536	10700	664947.06	3009832.099
537	10720	664949.827	3009851.864
538	10740	664960.128	3009868.764
539	10760	664977.272	3009878.656
540	10780	664997.086	3009879.294
541	10800	665016.707	3009875.423
542	10820	665036.315	3009871.481
543	10840	665055.94	3009867.632

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:	
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, In Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K		
					Checked By : AH		
					Approved By : VY	DWG NO: XPL/DSD/SK/KM15.3/CO/06	
					SCALE-NTS	Sheet No: 06 OF 08	DATE:Nov-2024

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
544	10860	665075.786	3009865.235
545	10880	665095.775	3009865.05
546	10900	665115.661	3009867.083
547	10920	665135.199	3009871.308
548	10940	665154.148	3009877.674
549	10960	665172.274	3009886.101
550	10980	665189.354	3009896.487
551	11000	665205.183	3009908.695
552	11020	665220.185	3009921.922
553	11040	665235.149	3009935.191
554	11060	665250.113	3009948.461
555	11080	665265.077	3009961.73
556	11100	665280.041	3009975
557	11120	665295.023	3009988.249
558	11140	665310.965	3010000.293
559	11160	665328.656	3010009.572
560	11180	665347.642	3010015.787
561	11200	665367.395	3010018.767
562	11220	665387.381	3010018.628
563	11240	665407.351	3010017.528
564	11260	665427.32	3010016.428
565	11280	665447.29	3010015.327
566	11300	665467.261	3010014.246
567	11320	665487.251	3010013.699
568	11340	665507.235	3010014.404
569	11360	665527.127	3010016.439
570	11380	665546.84	3010019.794
571	11400	665566.326	3010024.293
572	11420	665585.73	3010029.141
573	11440	665605.132	3010033.992
574	11460	665624.535	3010038.843

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
575	11480	665643.938	3010043.694
576	11500	665663.341	3010048.545
577	11520	665682.743	3010053.396
578	11540	665702.146	3010058.247
579	11560	665721.549	3010063.098
580	11580	665740.952	3010067.949
581	11600	665760.328	3010072.902
582	11620	665779.429	3010078.82
583	11640	665798.093	3010085.997
584	11660	665816.237	3010094.402
585	11680	665833.781	3010103.997
586	11700	665850.646	3010114.74
587	11720	665866.759	3010126.582
588	11740	665882.047	3010139.471
589	11760	665896.524	3010153.267
590	11780	665910.789	3010167.286
591	11800	665925.054	3010181.304
592	11820	665939.318	3010195.323
593	11840	665953.583	3010209.341
594	11860	665967.847	3010223.36
595	11880	665982.148	3010237.342
596	11900	665998.355	3010248.925
597	11920	666017.415	3010254.672
598	11940	666037.306	3010253.866
599	11960	666055.839	3010246.596
600	11980	666072.096	3010234.962
601	12000	666088.072	3010222.931
602	12020	666104.049	3010210.9
603	12040	666120.026	3010198.869
604	12060	666136.002	3010186.838
605	12080	666151.979	3010174.807

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
606	12100	666167.956	3010162.776
607	12120	666184.003	3010150.842
608	12140	666201.456	3010141.154
609	12160	666220.491	3010135.072
610	12180	666239.79	3010129.824
611	12200	666259.083	3010124.552
612	12220	666277.576	3010117.077
613	12240	666293.29	3010104.815
614	12260	666305.622	3010089.094
615	12280	666317.317	3010072.869
616	12300	666330.856	3010058.224
617	12320	666347.897	3010047.885
618	12340	666366.906	3010041.709
619	12360	666386.115	3010036.141
620	12380	666405.22	3010030.238
621	12400	666423.171	3010021.494
622	12420	666439.958	3010010.625
623	12440	666456.784	3009999.817
624	12460	666475.349	3009992.622
625	12480	666495.243	3009991.876
626	12500	666514.437	3009997.301
627	12520	666533.08	3010004.544
628	12540	666551.877	3010011.349
629	12560	666571.68	3010013.383
630	12580	666591.313	3010009.716
631	12600	666610.751	3010005.011
632	12620	666630.19	3010000.307
633	12640	666649.643	3009995.66
634	12660	666669.504	3009994.134
635	12680	666688.8	3009999.053
636	12700	666706.923	3010007.508

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:	
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, In Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K		
					Checked By : AH		
					Approved By : VY	DWG NO: XPL/DSD/SK/KM15.3/CO/07	
					SCALE-NTS	Sheet No: 07 OF 08	DATE:Nov-2024

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
637	12720	666725.069	3010015.913
638	12740	666744.279	3010021.292
639	12760	666764.215	3010022.775
640	12780	666784.192	3010023.742
641	12800	666804.143	3010023.222
642	12820	666822.998	3010016.82
643	12840	666840.389	3010006.946
644	12860	666858.415	3009998.408
645	12880	666878.218	3009996.661
646	12900	666898.082	3009998.978
647	12920	666917.945	3010001.313
648	12940	666937.834	3010000.265
649	12960	666956.307	3009992.841
650	12980	666972.759	3009981.477
651	13000	666989.044	3009969.867
652	13020	667005.824	3009959.023
653	13040	667024.628	3009952.341
654	13060	667043.976	3009947.279
655	13080	667062.048	3009938.909
656	13100	667077.862	3009926.675
657	13120	667094.925	3009916.414
658	13140	667114.505	3009912.705
659	13160	667134.438	3009911.074
660	13180	667154.309	3009908.908
661	13200	667172.933	3009901.874
662	13220	667188.803	3009889.754
663	13240	667203.977	3009876.725
664	13260	667219.237	3009863.799
665	13280	667236.796	3009854.484
666	13300	667256.558	3009851.743
667	13320	667276.517	3009850.454

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
668	13340	667296.475	3009849.166
669	13360	667316.422	3009847.723
670	13380	667335.984	3009843.724
671	13400	667354.365	3009835.923
672	13420	667370.829	3009824.627
673	13440	667385.287	3009810.817
674	13460	667399.738	3009797.001
675	13480	667416.522	3009786.22
676	13500	667435.449	3009779.92
677	13520	667455.2	3009776.783
678	13540	667474.971	3009773.772
679	13560	667494.025	3009767.9
680	13580	667510.678	3009756.947
681	13600	667523.567	3009741.743
682	13620	667531.65	3009723.524
683	13640	667534.361	3009703.767
684	13660	667534.418	3009683.768
685	13680	667537.934	3009664.285
686	13700	667551.978	3009650.54
687	13720	667570.441	3009642.867
688	13740	667589.225	3009636.059
689	13760	667608.757	3009638.07
690	13780	667623.129	3009651.548
691	13800	667633.356	3009668.735
692	13820	667643.528	3009685.955
693	13840	667653.7	3009703.175
694	13860	667663.872	3009720.395
695	13880	667674.045	3009737.615
696	13900	667684.217	3009754.835
697	13920	667694.389	3009772.055
698	13940	667704.561	3009789.275

RHENOCK TO RONGLI			
PROPOSED CENTER LINE CO-ORDINATES			
S.NO	CHAINAGE	X	Y
699	13960	667714.735	3009806.494
700	13980	667725.815	3009823.134
701	14000	667738.502	3009838.585
702	14020	667752.667	3009852.692
703	14040	667768.17	3009865.314
704	14060	667784.856	3009876.325
705	14080	667802.385	3009885.953
706	14100	667819.985	3009895.451
707	14120	667837.653	3009904.822
708	14140	667856.483	3009911.412
709	14160	667876.186	3009914.83
710	14180	667895.928	3009918.033
711	14200	667915.566	3009921.791
712	14220	667934.605	3009927.868
713	14240	667953.08	3009935.526
714	14260	667971.52	3009943.269
715	14280	667989.961	3009951.012
716	14300	668008.401	3009958.754
717	14320	668026.842	3009966.497
718	14340	668045.281	3009974.242
719	14360	668063.143	3009983.183
720	14380	668077.877	3009996.57
721	14400	668087.986	3010013.775
722	14420	668096.203	3010032.009
723	14440	668106.623	3010048.95
724	14460	668123.442	3010059.383
725	14480	668143.133	3010062.714
726	14500	668162.801	3010066.187
727	14520	668180.861	3010074.661
728	14540	668198.133	3010084.744
729	14560	668215.405	3010094.828
730	14580	668232.677	3010104.912

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:	
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with Infratech Management Pvt. Ltd. In Association With Maverick Mernok & Construction 511, Tower b, Ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities In Respect of "Widening And Up-Gratation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : M.K	Centre Line Co-ordinates List Rhenock To Rongli bazaar	
					Checked By : AH		
					Approved By : VY		
					SCALE-NTS	DWG NO: XPL/DSD/SK/KM15.3/CO/08	
						Sheet No: 08 OF 08	DATE:Nov-2024

ROW CO-ORDINATES LIST

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
1	0+000	661907.8438	3007588.706	661920.8578	3007585.219	661932.188	3007582.123
2	0+020	661904.8828	3007602.041	661916.5729	3007604.754	661928.262	3007607.466
3	0+040	661899.8242	3007620.481	661911.2861	3007624.039	661922.7444	3007627.598
4	0+060	661893.5397	3007638.587	661904.7269	3007642.93	661915.9129	3007647.273
5	0+080	661886.1455	3007657.132	661897.3189	3007661.507	661908.4923	3007665.885
6	0+100	661879.1475	3007676.761	661890.5988	3007680.341	661902.0545	3007683.922
7	0+120	661873.6892	3007696.775	661885.3429	3007699.635	661896.9974	3007702.495
8	0+140	661869.0243	3007716.303	661880.6967	3007719.088	661892.3691	3007721.872
9	0+160	661864.3831	3007735.757	661876.0555	3007738.542	661887.7279	3007741.326
10	0+180	661859.7418	3007755.211	661871.4143	3007757.996	661883.0867	3007760.78
11	0+200	661855.1006	3007774.665	661866.773	3007777.45	661878.4454	3007780.234
12	0+220	661850.4594	3007794.119	661862.1319	3007796.904	661873.8043	3007799.688
13	0+240	661845.8105	3007812.988	661857.3446	3007816.322	661868.8728	3007819.653
14	0+260	661839.7844	3007829.758	661850.5598	3007835.118	661861.3038	3007840.463
15	0+280	661831.149	3007845.707	661840.9753	3007852.656	661850.7734	3007859.584
16	0+300	661820.0082	3007860.341	661828.8165	3007868.516	661837.6116	3007876.68
17	0+320	661806.4286	3007873.761	661814.5874	3007882.561	661822.7461	3007891.36
18	0+340	661791.7624	3007887.359	661799.9212	3007896.158	661808.0799	3007904.958
19	0+360	661777.0962	3007900.957	661785.255	3007909.756	661793.4137	3007918.556
20	0+380	661761.8662	3007915.907	661770.9603	3007923.737	661780.0641	3007931.574
21	0+400	661748.379	3007932.762	661758.4331	3007939.313	661768.5084	3007945.877
22	0+420	661737.3201	3007951.118	661748.0877	3007956.415	661758.8589	3007961.714
23	0+440	661728.5503	3007969.302	661739.4	3007974.429	661750.2497	3007979.556
24	0+460	661720.0057	3007987.385	661730.8553	3007992.512	661741.705	3007997.639
25	0+480	661711.461	3008005.468	661722.3106	3008010.595	661733.1603	3008015.722
26	0+500	661702.9163	3008023.551	661713.766	3008028.677	661724.6157	3008033.804
27	0+520	661694.4723	3008041.415	661705.2185	3008046.759	661715.9622	3008052.102
28	0+540	661685.7416	3008057.644	661695.717	3008064.343	661705.679	3008071.033
29	0+560	661674.8401	3008071.941	661683.561	3008080.198	661692.2752	3008088.448
30	0+580	661661.7129	3008084.227	661668.9432	3008093.816	661676.168	3008103.397
31	0+600	661646.7292	3008094.164	661652.2686	3008104.82	661657.8037	3008115.467
32	0+620	661630.3045	3008101.478	661633.9994	3008112.904	661637.6916	3008124.322
33	0+640	661612.8941	3008105.965	661614.6422	3008117.846	661616.389	3008129.719
34	0+660	661594.9552	3008107.503	661594.7332	3008119.508	661594.5114	3008131.505
35	0+680	661575.98	3008106.25	661574.7853	3008118.19	661573.5906	3008130.131
36	0+700	661556.0794	3008104.259	661554.8847	3008116.199	661553.69	3008128.139
37	0+720	661536.1787	3008102.268	661534.984	3008114.208	661533.7894	3008126.148
38	0+740	661513.5713	3008101.059	661515.0463	3008112.968	661516.5291	3008124.939
39	0+760	661488.2685	3008113.216	661497.2558	3008121.168	661506.3024	3008129.172
40	0+780	661477.227	3008137.872	661489.1721	3008139.018	661501.1208	3008140.165
41	0+800	661484.4243	3008165.367	661493.9182	3008158.028	661503.4716	3008150.643

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
42	0+820	661507.4265	3008181.008	661509.951	3008169.277	661512.4874	3008157.49
43	0+840	661532.0629	3008180.328	661529.7514	3008168.553	661527.4398	3008156.778
44	0+860	661551.6883	3008176.476	661549.3767	3008164.701	661547.0651	3008152.925
45	0+880	661571.3138	3008172.623	661569.0022	3008160.848	661566.6906	3008149.073
46	0+900	661590.9392	3008168.77	661588.6276	3008156.995	661586.316	3008145.22
47	0+920	661610.9665	3008164.797	661608.2463	3008153.109	661605.5255	3008141.419
48	0+940	661631.8753	3008158.839	661627.4744	3008147.675	661623.0714	3008136.506
49	0+960	661651.009	3008150.232	661645.7032	3008139.469	661640.3975	3008128.705
50	0+980	661668.9478	3008141.389	661663.6421	3008130.626	661658.3363	3008119.862
51	1+000	661686.8867	3008132.546	661681.5809	3008121.783	661676.2752	3008111.019
52	1+020	661705.7462	3008122.786	661699.3569	3008112.628	661692.9626	3008102.463
53	1+040	661723.9325	3008107.142	661714.5099	3008099.712	661705.0679	3008092.265
54	1+060	661735.7798	3008088.774	661725.3082	3008082.914	661714.8366	3008077.053
55	1+080	661745.4375	3008071.534	661735.0846	3008065.466	661724.7323	3008059.399
56	1+100	661755.2507	3008055.747	661745.6721	3008048.509	661736.098	3008041.275
57	1+120	661766.8845	3008042.3	661758.7801	3008033.438	661750.6821	3008024.582
58	1+140	661781.5111	3008029.374	661773.7712	3008020.203	661766.0313	3008011.033
59	1+160	661796.7948	3008016.474	661789.0549	3008007.304	661781.3151	3007998.133
60	1+180	661812.0787	3008003.574	661804.3387	3007994.404	661796.5988	3007985.233
61	1+200	661827.3625	3007990.674	661819.6225	3007981.504	661811.8826	3007972.334
62	1+220	661842.2613	3007978.266	661834.9953	3007968.711	661827.7317	3007959.159
63	1+240	661856.7878	3007968.768	661851.7496	3007957.854	661846.7203	3007946.958
64	1+260	661873.108	3007962.932	661870.5654	3007951.197	661868.0244	3007939.469
65	1+280	661892.427	3007958.968	661890.1576	3007947.185	661887.8882	3007935.401
66	1+300	661912.2783	3007955.139	661909.7962	3007943.4	661907.3139	3007931.659
67	1+320	661933.5334	3007949.658	661929.1615	3007938.483	661924.7848	3007927.295
68	1+340	661954.4131	3007937.714	661946.5014	3007928.691	661938.5692	3007919.646
69	1+360	661970.0996	3007919.73	661959.6846	3007913.769	661949.245	3007907.795
70	1+380	661979.0417	3007898.264	661967.3901	3007895.393	661955.7317	3007892.521
71	1+400	661983.3285	3007878.139	661971.5517	3007875.835	661959.775	3007873.531
72	1+420	661987.1464	3007858.63	661975.3933	3007856.207	661963.6406	3007853.785
73	1+440	661991.3522	3007840.29	661979.8905	3007836.727	661968.4314	3007833.165
74	1+460	661997.9297	3007823.942	661987.3802	3007818.216	661976.8338	3007812.491
75	1+480	662007.7962	3007808.455	661998.1172	3007801.36	661988.4392	3007794.265
76	1+500	662019.6314	3007792.395	662009.9827	3007785.26	662000.3341	3007778.125
77	1+520	662031.5226	3007776.314	662021.874	3007769.179	662012.2255	3007762.044
78	1+540	662043.7119	3007758.973	662033.3978	3007752.839	662023.0799	3007746.703
79	1+560	662053.3262	3007737.769	662041.7202	3007734.719	662030.095	3007731.665
80	1+580	662056.6479	3007714.696	662044.6517	3007715.001	662032.6385	3007715.307
81	1+600	662053.9537	3007692.474	662042.2635	3007695.184	662030.5722	3007697.893
82	1+620	662049.3246	3007672.911	662037.6583	3007675.721	662025.9921	3007678.532

R.No.	Date	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:	
			 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with DSD Infratech Management Pvt. Ltd. in Association With Maverick Mernok & Construction 511, Tower b, Ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gratation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K	ROW Co-ordinates List Rhenock To Rongli Bazzar	
						Checked By : AH		
						Approved By : VY	DWG NO: XPL/DSD/SK/KM15.3/ROW/01	
						SCALE : NTS	Sheet No: 01 OF 09	DATE: Nov-2024

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
83	1+640	662044.6403	3007653.467	662032.9741	3007656.277	662021.3079	3007659.088
84	1+660	662039.9561	3007634.023	662028.2898	3007636.834	662016.6237	3007639.644
85	1+680	662035.3922	3007614.988	662023.633	3007617.384	662011.8745	3007619.779
86	1+700	662034.1261	3007599.647	662022.2799	3007597.559	662010.4621	3007595.476
87	1+720	662039.4165	3007589.771	662031.8369	3007580.398	662024.2921	3007571.068
88	1+740	662050.4911	3007584.774	662049.9417	3007572.746	662049.3941	3007560.759
89	1+760	662068.458	3007585.737	662069.8742	3007573.821	662071.2904	3007561.905
90	1+780	662088.3183	3007588.097	662089.7345	3007576.181	662091.1507	3007564.265
91	1+800	662110.2124	3007589.705	662109.6615	3007577.718	662109.1099	3007565.715
92	1+820	662133.4611	3007585.707	662129.3065	3007574.45	662125.1479	3007563.181
93	1+840	662152.9611	3007577.088	662147.5805	3007566.362	662142.1997	3007555.636
94	1+860	662169.8502	3007568.964	662165.6159	3007557.731	662161.3833	3007546.502
95	1+880	662185.3313	3007565.519	662185.0747	3007553.518	662184.8182	3007541.521
96	1+900	662204.5867	3007565.921	662205.0643	3007553.93	662205.5419	3007541.94
97	1+920	662225.5503	3007566.567	662225.0528	3007554.577	662224.5548	3007542.575
98	1+940	662248.664	3007562.819	662244.7273	3007551.484	662240.788	3007540.14
99	1+960	662268.3695	3007553.784	662262.8705	3007543.118	662257.3715	3007532.452
100	1+980	662285.4276	3007545.246	662280.7632	3007534.189	662276.099	3007523.132
101	2+000	662301.679	3007540.34	662299.8783	3007528.472	662298.0781	3007516.608
102	2+020	662320.2728	3007538.923	662319.8054	3007526.932	662319.338	3007514.942
103	2+040	662340.2576	3007538.144	662339.7902	3007526.153	662339.3228	3007514.163
104	2+060	662360.2424	3007537.365	662359.775	3007525.374	662359.3076	3007513.384
105	2+080	662380.2272	3007536.586	662379.7598	3007524.595	662379.2924	3007512.605
106	2+100	662400.2121	3007535.807	662399.7447	3007523.816	662399.2773	3007511.826
107	2+120	662421.3592	3007534.513	662419.7051	3007522.627	662418.0508	3007510.741
108	2+140	662442.6138	3007530.744	662439.3943	3007519.184	662436.1717	3007507.613
109	2+160	662463.1785	3007524.183	662458.4508	3007513.154	662453.7186	3007502.114
110	2+180	662482.316	3007515.205	662476.5541	3007504.679	662470.7922	3007494.153
111	2+200	662499.878	3007505.532	662494.0723	3007495.029	662488.2666	3007484.527
112	2+220	662517.3815	3007495.855	662511.5757	3007485.353	662505.77	3007474.851
113	2+240	662534.8849	3007486.179	662529.0792	3007475.677	662523.2734	3007465.175
114	2+260	662552.3884	3007476.503	662546.5826	3007466.001	662540.7769	3007455.499
115	2+280	662569.8918	3007466.827	662564.086	3007456.325	662558.2803	3007445.823
116	2+300	662587.3953	3007457.151	662581.5895	3007446.648	662575.7838	3007436.146
117	2+320	662604.8987	3007447.474	662599.0929	3007436.972	662593.2872	3007426.47
118	2+340	662622.4022	3007437.798	662616.5964	3007427.296	662610.7907	3007416.794
119	2+360	662639.5662	3007428.453	662634.164	3007417.738	662628.7622	3007407.023
120	2+380	662657.026	3007419.967	662652.1526	3007409.001	662647.2798	3007398.037
121	2+400	662675.1326	3007412.28	662670.5608	3007401.185	662665.9891	3007390.09
122	2+420	662693.6243	3007404.66	662689.0525	3007393.565	662684.4808	3007382.47
123	2+440	662712.116	3007397.041	662707.5442	3007385.946	662702.9724	3007374.85

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
124	2+460	662730.6076	3007389.421	662726.0359	3007378.326	662721.4641	3007367.231
125	2+480	662749.0992	3007381.801	662744.5274	3007370.706	662739.9557	3007359.611
126	2+500	662767.5908	3007374.182	662763.0191	3007363.087	662758.4474	3007351.992
127	2+520	662786.0825	3007366.562	662781.5108	3007355.467	662776.939	3007344.372
128	2+540	662804.5742	3007358.943	662800.0025	3007347.848	662795.4307	3007336.753
129	2+560	662823.0659	3007351.323	662818.4942	3007340.228	662813.9224	3007329.133
130	2+600	662861.3272	3007326.812	662852.0117	3007319.248	662842.6834	3007311.674
131	2+620	662873.3984	3007307.681	662862.6373	3007302.372	662851.8756	3007297.063
132	2+640	662882.2301	3007289.714	662871.4593	3007284.423	662860.6886	3007279.133
133	2+660	662890.8666	3007272.392	662880.3947	3007266.531	662869.9232	3007260.671
134	2+680	662900.5636	3007257.716	662891.4517	3007249.903	662882.3422	3007242.092
135	2+700	662912.961	3007245.263	662905.5831	3007235.796	662898.2067	3007226.331
136	2+720	662927.5045	3007235.568	662922.2364	3007224.78	662916.9708	3007213.997
137	2+740	662944.7277	3007228.298	662940.649	3007217.013	662936.5705	3007205.728
138	2+760	662963.3086	3007221.593	662959.4621	3007210.226	662955.6159	3007198.86
139	2+780	662976.8869	3007218.909	662978.9981	3007207.051	662981.1015	3007195.237
140	2+800	662987.453	3007223.72	662996.5631	3007215.818	663005.6279	3007207.954
141	2+820	662993.5704	3007234.78	663005.5316	3007233.376	663017.4498	3007231.978
142	2+840	662991.9336	3007246.431	663002.2006	3007252.724	663012.4316	3007258.995
143	2+860	662983.0061	3007254.843	662987.6422	3007265.923	662992.2739	3007276.993
144	2+880	662964.926	3007261.46	662968.8663	3007272.795	662972.8066	3007284.129
145	2+900	662945.7402	3007268.154	662949.9812	3007279.379	662954.2223	3007290.604
146	2+920	662925.6024	3007276.772	662931.5838	3007287.175	662937.5683	3007297.584
147	2+940	662906.9752	3007290.134	662915.3327	3007298.745	662923.6929	3007307.359
148	2+960	662892.3207	3007307.36	662902.3699	3007313.919	662912.419	3007320.478
149	2+980	662881.4416	3007324.514	662891.6589	3007330.807	662901.8762	3007337.101
150	3+000	662870.9528	3007341.543	662881.1701	3007347.836	662891.3874	3007354.13
151	3+020	662860.4638	3007358.572	662870.6812	3007364.865	662880.8985	3007371.158
152	3+020	662843.0999	3007342.105	662836.6882	3007331.961	662830.2721	3007321.811
153	3+040	662849.9749	3007375.601	662860.1924	3007381.894	662870.4097	3007388.187
154	3+060	662839.4015	3007392.786	662849.7103	3007398.927	662860.0197	3007405.069
155	3+080	662829.047	3007411.149	662839.8697	3007416.332	662850.6924	3007421.516
156	3+100	662820.5636	3007430.041	662831.6751	3007434.571	662842.7872	3007439.101
157	3+120	662813.0231	3007448.578	662824.1397	3007453.097	662835.2563	3007457.616
158	3+140	662805.6356	3007465.803	662816.2204	3007471.456	662826.8052	3007477.11
159	3+160	662796.5238	3007479.138	662804.8428	3007487.808	662813.1514	3007496.466
160	3+180	662783.7554	3007488.71	662788.8079	3007499.609	662793.855	3007510.496
161	3+200	662767.5395	3007494.163	662769.8903	3007505.931	662772.2411	3007517.698
162	3+220	662748.0286	3007497.948	662750.2567	3007509.74	662752.4848	3007521.531
163	3+240	662727.8216	3007501.897	662730.6264	3007513.564	662733.4312	3007525.232
164	3+260	662705.8692	3007509.558	662711.7557	3007520.015	662717.6479	3007530.482

R.No.	Date	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE: ROW Co-ordinates List Rhenock To Rongli Bazaar	
			 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with DSD Infratech Management Pvt. Ltd. in Association With Maverick Mernok & Construction 511, Tower b, Ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K		
						Checked By : AH		
						Approved By : VY		
						SCALE : NTS	DWG NO: XPL/DSD/SK/KM15.3/ROW/02	
							Sheet No: 02 OF 09	DATE: Nov-2024

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
165	3+280	662686.8729	3007523.966	662695.8256	3007531.957	662704.7798	3007539.948
166	3+300	662673.7086	3007541.428	662683.8087	3007547.907	662693.9093	3007554.386
167	3+320	662662.9246	3007558.302	662673.039	3007564.76	662683.1535	3007571.217
168	3+340	662652.1622	3007575.16	662662.2766	3007581.617	662672.3911	3007588.075
169	3+360	662641.3999	3007592.017	662651.5143	3007598.474	662661.6288	3007604.932
170	3+380	662630.6731	3007608.815	662640.7502	3007615.331	662650.8268	3007621.846
171	3+400	662620.0598	3007624.627	662629.5881	3007631.922	662639.1164	3007639.217
172	3+420	662608.248	3007638.196	662616.4409	3007646.964	662624.6337	3007655.732
173	3+440	662594.3597	3007649.615	662600.9845	3007659.62	662607.6092	3007669.626
174	3+460	662578.7694	3007658.571	662583.6425	3007669.537	662588.5155	3007680.503
175	3+480	662561.7285	3007664.925	662564.9113	3007676.495	662568.094	3007688.065
176	3+500	662542.6151	3007669.991	662545.5797	3007681.619	662548.5442	3007693.247
177	3+520	662523.1073	3007674.972	662526.2011	3007686.566	662529.295	3007698.16
178	3+540	662501.9438	3007682.279	662507.3029	3007693.016	662512.6647	3007703.758
179	3+560	662483.5214	3007693.21	662490.1274	3007703.228	662496.7334	3007713.246
180	3+580	662466.8247	3007704.22	662473.4307	3007714.238	662480.0367	3007724.256
181	3+600	662450.5937	3007714.79	662456.6646	3007725.141	662462.7353	3007735.492
182	3+620	662434.7932	3007722.566	662438.7224	3007733.905	662442.6514	3007745.243
183	3+640	662417.8811	3007727.036	662419.4007	3007738.939	662420.9203	3007750.843
184	3+660	662399.22	3007728.357	662399.4667	3007740.355	662399.7135	3007752.352
185	3+680	662378.4764	3007728.894	662379.4739	3007740.853	662380.4715	3007752.811
186	3+700	662352.8443	3007738.715	662361.0104	3007747.508	662369.2079	3007756.335
187	3+720	662339.6918	3007763.566	662351.6418	3007764.66	662363.6259	3007765.758
188	3+740	662345.3907	3007790.592	662355.3824	3007783.946	662365.4101	3007777.276
189	3+760	662368.0954	3007807.616	662370.8167	3007795.928	662373.5513	3007784.184
190	3+780	662393.7441	3007806.646	662390.5087	3007795.091	662387.2733	3007783.535
191	3+800	662413.0327	3007801.17	662409.7482	3007789.628	662406.4636	3007778.086
192	3+820	662432.4138	3007795.643	662428.9819	3007784.145	662425.5499	3007772.646
193	3+840	662452.1584	3007789.339	662448.0335	3007778.071	662443.9086	3007766.802
194	3+860	662471.1744	3007781.863	662466.6443	3007770.751	662462.1142	3007759.638
195	3+880	662489.6109	3007774.35	662485.1656	3007763.204	662480.7204	3007752.057
196	3+900	662505.8021	3007769.225	662504.231	3007757.323	662502.6606	3007745.426
197	3+920	662523.1033	3007769.091	662524.1745	3007757.139	662525.2456	3007745.188
198	3+940	662543.0042	3007770.9	662544.0923	3007758.949	662545.1804	3007746.999
199	3+960	662563.995	3007772.539	662564.026	3007760.539	662564.057	3007748.539
200	3+980	662587.6146	3007769.401	662583.7781	3007758.031	662579.9398	3007746.656
201	4+000	662608.2104	3007759.534	662601.755	3007749.419	662595.2997	3007739.303
202	4+020	662625.0768	3007748.694	662618.5795	3007738.605	662612.0821	3007728.516
203	4+040	662641.8915	3007737.865	662635.3941	3007727.776	662628.8967	3007717.687
204	4+060	662658.7061	3007727.036	662652.2087	3007716.947	662645.7114	3007706.858
205	4+080	662675.5208	3007716.207	662669.0234	3007706.118	662662.5261	3007696.029

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
206	4+100	662692.3355	3007705.378	662685.8382	3007695.289	662679.3408	3007685.2
207	4+120	662709.1502	3007694.549	662702.6528	3007684.46	662696.1554	3007674.371
208	4+140	662725.7022	3007683.935	662719.4909	3007673.668	662713.2795	3007663.4
209	4+160	662740.8349	3007676.211	662737.3343	3007664.733	662733.8335	3007653.255
210	4+180	662756.7583	3007673.464	662756.9752	3007661.466	662757.1921	3007649.469
211	4+200	662775.4461	3007674.953	662776.8991	3007663.042	662778.352	3007651.13
212	4+220	662795.2989	3007677.375	662796.7518	3007665.463	662798.2048	3007653.551
213	4+240	662815.1518	3007679.796	662816.6048	3007667.885	662818.0577	3007655.973
214	4+260	662835.1315	3007682.23	662836.4578	3007670.304	662837.7843	3007658.377
215	4+280	662856.9426	3007683.785	662856.3853	3007671.798	662855.828	3007659.811
216	4+300	662880.3859	3007679.504	662875.9918	3007668.338	662871.5961	3007657.167
217	4+320	662901.1848	3007667.794	662893.3937	3007658.668	662885.5983	3007649.536
218	4+340	662916.5994	3007652.142	662907.4003	3007644.436	662898.2013	3007636.73
219	4+360	662929.4304	3007636.755	662920.2093	3007629.076	662910.9881	3007621.397
220	4+380	662942.2292	3007621.387	662933.008	3007613.707	662923.7869	3007606.028
221	4+400	662955.0278	3007606.018	662945.8067	3007598.339	662936.5856	3007590.66
222	4+420	662967.8266	3007590.65	662958.6054	3007582.97	662949.3843	3007575.291
223	4+440	662980.6253	3007575.281	662971.4042	3007567.602	662962.183	3007559.922
224	4+460	662993.4239	3007559.912	662984.2028	3007552.233	662974.9817	3007544.554
225	4+480	663006.2226	3007544.544	662997.0015	3007536.865	662987.7804	3007529.185
226	4+500	663019.0214	3007529.175	663009.8002	3007521.496	663000.5791	3007513.817
227	4+520	663031.473	3007514.627	663022.8178	3007506.315	663014.1625	3007498.003
228	4+540	663044.8364	3007501.413	663037.0541	3007492.278	663029.272	3007483.144
229	4+560	663059.6575	3007489.425	663052.6066	3007479.715	663045.5564	3007470.006
230	4+580	663075.8279	3007477.746	663068.8197	3007468.005	663061.8115	3007458.264
231	4+600	663092.0627	3007466.065	663085.0545	3007456.324	663078.0463	3007446.583
232	4+620	663108.2976	3007454.385	663101.2894	3007444.644	663094.2812	3007434.903
233	4+640	663124.5325	3007442.704	663117.5243	3007432.964	663110.5161	3007423.223
234	4+660	663140.7673	3007431.024	663133.7591	3007421.283	663126.7509	3007411.542
235	4+680	663157.0022	3007419.344	663149.994	3007409.603	663142.9858	3007399.862
236	4+700	663173.2369	3007407.663	663166.2287	3007397.923	663159.2205	3007388.182
237	4+720	663190.0861	3007394.882	663182.1753	3007385.859	663174.2645	3007376.835
238	4+740	663205.6885	3007379.032	663196.2176	3007371.663	663186.7466	3007364.294
239	4+760	663217.8631	3007360.598	663207.2436	3007355.01	663196.624	3007349.422
240	4+780	663227.1055	3007342.592	663216.3762	3007337.218	663205.6469	3007331.843
241	4+800	663235.999	3007324.858	663225.3427	3007319.34	663214.6868	3007313.823
242	4+820	663245.0898	3007308.064	663234.8768	3007301.763	663224.6639	3007295.463
243	4+840	663255.578	3007291.775	663245.7059	3007284.953	663235.8343	3007278.131
244	4+860	663266.9562	3007275.349	663257.0945	3007268.512	663247.2328	3007261.675
245	4+880	663278.3516	3007258.913	663268.4898	3007252.076	663258.6282	3007245.239
246	4+900	663290.049	3007240.705	663279.3392	3007235.292	663268.6294	3007229.879

R.No.	Date	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE: ROW Co-ordinates List Rhenock To Rongli Bazaar	
			 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with DSD Infratech Management Pvt. Ltd. in Association With Maverick Mernok & Construction 511, Tower b, Ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K		
						Checked By : AH		
						Approved By : VY	DWG NO: XPL/DSD/SK/KM15.3/ROW/03	
						SCALE : NTS	Sheet No: 03 OF 09	DATE: Nov-2024

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
247	4+920	663296.6321	3007216.848	663284.6527	3007216.144	663272.6734	3007215.439
248	4+940	663295.3602	3007194.859	663283.4366	3007196.211	663271.513	3007197.563
249	4+960	663294.1131	3007177.886	663282.1766	3007176.283	663270.2833	3007174.685
250	4+980	663298.7875	3007161.579	663287.6431	3007157.129	663276.4989	3007152.679
251	5+000	663306.2042	3007143.005	663295.0598	3007138.555	663283.9154	3007134.105
252	5+020	663313.6209	3007124.431	663302.4764	3007119.981	663291.3321	3007115.531
253	5+040	663321.0375	3007105.857	663309.893	3007101.407	663298.7487	3007096.957
254	5+060	663328.4541	3007087.283	663317.3097	3007082.833	663306.1653	3007078.383
255	5+080	663335.7975	3007068.983	663324.7606	3007064.273	663313.7248	3007059.563
256	5+100	663343.6388	3007053.41	663333.8369	3007046.488	663324.0351	3007039.565
257	5+120	663354.5683	3007041.027	663347.1149	3007031.623	663339.6616	3007022.218
258	5+140	663368.5454	3007032.228	663364.0448	3007021.104	663359.5442	3007009.98
259	5+160	663384.75	3007027.642	663383.2467	3007015.737	663381.7434	3007003.831
260	5+180	663403.857	3007026.064	663403.1716	3007014.083	663402.4862	3007002.103
261	5+200	663423.8243	3007024.921	663423.1389	3007012.941	663422.4535	3007000.961
262	5+220	663443.7917	3007023.779	663443.1063	3007011.799	663442.4209	3006999.818
263	5+240	663463.759	3007022.637	663463.0736	3007010.656	663462.3882	3006998.676
264	5+260	663483.7264	3007021.494	663483.041	3007009.514	663482.3556	3006997.534
265	5+280	663503.6937	3007020.352	663503.0083	3007008.372	663502.3229	3006996.391
266	5+300	663523.6611	3007019.21	663522.9757	3007007.229	663522.2903	3006995.249
267	5+320	663543.9378	3007018.019	663542.9414	3007006.06	663541.945	3006994.102
268	5+340	663566.9372	3007013.501	663562.521	3007002.343	663558.1047	3006991.185
269	5+360	663587.706	3007001.725	663579.8914	3006992.619	663572.0766	3006983.512
270	5+420	663624.9629	3006954.75	663617.0228	3006945.714	663609.1016	3006936.7
271	5+440	663634.295	3006950.593	663635.1372	3006938.586	663635.9769	3006926.615
272	5+460	663643.8515	3006954.535	663652.8755	3006946.603	663661.8883	3006938.68
273	5+480	663648.5433	3006964.356	663660.5733	3006964.596	663672.57	3006964.835
274	5+500	663644.8594	3006974.331	663653.4474	3006982.716	663662.0334	3006991.099
275	5+520	663631.0539	3006982.617	663636.5647	3006993.276	663642.0755	3007003.936
276	5+520	663614.6726	3006968.479	663604.8685	3006961.559	663595.0644	3006954.64
277	5+540	663613.2875	3006991.801	663618.7983	3007002.461	663624.3091	3007013.121
278	5+540	663603.0964	3006984.85	663593.3214	3006977.889	663583.5464	3006970.928
279	5+560	663595.5212	3007000.986	663601.032	3007011.645	663606.5428	3007022.305
280	5+580	663577.7548	3007010.17	663583.2656	3007020.83	663588.7764	3007031.49
281	5+600	663559.9037	3007019.405	663565.5015	3007030.019	663571.0994	3007040.633
282	5+620	663541.4551	3007029.701	663548.0299	3007039.74	663554.6048	3007049.778
283	5+640	663524.0524	3007041.911	663531.6498	3007051.2	663539.2472	3007060.489
284	5+660	663508.5162	3007054.889	663516.3012	3007064.021	663524.0862	3007073.153
285	5+680	663492.9658	3007068.433	663501.2139	3007077.149	663509.4621	3007085.865
286	5+700	663478.1532	3007084.808	663487.7966	3007091.95	663497.4401	3007099.091
287	5+720	663466.242	3007103.504	663477.0241	3007108.772	663487.8063	3007114.039

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
288	5+740	663457.7799	3007122.904	663469.0268	3007127.088	663480.2737	3007131.272
289	5+760	663450.8224	3007141.673	663462.0752	3007145.841	663473.3281	3007150.009
290	5+780	663443.9877	3007159.959	663455.0658	3007164.572	663466.1439	3007169.185
291	5+800	663436.0737	3007174.201	663445.2663	3007181.914	663454.4589	3007189.628
292	5+820	663423.0553	3007188.237	663431.6798	3007196.58	663440.3042	3007204.924
293	5+840	663408.9847	3007202.813	663417.7871	3007210.968	663426.5902	3007219.123
294	5+860	663395.0384	3007222.34	663406.0716	3007227.059	663417.1049	3007231.778
295	5+880	663388.671	3007243.807	663400.4323	3007246.188	663412.1939	3007248.569
296	5+900	663384.7303	3007263.224	663396.4532	3007265.788	663408.1757	3007268.352
297	5+920	663379.7406	3007278.586	663390.0906	3007284.658	663400.4405	3007290.731
298	5+940	663369.1673	3007291.59	663377.5725	3007300.155	663385.9772	3007308.719
299	5+960	663354.8864	3007305.564	663363.2776	3007314.142	663371.6686	3007322.721
300	5+980	663340.5265	3007319.618	663348.9838	3007328.131	663357.4413	3007336.644
301	6+000	663325.719	3007336.578	663335.7831	3007343.113	663345.8473	3007349.649
302	6+020	663315.2352	3007355.49	663326.1012	3007360.581	663336.9674	3007365.673
303	6+040	663306.7561	3007373.612	663317.6255	3007378.697	663328.495	3007383.781
304	6+060	663298.2813	3007391.727	663309.1507	3007396.812	663320.0201	3007401.897
305	6+080	663289.7891	3007409.886	663300.678	3007414.929	663311.5675	3007419.972
306	6+100	663281.7163	3007430.568	663293.3502	3007433.51	663304.9842	3007436.451
307	6+120	663278.3363	3007452.643	663290.3215	3007453.236	663302.3068	3007453.829
308	6+140	663277.4236	3007472.688	663289.412	3007473.215	663301.4005	3007473.742
309	6+160	663276.3524	3007492	663288.2939	3007493.182	663300.2355	3007494.365
310	6+180	663273.1512	3007509.737	663284.7423	3007512.843	663296.3335	3007515.949
311	6+200	663267.2543	3007527.998	663278.6102	3007531.877	663289.9663	3007535.755
312	6+220	663260.7905	3007546.925	663272.1464	3007550.803	663283.5025	3007554.682
313	6+240	663254.3266	3007565.852	663265.6826	3007569.73	663277.0386	3007573.608
314	6+260	663247.9634	3007583.531	663258.8733	3007588.528	663269.7834	3007593.526
315	6+280	663239.2836	3007596.939	663247.9873	3007605.2	663256.6911	3007613.461
316	6+300	663225.4718	3007608.761	663232.8454	3007618.228	663240.2191	3007627.695
317	6+320	663209.693	3007621.05	663217.0666	3007630.517	663224.4403	3007639.985
318	6+340	663193.3711	3007634.313	663201.5335	3007643.11	663209.6963	3007651.906
319	6+360	663178.4592	3007650.112	663187.8115	3007657.631	663197.1638	3007665.15
320	6+380	663165.9414	3007665.807	663175.3405	3007673.267	663184.7396	3007680.727
321	6+400	663153.5075	3007681.472	663162.9067	3007688.932	663172.3058	3007696.392
322	6+420	663141.0737	3007697.137	663150.4729	3007704.597	663159.872	3007712.058
323	6+440	663128.6398	3007712.802	663138.039	3007720.263	663147.4381	3007727.723
324	6+460	663116.5812	3007727.682	663125.4321	3007735.785	663134.2829	3007743.889
325	6+480	663104.0294	3007738.878	663110.4844	3007748.994	663116.9393	3007759.11
326	6+500	663087.8606	3007747.617	663092.9169	3007758.5	663097.9731	3007769.383
327	6+520	663069.6133	3007756.099	663074.7799	3007766.929	663079.9466	3007777.76
328	6+540	663049.5176	3007768.59	663057.7698	3007777.302	663066.0242	3007786.017

R.No.	Date	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:	
			 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with DSD Infratech Management Pvt. Ltd. in Association With Maverick Mernok & Construction 511, Tower b, Ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gratation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K	ROW Co-ordinates List Rhenock To Rongli Bazzar	
						Checked By : AH		
						Approved By : VY	DWG NO: XPL/DSD/SK/KM15.3/ROW/04	
						SCALE : NTS	Sheet No: 04 OF 09	DATE: Nov-2024

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
329	6+560	663034.7622	3007788.31	663045.7556	3007793.121	663056.7491	3007797.932
330	6+580	663028.8409	3007811.969	663040.8343	3007812.367	663052.8277	3007812.766
331	6+600	663029.0823	3007832.717	663041.0769	3007832.359	663053.0716	3007832.002
332	6+620	663029.6787	3007852.708	663041.6733	3007852.351	663053.668	3007851.993
333	6+640	663030.2751	3007872.699	663042.2697	3007872.342	663054.2644	3007871.984
334	6+660	663030.8715	3007892.691	663042.8662	3007892.333	663054.8608	3007891.975
335	6+680	663031.4679	3007912.682	663043.4626	3007912.324	663055.4573	3007911.966
336	6+700	663031.8615	3007932.021	663043.8579	3007932.319	663055.8542	3007932.616
337	6+720	663030.0092	3007949.634	663041.7364	3007952.179	663053.4635	3007954.723
338	6+740	663024.9926	3007966.706	663036.0664	3007971.329	663047.1403	3007975.952
339	6+760	663016.794	3007983.094	663027.1268	3007989.196	663037.4589	3007995.297
340	6+780	663006.6027	3008000.26	663016.9167	3008006.393	663027.2306	3008012.527
341	6+800	662996.4432	3008017.325	663006.6851	3008023.578	663016.9268	3008029.831
342	6+820	662986.3514	3008031.59	662995.0799	3008039.825	663003.8085	3008048.06
343	6+840	662973.1676	3008043.116	662980.0464	3008052.949	662986.9253	3008062.781
344	6+860	662956.7926	3008054.462	662963.6073	3008064.339	662970.4221	3008074.217
345	6+880	662940.0309	3008066.315	662947.2754	3008075.882	662954.5199	3008085.448
346	6+900	662923.6491	3008080.477	662932.1491	3008088.948	662940.6492	3008097.418
347	6+920	662909.521	3008094.844	662918.1261	3008103.207	662926.7311	3008111.571
348	6+940	662895.8557	3008108.802	662904.1299	3008117.493	662912.4042	3008126.185
349	6+960	662882.2101	3008120.423	662888.881	3008130.398	662895.552	3008140.373
350	6+980	662866.136	3008130.197	662871.8006	3008140.776	662877.4652	3008151.355
351	7+000	662848.508	3008139.611	662854.1584	3008150.197	662859.8088	3008160.784
352	7+020	662830.864	3008149.028	662836.5144	3008159.615	662842.1647	3008170.201
353	7+040	662813.8683	3008157.788	662818.7302	3008168.759	662823.5922	3008179.73
354	7+060	662796.317	3008164.984	662800.2275	3008176.329	662804.1379	3008187.674
355	7+080	662777.4522	3008171.423	662781.2995	3008182.789	662785.1468	3008194.156
356	7+100	662758.4276	3008177.868	662762.3568	3008189.206	662766.2861	3008200.545
357	7+120	662736.9169	3008188.226	662744.3279	3008197.663	662751.7389	3008207.101
358	7+140	662720.4563	3008207.197	662731.2053	3008212.532	662741.9543	3008217.867
359	7+160	662713.7565	3008231.404	662725.7547	3008231.599	662737.7532	3008231.794
360	7+180	662718.0424	3008255.993	662729.0257	3008251.159	662740.0089	3008246.325
361	7+200	662727.7243	3008274.711	662738.2254	3008268.904	662748.7264	3008263.096
362	7+220	662737.5623	3008292.44	662747.9273	3008286.393	662758.2926	3008280.346
363	7+240	662751.4683	3008311.181	662759.7144	3008302.463	662767.9605	3008293.745
364	7+260	662769.7921	3008324.633	662775.7988	3008314.246	662781.8061	3008303.857
365	7+280	662787.1577	3008334.622	662793.1358	3008324.217	662799.114	3008313.812
366	7+300	662802.7846	3008344.226	662810.1315	3008334.738	662817.4785	3008325.25
367	7+320	662816.8593	3008356.388	662825.246	3008347.806	662833.6327	3008339.223
368	7+340	662831.1396	3008370.371	662839.5363	3008361.798	662847.933	3008353.225
369	7+360	662844.4382	3008383.913	662853.5298	3008376.081	662862.6214	3008368.248

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
370	7+380	662854.3123	3008397.816	662865.0167	3008392.393	662875.7211	3008386.969
371	7+400	662860.4824	3008413.741	662872.1684	3008411.015	662883.8546	3008408.288
372	7+420	662863.8179	3008432.376	662875.6989	3008430.691	662887.5799	3008429.006
373	7+440	662866.6318	3008452.224	662878.5061	3008450.493	662890.3806	3008448.761
374	7+460	662869.9044	3008472.576	662881.6735	3008470.238	662893.4435	3008467.899
375	7+480	662874.3728	3008492.528	662886.0472	3008489.752	662897.7219	3008486.977
376	7+500	662878.999	3008511.986	662890.6734	3008509.21	662902.3481	3008506.434
377	7+520	662883.6252	3008531.443	662895.2996	3008528.667	662906.9743	3008525.892
378	7+540	662888.2514	3008550.901	662899.9259	3008548.125	662911.6005	3008545.349
379	7+560	662892.8777	3008570.358	662904.5521	3008567.583	662916.2267	3008564.807
380	7+580	662898.9038	3008591.414	662909.9869	3008586.814	662921.0701	3008582.213
381	7+600	662910.7189	3008611.962	662919.8094	3008604.129	662928.9002	3008596.296
382	7+620	662928.7174	3008627.663	662934.7449	3008617.286	662940.7724	3008606.91
383	7+640	662950.7661	3008636.595	662953.1629	3008624.837	662955.5597	3008613.079
384	7+660	662973.887	3008638.146	662973.0475	3008626.175	662972.208	3008614.204
385	7+680	662994.2419	3008636.172	662992.9517	3008624.241	662991.6614	3008612.311
386	7+700	663014.126	3008634.021	663012.8358	3008622.091	663011.5455	3008610.161
387	7+720	663034.01	3008631.871	663032.7198	3008619.941	663031.4295	3008608.01
388	7+740	663053.7465	3008629.75	663052.6053	3008617.804	663051.4641	3008605.859
389	7+760	663071.5129	3008629.17	663072.5668	3008617.217	663073.6207	3008605.263
390	7+780	663086.7592	3008633.101	663091.8356	3008622.228	663096.9121	3008611.354
391	7+800	663102.9636	3008642.116	663109.3053	3008631.929	663115.6469	3008621.741
392	7+820	663119.9379	3008652.688	663126.282	3008642.502	663132.626	3008632.316
393	7+840	663136.9143	3008663.261	663143.2584	3008653.075	663149.6025	3008642.889
394	7+860	663153.8909	3008673.835	663160.235	3008663.649	663166.5791	3008653.463
395	7+880	663170.8941	3008684.423	663177.2121	3008674.221	663183.5304	3008664.019
396	7+900	663188.3825	3008695.026	663194.3112	3008684.593	663200.2401	3008674.16
397	7+920	663207.0258	3008704.822	663212.006	3008693.904	663216.9862	3008682.986
398	7+940	663226.117	3008713.024	663230.3743	3008701.805	663234.6315	3008690.585
399	7+960	663244.9891	3008720.058	663249.1146	3008708.79	663253.2401	3008697.521
400	7+980	663263.77	3008726.934	663267.8955	3008715.666	663272.021	3008704.397
401	8+000	663282.5509	3008733.81	663286.6764	3008722.541	663290.8019	3008711.273
402	8+020	663301.3318	3008740.686	663305.4573	3008729.417	663309.5828	3008718.149
403	8+040	663320.1127	3008747.562	663324.2382	3008736.293	663328.3637	3008725.025
404	8+060	663338.8936	3008754.438	663343.0191	3008743.169	663347.1445	3008731.9
405	8+080	663358.2344	3008761.298	663361.8652	3008749.861	663365.496	3008738.423
406	8+100	663379.3157	3008766.496	663381.2674	3008754.656	663383.2192	3008742.816
407	8+120	663399.1344	3008769.626	663401.0222	3008757.776	663402.9099	3008745.925
408	8+140	663415.5332	3008773.556	663420.3816	3008762.579	663425.2299	3008751.602
409	8+160	663429.1372	3008781.835	663437.3102	3008773.048	663445.4833	3008764.262
410	8+180	663439.3721	3008794.253	663449.8898	3008788.476	663460.4068	3008782.699

R.No.	Date	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:	
			 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with DSD Infratech Management Pvt. Ltd. in Association With Maverick Mernok & Construction 511, Tower b, Ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gratation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K	ROW Co-ordinates List Rhenock To Rongli Bazzar	
						Checked By : AH		
						Approved By : VY		
						SCALE : NTS	DWG NO: XPL/DSD/SK/KM15.3/ROW/05	
							Sheet No: 05 OF 09	DATE: Nov-2024

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
411	8+200	663446.3986	3008810.984	663457.6723	3008806.873	663468.946	3008802.761
412	8+220	663453.251	3008829.774	663464.5247	3008825.662	663475.7984	3008821.551
413	8+240	663460.1034	3008848.563	663471.3771	3008844.452	663482.6508	3008840.34
414	8+260	663466.9289	3008867.285	663478.2272	3008863.242	663489.5254	3008859.199
415	8+280	663472.9161	3008885.169	663484.5457	3008882.211	663496.1755	3008879.253
416	8+300	663476.9138	3008903.312	663488.8103	3008901.74	663500.7069	3008900.167
417	8+320	663478.7729	3008922.01	663490.7669	3008921.634	663502.761	3008921.257
418	8+340	663478.6803	3008941.335	663490.6767	3008941.63	663502.6731	3008941.924
419	8+360	663478.1896	3008961.329	663490.186	3008961.624	663502.1824	3008961.918
420	8+380	663477.6989	3008981.323	663489.6953	3008981.618	663501.6917	3008981.912
421	8+400	663477.2082	3009001.317	663489.2045	3009001.612	663501.201	3009001.906
422	8+420	663477.2035	3009022.492	663489.1706	3009021.605	663501.1379	3009020.718
423	8+440	663481.7515	3009045.476	663492.9513	3009041.17	663504.1519	3009036.863
424	8+460	663492.5727	3009065.813	663502.294	3009058.778	663512.0152	3009051.743
425	8+480	663505.1913	3009082.079	663514.5553	3009074.574	663523.9193	3009067.07
426	8+500	663517.6987	3009097.685	663527.0625	3009090.181	663536.4265	3009082.677
427	8+520	663534.9374	3009114.71	663541.0129	3009104.361	663547.0886	3009094.013
428	8+540	663561.7929	3009120.64	663560.1328	3009108.755	663558.4727	3009096.871
429	8+560	663586.4311	3009109.507	663578.1407	3009100.831	663569.8504	3009092.155
430	8+580	663599.473	3009085.639	663587.6393	3009083.649	663575.8056	3009081.658
431	8+600	663601.7564	3009064.839	663589.8036	3009063.776	663577.8508	3009062.712
432	8+620	663603.5293	3009044.918	663591.5765	3009043.854	663579.6238	3009042.791
433	8+640	663605.3	3009025.115	663593.3582	3009023.934	663581.4167	3009022.753
434	8+660	663608.3176	3009008.605	663597.0991	3009004.345	663585.8811	3009000.085
435	8+680	663615.8855	3008994.59	663606.6763	3008986.897	663597.467	3008979.204
436	8+700	663628.3517	3008983.026	663621.2803	3008973.331	663614.209	3008963.636
437	8+720	663644.5087	3008971.331	663637.4812	3008961.604	663630.4536	3008951.877
438	8+740	663660.7203	3008959.618	663653.6928	3008949.891	663646.6653	3008940.164
439	8+760	663677.3293	3008947.239	663669.7335	3008937.949	663662.1376	3008928.659
440	8+780	663693.1783	3008933.639	663684.9155	3008924.937	663676.6527	3008916.235
441	8+800	663707.734	3008919.17	663699.0971	3008910.839	663690.4602	3008902.508
442	8+820	663721.545	3008904.858	663712.9854	3008896.447	663704.4258	3008888.037
443	8+840	663733.9322	3008894.383	663728.3461	3008883.762	663722.7599	3008873.142
444	8+860	663748.2274	3008889.53	663747.218	3008877.573	663746.2086	3008865.615
445	8+880	663763.2832	3008890.631	663767.0099	3008879.224	663770.7367	3008867.818
446	8+900	663777.2745	3008897.839	663784.6545	3008888.377	663792.0345	3008878.915
447	8+920	663792.4577	3008910.286	663800.1227	3008901.053	663807.7878	3008891.82
448	8+940	663810.1076	3008923.578	663816.0284	3008913.141	663821.9502	3008902.701
449	8+960	663832.4749	3008932.265	663834.5414	3008920.444	663836.6079	3008908.623
450	8+980	663854.4778	3008933.926	663854.4424	3008921.926	663854.407	3008909.926
451	9+000	663874.4808	3008933.862	663874.4424	3008921.862	663874.404	3008909.863

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
452	9+020	663892.1216	3008934.712	663894.3828	3008922.927	663896.6439	3008911.143
453	9+040	663908.6549	3008940.179	663913.3441	3008929.133	663918.0332	3008918.087
454	9+060	663927.0509	3008948.003	663931.7483	3008936.961	663936.4458	3008925.919
455	9+080	663945.4549	3008955.832	663950.1524	3008944.79	663954.8497	3008933.748
456	9+100	663963.8588	3008963.661	663968.5562	3008952.619	663973.2536	3008941.577
457	9+120	663983.0558	3008971.519	663987.0581	3008960.206	663991.0605	3008948.893
458	9+140	664004.8786	3008976.948	664006.4288	3008965.048	664007.979	3008953.149
459	9+160	664027.2179	3008977.927	664026.3732	3008965.957	664025.5285	3008953.987
460	9+180	664049.3065	3008974.448	664046.1005	3008962.884	664042.8945	3008951.321
461	9+200	664070.1465	3008966.72	664064.8286	3008955.963	664059.5106	3008945.206
462	9+220	664088.4187	3008956.256	664082.169	3008946.012	664075.9192	3008935.768
463	9+240	664105.4922	3008945.84	664099.2425	3008935.596	664092.9927	3008925.352
464	9+260	664121.468	3008936.694	664116.6168	3008925.718	664111.7656	3008914.743
465	9+280	664135.8512	3008933.451	664136.017	3008921.452	664136.1828	3008909.454
466	9+300	664150.723	3008936.039	664155.5483	3008925.052	664160.3736	3008914.064
467	9+320	664163.4644	3008944.262	664172.1379	3008935.972	664180.8126	3008927.68
468	9+340	664175.3799	3008958.721	664184.8693	3008951.376	664194.3587	3008944.031
469	9+360	664187.6218	3008974.537	664197.1112	3008967.192	664206.6006	3008959.847
470	9+380	664199.8635	3008990.353	664209.3529	3008983.007	664218.8424	3008975.662
471	9+400	664212.1054	3009006.168	664221.5948	3008998.823	664231.0843	3008991.478
472	9+420	664224.3473	3009021.984	664233.8367	3009014.639	664243.3262	3009007.294
473	9+440	664236.5892	3009037.8	664246.0786	3009030.455	664255.568	3009023.11
474	9+460	664248.831	3009053.615	664258.3204	3009046.27	664267.8098	3009038.925
475	9+480	664261.0729	3009069.431	664270.5622	3009062.086	664280.0517	3009054.741
476	9+500	664273.3147	3009085.247	664282.8041	3009077.902	664292.2936	3009070.557
477	9+520	664285.5566	3009101.063	664295.046	3009093.718	664304.5354	3009086.372
478	9+540	664297.7984	3009116.878	664307.2879	3009109.533	664316.7773	3009102.188
479	9+560	664310.0403	3009132.694	664319.5297	3009125.349	664329.0191	3009118.004
480	9+580	664322.1925	3009148.41	664331.7633	3009141.171	664341.3338	3009133.933
481	9+600	664332.9025	3009163.565	664343.2661	3009157.516	664353.6297	3009151.466
482	9+620	664340.8756	3009179.679	664352.0992	3009175.432	664363.3228	3009171.186
483	9+640	664346.065	3009196.892	664357.8376	3009194.566	664369.6098	3009192.241
484	9+660	664348.3266	3009214.727	664360.3218	3009214.387	664372.317	3009214.046
485	9+680	664347.6327	3009233.07	664359.5639	3009234.353	664371.4951	3009235.636
486	9+700	664345.4402	3009252.899	664357.3659	3009254.232	664369.2916	3009255.566
487	9+720	664343.2177	3009272.775	664355.1434	3009274.108	664367.069	3009275.442
488	9+740	664340.9952	3009292.651	664352.9208	3009293.984	664364.8465	3009295.318
489	9+760	664338.7791	3009312.234	664350.6689	3009313.857	664362.5586	3009315.48
490	9+780	664335.6406	3009330.228	664347.1766	3009333.533	664358.7124	3009336.838
491	9+800	664329.9075	3009347.435	664340.8005	3009352.469	664351.6936	3009357.502
492	9+820	664321.3712	3009364.122	664331.6859	3009370.254	664342.0003	3009376.387

R.No.	Date	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE: ROW Co-ordinates List Rhenock To Rongli Bazaar	
			 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with DSD Infratech Management Pvt. Ltd. in Association With Maverick Mernok & Construction 511, Tower b, Ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K		
						Checked By : AH		
						Approved By : VY		
						SCALE : NTS	DWG NO: XPL/DSD/SK/KM15.3/ROW/06	
							Sheet No: 06 OF 09	DATE: Nov-2024

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
493	9+840	664311.1281	3009381.251	664321.4212	3009387.419	664331.7143	3009393.588
494	9+860	664300.5941	3009402.05	664312.1967	3009405.113	664323.8259	3009408.183
495	9+880	664300.2183	3009428.393	664311.6763	3009424.827	664323.1344	3009421.261
496	9+900	664314.0117	3009450.776	664321.8673	3009441.705	664329.723	3009432.634
497	9+920	664331.3316	3009463.387	664338.0392	3009453.437	664344.7468	3009443.486
498	9+940	664347.9155	3009474.566	664354.623	3009464.616	664361.3306	3009454.666
499	9+960	664364.4993	3009485.745	664371.2069	3009475.795	664377.9145	3009465.845
500	9+980	664381.0831	3009496.925	664387.7907	3009486.974	664394.4983	3009477.024
501	10+000	664397.667	3009508.104	664404.3746	3009498.154	664411.0822	3009488.203
502	10+020	664414.2509	3009519.283	664420.9584	3009509.333	664427.666	3009499.383
503	10+040	664430.8347	3009530.463	664437.5423	3009520.512	664444.2499	3009510.562
504	10+060	664447.4185	3009541.642	664454.1261	3009531.692	664460.8337	3009521.741
505	10+080	664464.0024	3009552.821	664470.7099	3009542.871	664477.4175	3009532.921
506	10+100	664481.6953	3009564.164	664487.5313	3009553.679	664493.3676	3009543.194
507	10+120	664502.7067	3009573.151	664505.8532	3009561.571	664508.9997	3009549.991
508	10+140	664525.0404	3009576.827	664525.5382	3009564.838	664526.0359	3009552.848
509	10+160	664545.3636	3009577.373	664545.5292	3009565.374	664545.6948	3009553.375
510	10+180	664564.9527	3009577.696	664565.5257	3009565.71	664566.0988	3009553.724
511	10+200	664583.0964	3009579.47	664585.4052	3009567.694	664587.7138	3009555.919
512	10+220	664600.456	3009584.145	664604.6864	3009572.915	664608.9167	3009561.686
513	10+240	664616.7994	3009591.635	664622.8341	3009581.263	664628.8688	3009570.891
514	10+260	664631.6737	3009601.733	664639.3454	3009592.505	664647.0172	3009583.278
515	10+280	664644.637	3009614.128	664653.7612	3009606.334	664662.8855	3009598.54
516	10+300	664657.3275	3009629.294	664666.5955	3009621.672	664675.8635	3009614.049
517	10+320	664671.3217	3009645.363	664679.697	3009636.769	664688.0725	3009628.176
518	10+340	664691.2537	3009659.062	664696.0796	3009648.075	664700.9055	3009637.088
519	10+360	664714.2099	3009665.382	664715.2493	3009653.427	664716.2887	3009641.472
520	10+380	664735.163	3009666.021	664735.2312	3009654.022	664735.2994	3009642.022
521	10+400	664755.1626	3009666.135	664755.2308	3009654.135	664755.299	3009642.135
522	10+420	664775.1623	3009666.249	664775.2305	3009654.249	664775.2987	3009642.249
523	10+440	664794.1613	3009666.671	664795.2211	3009654.718	664796.281	3009642.764
524	10+460	664812.5073	3009668.958	664815.0491	3009657.231	664817.591	3009645.503
525	10+480	664830.425	3009673.516	664834.4091	3009662.196	664838.3932	3009650.877
526	10+500	664847.6344	3009680.272	664852.9987	3009669.538	664858.363	3009658.803
527	10+520	664863.867	3009689.121	664870.5277	3009679.14	664877.1885	3009669.158
528	10+540	664878.8695	3009699.926	664886.7227	3009690.852	664894.5755	3009681.779
529	10+560	664892.4075	3009712.516	664901.3307	3009704.493	664910.2539	3009696.469
530	10+580	664904.2699	3009726.697	664914.1238	3009719.849	664923.9777	3009713
531	10+600	664914.2714	3009742.246	664924.9022	3009736.68	664935.5331	3009731.114
532	10+620	664922.256	3009758.921	664933.4978	3009754.724	664944.7397	3009750.526
533	10+640	664928.0987	3009776.462	664939.7762	3009773.699	664951.4538	3009770.925

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
534	10+660	664931.7721	3009794.894	664943.6664	3009793.305	664955.5606	3009791.716
535	10+680	664933.5816	3009814.176	664945.5431	3009813.215	664957.5045	3009812.254
536	10+700	664935.1834	3009834.112	664947.1448	3009833.151	664959.1062	3009832.19
537	10+720	664938.9684	3009857.08	664950.1992	3009852.854	664961.4302	3009848.627
538	10+740	664953.1104	3009878.556	664960.9401	3009869.462	664968.7699	3009860.369
539	10+760	664975.8199	3009890.617	664978.3315	3009878.882	664980.8431	3009867.148
540	10+780	665000.3919	3009890.881	664998.1595	3009879.091	664995.9271	3009867.3
541	10+800	665020.1438	3009886.972	665017.7786	3009875.207	665015.4134	3009863.443
542	10+820	665039.7515	3009883.03	665037.3863	3009871.265	665035.0211	3009859.501
543	10+840	665058.9967	3009879.288	665057.0187	3009867.452	665055.0408	3009855.616
544	10+860	665077.3243	3009877.186	665076.8802	3009865.194	665076.4361	3009853.202
545	10+880	665095.9811	3009877.098	665096.8694	3009865.131	665097.7577	3009853.164
546	10+900	665114.5324	3009879.08	665116.7422	3009867.285	665118.9519	3009855.491
547	10+920	665132.7495	3009883.107	665136.2535	3009871.63	665139.7575	3009860.153
548	10+940	665150.4078	3009889.129	665155.1627	3009878.112	665159.9177	3009867.094
549	10+960	665167.2893	3009897.073	665173.2365	3009886.65	665179.1838	3009876.228
550	10+980	665183.1855	3009906.84	665190.2518	3009897.141	665197.3182	3009887.442
551	11+000	665198.1107	3009918.453	665206.0196	3009909.428	665213.9285	3009900.403
552	11+020	665213.0554	3009931.638	665221.0171	3009922.66	665228.9788	3009913.681
553	11+040	665228.0195	3009944.907	665235.9811	3009935.929	665243.9428	3009926.951
554	11+060	665242.9835	3009958.177	665250.9451	3009949.199	665258.9068	3009940.22
555	11+080	665257.9474	3009971.446	665265.9091	3009962.468	665273.8709	3009953.49
556	11+100	665272.9115	3009984.716	665280.8731	3009975.737	665288.8348	3009966.759
557	11+120	665288.2275	3009998.202	665295.8793	3009988.958	665303.5312	3009979.715
558	11+140	665305.6906	3010011.129	665311.9172	3010000.871	665318.1439	3009990.613
559	11+160	665325.2538	3010021.133	665329.6924	3010009.984	665334.131	3009998.835
560	11+180	665346.2056	3010027.753	665348.7332	3010016.022	665351.2608	3010004.292
561	11+200	665368.0694	3010030.8	665368.5123	3010018.808	665368.9552	3010006.816
562	11+220	665389.1545	3010030.549	665388.499	3010018.567	665387.8434	3010006.585
563	11+240	665409.1291	3010029.448	665408.4687	3010017.467	665407.8084	3010005.485
564	11+260	665429.0988	3010028.348	665428.4384	3010016.366	665427.7781	3010004.384
565	11+280	665449.0685	3010027.247	665448.4081	3010015.266	665447.7478	3010003.284
566	11+300	665468.8632	3010026.191	665468.3797	3010014.201	665467.8962	3010002.211
567	11+320	665488.148	3010025.718	665488.371	3010013.72	665488.594	3010001.722
568	11+340	665507.33	3010026.456	665508.3518	3010014.5	665509.3736	3010002.543
569	11+360	665526.4206	3010028.47	665528.2366	3010016.608	665530.0526	3010004.747
570	11+380	665545.3512	3010031.749	665547.9381	3010020.03	665550.5245	3010008.313
571	11+400	665564.5131	3010036.208	665567.4161	3010024.565	665570.3191	3010012.921
572	11+420	665583.9089	3010041.055	665586.8196	3010029.413	665589.7302	3010017.771
573	11+440	665603.3116	3010045.906	665606.2223	3010034.264	665609.1329	3010022.623
574	11+460	665622.7144	3010050.757	665625.625	3010039.115	665628.5357	3010027.473

R.No.	Date	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE: ROW Co-ordinates List Rhenock To Rongli Bazaar	
			 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with DSD Infratech Management Pvt. Ltd. in Association With Maverick Mernok & Construction 511, Tower b, Ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K		
						Checked By : AH		
						Approved By : VY	DWG NO: XPL/DSD/SK/KM15.3/ROW/07	
						SCALE : NTS	Sheet No: 07 OF 09	DATE: Nov-2024

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
575	11+480	665642.1171	3010055.608	665645.0277	3010043.966	665647.9384	3010032.325
576	11+500	665661.5199	3010060.459	665664.4305	3010048.817	665667.3412	3010037.176
577	11+520	665680.9226	3010065.31	665683.8332	3010053.668	665686.7439	3010042.027
578	11+540	665700.3254	3010070.161	665703.236	3010058.52	665706.1467	3010046.878
579	11+560	665719.7281	3010075.012	665722.6387	3010063.371	665725.5494	3010051.729
580	11+580	665739.1309	3010079.863	665742.0415	3010068.222	665744.9522	3010056.58
581	11+600	665758.0339	3010084.719	665761.4105	3010073.204	665764.7868	3010061.69
582	11+620	665776.3648	3010090.477	665780.4848	3010079.206	665784.6048	3010067.935
583	11+640	665794.2596	3010097.424	665799.1213	3010086.453	665803.983	3010075.482
584	11+660	665811.6519	3010105.549	665817.2336	3010094.926	665822.8154	3010084.303
585	11+680	665828.4643	3010114.814	665834.7413	3010104.587	665841.0182	3010094.359
586	11+700	665844.622	3010125.179	665851.5663	3010115.392	665858.5108	3010105.606
587	11+720	665860.0534	3010136.597	665867.6343	3010127.295	665875.2151	3010117.993
588	11+740	665874.7636	3010149.074	665882.8794	3010140.235	665890.9951	3010131.395
589	11+760	665888.9191	3010162.618	665897.3302	3010154.059	665905.7414	3010145.5
590	11+780	665903.1837	3010176.636	665911.5948	3010168.078	665920.006	3010159.519
591	11+800	665917.4483	3010190.655	665925.8594	3010182.096	665934.2706	3010173.537
592	11+820	665931.7129	3010204.674	665940.1241	3010196.115	665948.5352	3010187.556
593	11+840	665945.9776	3010218.692	665954.3887	3010210.133	665962.7998	3010201.575
594	11+860	665960.2422	3010232.711	665968.6533	3010224.152	665977.0645	3010215.593
595	11+880	665974.946	3010247.006	665982.9868	3010238.099	665991.0278	3010229.191
596	11+900	665994.5222	3010260.353	665999.3915	3010249.386	666004.2608	3010238.418
597	11+920	666017.5382	3010266.725	666018.5509	3010254.768	666019.5636	3010242.811
598	11+940	666041.3721	3010265.214	666038.4167	3010253.584	666035.4613	3010241.953
599	11+960	666063.3154	3010256.052	666056.8056	3010245.972	666050.2957	3010235.891
600	11+980	666080.2342	3010243.855	666073.0156	3010234.269	666065.7969	3010224.683
601	12+000	666096.2109	3010231.824	666088.9923	3010222.238	666081.7736	3010212.652
602	12+020	666112.1876	3010219.793	666104.969	3010210.207	666097.7503	3010200.621
603	12+040	666128.1642	3010207.762	666120.9455	3010198.176	666113.7269	3010188.59
604	12+060	666144.1409	3010195.731	666136.9223	3010186.145	666129.7035	3010176.559
605	12+080	666160.1175	3010183.7	666152.8989	3010174.114	666145.6802	3010164.528
606	12+100	666176.0942	3010171.669	666168.8756	3010162.083	666161.6569	3010152.497
607	12+120	666191.6109	3010160.193	666184.9627	3010150.203	666178.3145	3010140.213
608	12+140	666206.8999	3010151.91	666202.531	3010140.734	666198.162	3010129.558
609	12+160	666224.7558	3010146.348	666221.6068	3010134.768	666218.4578	3010123.189
610	12+180	666244.0548	3010141.1	666240.9058	3010129.52	666237.7568	3010117.941
611	12+200	666263.6767	3010135.699	666260.1894	3010124.216	666256.7021	3010112.734
612	12+220	666284.8889	3010126.662	666278.5606	3010116.466	666272.2324	3010106.27
613	12+240	666302.8793	3010112.122	666294.0809	3010103.962	666285.2825	3010095.802
614	12+260	666316.0465	3010095.151	666306.3017	3010088.148	666296.5569	3010081.146
615	12+280	666327.5462	3010079.25	666318.0255	3010071.946	666308.5048	3010064.641

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
616	12+300	666339.0697	3010067.05	666331.7837	3010057.515	666324.4978	3010047.98
617	12+320	666353.2098	3010058.672	666348.9813	3010047.441	666344.7528	3010036.211
618	12+340	666371.3726	3010052.908	666368.0321	3010041.382	666364.6916	3010029.857
619	12+360	666390.5819	3010047.341	666387.2414	3010035.815	666383.9009	3010024.289
620	12+380	666410.7768	3010040.948	666406.3113	3010029.81	666401.8457	3010018.671
621	12+400	666430.6242	3010030.972	666424.1608	3010020.862	666417.6973	3010010.751
622	12+420	666447.5218	3010020.015	666440.9412	3010009.98	666434.3606	3009999.945
623	12+440	666463.4887	3010009.839	666457.8204	3009999.262	666452.1521	3009988.685
624	12+460	666478.4562	3010004.273	666476.5149	3009992.431	666474.5737	3009980.59
625	12+480	666494.5235	3010003.913	666496.415	3009992.063	666498.3065	3009980.214
626	12+500	666511.2074	3010008.92	666515.5454	3009997.731	666519.8834	3009986.543
627	12+520	666529.8415	3010016.16	666534.1878	3010004.974	666538.534	3009993.789
628	12+540	666549.9778	3010023.257	666553.0276	3010011.651	666556.0781	3010000.042
629	12+560	666573.9291	3010025.231	666572.8701	3010013.278	666571.8111	3010001.325
630	12+580	666595.2977	3010021.098	666592.475	3010009.434	666589.6523	3009997.771
631	12+600	666614.7366	3010016.393	666611.9139	3010004.73	666609.0912	3009993.067
632	12+620	666634.1754	3010011.689	666631.3527	3010000.025	666628.53	3009988.362
633	12+640	666653.1164	3010007.208	666650.8166	3009995.431	666648.5169	3009983.654
634	12+660	666669.179	3010006.189	666670.6944	3009994.285	666672.2098	3009982.381
635	12+680	666685.0412	3010010.513	666689.9017	3009999.541	666694.7622	3009988.57
636	12+700	666702.8654	3010018.865	666708.0121	3010008.025	666713.1587	3009997.185
637	12+720	666721.8325	3010027.532	666726.1923	3010016.352	666730.5521	3010005.172
638	12+740	666744.0944	3010033.366	666745.4784	3010021.446	666746.8626	3010009.524
639	12+760	666764.8433	3010034.819	666765.4238	3010022.833	666766.0043	3010010.847
640	12+780	666784.8809	3010035.783	666785.4007	3010023.795	666785.9205	3010011.806
641	12+800	666807.7631	3010034.727	666805.3306	3010022.976	666802.8981	3010011.225
642	12+820	666829.7838	3010026.792	666824.0696	3010016.24	666818.3553	3010005.688
643	12+840	666847.3934	3010016.762	666841.4461	3010006.34	666835.4989	3009995.917
644	12+860	666862.3838	3010009.798	666859.6038	3009998.125	666856.8238	3009986.451
645	12+880	666878.1457	3010008.723	666879.4385	3009996.793	666880.7313	3009984.863
646	12+900	666897.8495	3010011.038	666899.3016	3009999.127	666900.7537	3009987.215
647	12+920	666918.3301	3010013.37	666919.1705	3010001.399	666920.0108	3009989.429
648	12+940	666942.0811	3010011.555	666939.0257	3009999.951	666935.9703	3009988.346
649	12+960	666963.835	3010002.267	666957.349	3009992.171	666950.8631	3009982.075
650	12+980	666980.7344	3009990.529	666973.7684	3009980.758	666966.8025	3009970.986
651	13+000	666997.0196	3009978.919	666990.0537	3009969.148	666983.0879	3009959.377
652	13+020	667012.0802	3009969.338	667006.9469	3009958.492	667001.8136	3009947.645
653	13+040	667028.8206	3009963.653	667025.833	3009952.031	667022.8455	3009940.409
654	13+060	667049.0212	3009958.238	667045.1543	3009946.878	667041.2873	3009935.518
655	13+080	667070.0586	3009947.931	667063.0615	3009938.182	667056.0644	3009928.433
656	13+100	667086.1321	3009935.46	667078.8555	3009925.918	667071.5795	3009916.377

R.No.	Date	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:	
			 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with DSD Infratech Management Pvt. Ltd. in Association With Maverick Mernok & Construction 511, Tower b, Ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gratation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K	ROW Co-ordinates List Rhenock To Rongli Bazzar	
						Checked By : AH		
						Approved By : VY	DWG NO: XPL/DSD/SK/KM15.3/ROW/08	
						SCALE : NTS		
							Sheet No: 08 OF 09	DATE: Nov-2024

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
657	13+120	667099.9685	3009927.374	667096.1112	3009916.011	667092.2539	3009904.648
658	13+140	667116.7394	3009924.562	667115.7558	3009912.602	667114.7722	3009900.643
659	13+160	667136.6678	3009922.931	667135.6892	3009910.971	667134.7107	3009899.011
660	13+180	667158.4493	3009920.276	667155.5355	3009908.635	667152.6207	3009896.99
661	13+200	667180.3394	3009911.399	667174.0043	3009901.208	667167.6692	3009891.016
662	13+220	667197.5801	3009898.035	667189.7628	3009888.93	667181.9455	3009879.826
663	13+240	667212.7541	3009885.006	667204.9368	3009875.901	667197.1195	3009866.797
664	13+260	667227.4289	3009872.658	667220.2508	3009863.042	667213.0727	3009853.425
665	13+280	667241.0264	3009865.786	667238.0268	3009854.167	667235.0272	3009842.548
666	13+300	667258.6036	3009863.636	667257.8307	3009851.661	667257.0578	3009839.685
667	13+320	667278.562	3009862.347	667277.7891	3009850.372	667277.0162	3009838.397
668	13+340	667298.5205	3009861.059	667297.7476	3009849.084	667296.9747	3009837.109
669	13+360	667319.1486	3009859.478	667317.688	3009847.568	667316.2275	3009835.657
670	13+380	667341.042	3009854.681	667337.195	3009843.314	667333.3479	3009831.947
671	13+400	667361.4998	3009845.656	667355.4713	3009835.28	667349.4427	3009824.905
672	13+420	667379.7997	3009832.729	667371.797	3009823.787	667363.7942	3009814.845
673	13+440	667394.6713	3009818.405	667386.1945	3009809.911	667377.7176	3009801.418
674	13+460	667408.1075	3009805.678	667400.7427	3009796.203	667393.3783	3009786.728
675	13+480	667422.5345	3009796.684	667417.699	3009785.702	667412.8634	3009774.719
676	13+500	667438.8796	3009791.491	667436.7183	3009779.687	667434.557	3009767.884
677	13+520	667458.2358	3009788.464	667456.476	3009776.594	667454.7161	3009764.724
678	13+540	667478.7548	3009785.233	667476.2329	3009773.501	667473.7109	3009761.769
679	13+560	667500.6616	3009777.982	667495.1768	3009767.309	667489.6919	3009756.636
680	13+580	667519.8893	3009764.746	667511.6187	3009756.051	667503.3481	3009747.357
681	13+600	667534.6062	3009746.627	667524.2203	3009740.616	667513.8344	3009734.604
682	13+620	667543.6185	3009725.094	667531.9594	3009722.254	667520.3005	3009719.413
683	13+640	667546.3702	3009702.548	667534.3704	3009702.457	667522.3707	3009702.367
684	13+660	667546.442	3009682.701	667534.4444	3009682.457	667522.4478	3009682.214
685	13+680	667548.9933	3009669.124	667538.5905	3009663.143	667528.1877	3009657.161
686	13+700	667558.2367	3009660.865	667553.1824	3009649.981	667548.1281	3009639.097
687	13+720	667576.1173	3009653.523	667571.6754	3009642.375	667567.2334	3009631.228
688	13+740	667592.6462	3009647.638	667590.5362	3009635.825	667588.4262	3009624.012
689	13+760	667604.2825	3009649.285	667609.9401	3009638.702	667615.5977	3009628.12
690	13+780	667613.5684	3009658.925	667623.8299	3009652.704	667634.0914	3009646.483
691	13+800	667623.7114	3009676.003	667634.0433	3009669.899	667644.3753	3009663.796
692	13+820	667633.8836	3009693.223	667644.2156	3009687.119	667654.5475	3009681.016
693	13+840	667644.0559	3009710.442	667654.3878	3009704.339	667664.7198	3009698.236
694	13+860	667654.2281	3009727.662	667664.56	3009721.559	667674.892	3009715.456
695	13+880	667664.4004	3009744.882	667674.7323	3009738.779	667685.0643	3009732.676
696	13+900	667674.5727	3009762.102	667684.9046	3009755.999	667695.2366	3009749.896
697	13+920	667684.7449	3009779.322	667695.0768	3009773.219	667705.4088	3009767.126

ROW Details Chainage Wise As Per Khasra Map (Rhenock to Rongli Bridge) NH717B							
Sl. No	Chainage	LHS ROW Coordinates		Center Line Coordinates		RHS Coordinates	
		Easting	Northing	Easting	Northing	Easting	Northing
698	13+940	667694.9172	3009796.542	667705.2491	3009790.439	667715.5811	3009784.335
699	13+960	667705.3047	3009814.037	667715.456	3009807.638	667725.6073	3009801.238
700	13+980	667717.1865	3009831.582	667726.6482	3009824.202	667736.11	3009816.821
701	14+000	667730.7608	3009847.854	667739.4384	3009839.565	667748.1161	3009831.277
702	14+020	667745.8919	3009862.689	667753.6987	3009853.575	667761.5055	3009844.462
703	14+040	667762.4285	3009875.939	667769.2864	3009866.091	667776.1444	3009856.244
704	14+060	667780.1414	3009887.444	667786.0422	3009876.995	667791.9431	3009866.547
705	14+080	667797.8853	3009897.161	667803.5841	3009886.6	667809.2829	3009876.04
706	14+100	667815.4859	3009906.659	667821.1848	3009896.098	667826.8836	3009885.538
707	14+120	667833.9084	3009916.304	667838.8928	3009905.388	667843.8771	3009894.472
708	14+140	667855.4829	3009923.449	667857.8234	3009911.679	667860.1639	3009899.91
709	14+160	667875.6135	3009926.894	667877.5357	3009915.049	667879.4578	3009903.204
710	14+180	667895.2703	3009930.092	667897.2761	3009918.26	667899.2818	3009906.429
711	14+200	667913.6119	3009933.709	667916.8814	3009922.163	667920.1508	3009910.617
712	14+220	667931.3284	3009939.493	667935.8725	3009928.387	667940.4165	3009917.281
713	14+240	667949.6975	3009947.121	667954.3432	3009936.057	667958.9889	3009924.992
714	14+260	667968.138	3009954.864	667972.7836	3009943.799	667977.4293	3009932.735
715	14+280	667986.5785	3009962.607	667991.2242	3009951.542	667995.8698	3009940.478
716	14+300	668005.0189	3009970.349	668009.6645	3009959.285	668014.3102	3009948.221
717	14+320	668023.4593	3009978.092	668028.105	3009967.028	668032.7506	3009955.963
718	14+340	668041.7783	3009985.801	668046.5388	3009974.786	668051.2992	3009963.771
719	14+360	668057.6194	3009993.924	668064.2839	3009983.945	668070.9485	3009973.966
720	14+380	668069.1419	3010004.911	668078.7084	3009997.667	668088.2751	3009990.423
721	14+400	668077.6345	3010020	668088.5567	3010015.03	668099.479	3010010.059
722	14+420	668085.9006	3010038.314	668096.7833	3010033.259	668107.6666	3010028.204
723	14+440	668099.5256	3010058.725	668107.6408	3010049.885	668115.7561	3010041.045
724	14+460	668121.8191	3010071.354	668124.7935	3010059.728	668127.7679	3010048.103
725	14+480	668143.0538	3010074.795	668144.5207	3010062.885	668145.9876	3010050.975
726	14+500	668160.012	3010077.942	668164.1162	3010066.666	668168.2204	3010055.389
727	14+520	668176.0276	3010085.734	668182.0734	3010075.368	668188.1192	3010065.003
728	14+540	668193.295	3010095.815	668199.3453	3010085.452	668205.3956	3010075.089
729	14+560	668210.5668	3010105.899	668216.617	3010095.536	668222.6673	3010085.173
730	14+580	668227.8386	3010115.983	668233.8889	3010105.62	668239.9392	3010095.256
731	14+589	668235.9182	3010120.7	668241.9685	3010110.337	668248.0188	3010099.974

R.No.	Date	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE: ROW Co-ordinates List Rhenock To Rongli Bazaar	
			 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with  DSD Infratech Management Pvt. Ltd. in Association With  Mernok & Construction 511, Tower b, Ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K		
						Checked By : AH		
						Approved By : VY		
						SCALE : NTS	DWG NO: XPL/DSK/SK/KM15.3/ROW/09	
							Sheet No: 09 OF 09	DATE: Nov-2024

HORIZONTAL & VERTICAL ALIGNMENT REPORT

HORIZONTAL ALIGNMENT REPORT

HIP No.	HIP Easting	HIP Northing	Radius	Transitio n Length	TS	SC/TC	CS/CT	ST	HIP Chainage	SPEED (V) in KMPH	D	Lc	Dc	SHIFT (S)	Ts(Deg)	EXTERN AL DISTANC E (Es)	K	Ts(m)	Super elevation e (%)	Extra Widenin g	Deflection Angle	Direction of curve
0	661920.8564	3007585.219	0	0																		
1	661912.761	3007623.232	300	15	5.179	20.179	57.415	72.415	38.797	50	0.1741	37.24	0.1241	0.03	0.0250	1.171	7.499844	33.69	3.70	0.600	07 06 41.311	Left
2	661890.3032	3007678.822	250	15	72.427	87.427	109.864	124.864	98.646	50	0.1497	22.44	0.0897	0.04	0.0300	0.743	7.499775	26.26	4.44	0.600	05 08 31.801	Right
3	661849.3957	3007850.288	130	15	227.935	242.935	304.502	319.502	273.719	40	0.5890	61.57	0.4736	0.07	0.0577	5.921	7.499168	46.95	5.47	0.600	27 08 06.269	Left
4	661758.0342	3007934.994	150	15	360.643	375.643	417.905	432.905	396.774	40	0.3817	42.26	0.2817	0.06	0.0500	2.836	7.499375	36.49	4.74	0.600	16 08 34.195	Right
5	661667.1037	3008127.427	120	15	517.007	532.007	664.497	679.497	598.252	40	1.2291	132.49	1.1041	0.08	0.0625	26.970	7.499024	92.24	5.93	0.600	63 15 33.834	Left
6	661491.9665	3008109.904	28	15	727.674	742.674	779.269	794.269	760.972	20	1.8427	36.60	1.3070	0.33	0.2679	18.845	7.482099	44.79	6.35	1.500	74 53 01.679	Right
7	661485.5034	3008177.24	28	0		780.561	825.15		802.856	20	1.5925	44.59	1.5925	0.00	0.0000	12.034	0	28.61	6.35	1.500	91 14 32.077	Right
8	661624.3914	3008149.974	120	15	913.099	928.099	944.796	959.796	936.448	40	0.2641	16.70	0.1391	0.08	0.0625	1.135	7.499024	23.45	5.93	0.600	07 58 20.418	Right
9	661711.9265	3008106.824	60	15	1007.749	1022.749	1043.903	1058.903	1033.326	30	0.6026	21.15	0.3526	0.16	0.1250	2.998	7.496095	26.19	6.67	1.200	20 12 03.668	Right
10	661748.4383	3008041.585	110	25	1074.946	1099.946	1114.497	1139.497	1107.222	40	0.3596	14.55	0.1323	0.24	0.1136	2.046	12.49462	32.53	6.46	0.600	07 34 44.696	Left
11	661851.4517	3007954.639	80	25	1208.308	1233.308	1249.168	1274.168	1241.238	40	0.5107	15.86	0.1982	0.33	0.1563	3.023	12.48983	33.46	8.89	0.900	11 21 31.303	Left
12	661960.2332	3007933.689	60	25	1298.221	1323.221	1369.461	1394.461	1346.341	35	1.1873	46.24	0.7707	0.43	0.2083	12.904	12.48194	53.26	9.07	1.200	44 09 20.802	Right
13	661981.8211	3007823.344	100	25	1418.531	1443.531	1462.884	1487.884	1453.208	40	0.4435	19.35	0.1935	0.26	0.1250	2.777	12.49349	35.10	7.11	0.900	11 05 17.027	Left
14	662050.7619	3007730.113	70	25	1523.415	1548.415	1584.534	1609.534	1566.475	35	0.8731	36.12	0.5160	0.37	0.1786	7.653	12.48673	45.32	7.78	0.900	29 33 49.953	Right
15	662011.436	3007566.876	30	25	1675.350	1700.350	1733.115	1758.115	1716.733	20	1.926	32.765	1.092	0.870	0.417	24.038	12.428	56.781	5.926	1.500	62 34 34.960	Left
16	662120.679	3007579.859	60	25	1780.731	1805.731	1815.731	1840.731	1810.731	35	0.583	10.000	0.167	0.430	0.208	3.095	12.482	30.625	9.074	1.200	09 32 56.122	Right
17	662174.764	3007552.723	60	15	1847.604	1862.604	1877.895	1892.895	1870.250	30	0.505	15.291	0.255	0.160	0.125	2.129	7.496	23.013	6.667	1.200	14 36 04.683	Left
18	662239.258	3007555.292	60	15	1911.063	1926.063	1942.013	1957.013	1934.038	30	0.516	15.950	0.266	0.160	0.125	2.218	7.496	23.366	6.667	1.200	15 13 52.488	Right
19	662292.175	3007528.009	80	15	1967.894	1982.894	2002.860	2017.860	1992.877	30	0.437	19.966	0.250	0.120	0.094	2.072	7.498	25.291	5.000	0.900	14 17 56.860	Left
20	662445.205	3007522.044	150	15	2102.601	2117.601	2172.508	2187.508	2145.055	40	0.466	54.907	0.366	0.060	0.050	4.228	7.499	43.114	4.741	0.600	20 58 22.116	Right
21	662644.124	3007412.078	350	15	2344.186	2359.186	2384.138	2399.138	2371.662	50	0.114	24.952	0.071	0.030	0.021	0.601	7.500	27.499	3.175	0.000	04 05 05.124	Left
22	662850.532	3007327.027	60	15	2564.629	2579.629	2608.031	2623.031	2593.830	30	0.723	28.402	0.473	0.160	0.125	4.321	7.496	30.256	6.667	1.200	27 07 15.965	Right
23	662896.793	3007232.849	100	15	2649.779	2664.779	2726.547	2741.547	2695.663	35	0.768	61.768	0.618	0.090	0.075	7.945	7.499	47.922	5.444	0.900	35 23 24.885	Left
24	662988.791	3007199.628	30	15	2758.485	2773.485	2808.275	2823.275	2790.880	20	1.660	34.790	1.160	0.310	0.250	14.904	7.484	40.615	5.926	1.500	66 26 37.045	Left
25	663019.669	3007255.134	30	0		2809.940	2854.757		2832.349	20	1.494	44.817	1.494	0.000	0.000	10.885	0.000	27.777	5.926	1.500	85 35 39.083	Left
26	662916.091	3007291.141	80	25	2895.083	2920.083	2949.817	2974.817	2934.950	40	0.684	29.734	0.372	0.330	0.156	5.271	12.490	41.094	8.889	0.900	21 17 42.850	Right
27	662839.289	3007415.831	200	15	3056.033	3071.033	3089.222	3104.222	3080.128	40	0.166	18.189	0.091	0.050	0.038	0.741	7.500	24.136	3.556	0.600	05 12 39.146	Right
28	662805.345	3007499.330	60	25	3124.806	3149.806	3184.681	3209.681	3167.244	35	0.998	34.875	0.581	0.430	0.208	8.820	12.482	45.413	9.074	1.200	33 18 12.845	Left
29	662702.391	3007518.784	60	25	3230.443	3255.443	3279.393	3304.393	3267.418	35	0.816	23.950	0.399	0.430	0.208	5.832	12.482	38.597	9.074	1.200	22 52 14.210	Right
30	662608.707	3007665.525	120	25	3379.869	3404.869	3470.224	3495.224	3437.547	40	0.753	65.355	0.545	0.220	0.104	9.274	12.495	60.023	5.926	0.600	31 12 17.377	Left
31	662508.601	3007691.047	80	15	3517.536	3532.536	3544.202	3559.202	3538.369	30	0.333	11.666	0.146	0.120	0.094	1.246	7.498	20.976	5.000	0.900	08 21 19.142	Right
32	662434.920	3007739.633	100	15	3590.063	3605.063	3646.322	3661.322	3625.693	35	0.563	41.259	0.413	0.090	0.075	4.185	7.499	36.420	5.444	0.900	23 38 22.949	Left
33	662349.610	3007741.371	27	15	3674.508	3689.508	3725.616	3740.616	3707.562	20	1.893	36.108	1.337	0.350	0.278	19.786	7.481	45.441	6.584	1.500	76 37 20.619	Right
34	662353.767	3007805.559	27	0		3727.565	3768.217		3747.891	20	1.506	40.652	1.506	0.000	0.000	9.998	0.000	25.295	6.584	1.500	86 15 53.584	Right
35	662444.824	3007779.646	250	15	3815.637	3830.637	3843.100	3858.100	3836.869	50	0.110	12.463	0.050	0.040	0.030	0.418	7.500	21.247	4.444	0.600	02 51 22.475	Right
36	662504.447	3007755.340	60	15	3879.089	3894.089	3907.763	3922.763	3900.926	30	0.478	13.674	0.228	0.160	0.125	1.919	7.496	22.151	6.667	1.200	13 03 27.960	Left
37	662581.676	3007762.371	60	15	3949.961	3964.961	3989.739	4004.739	3977.350	30	0.663	24.778	0.413	0.160	0.125	3.624	7.496	28.202	6.667	1.200	23 39 38.592	Right
38	662742.437	3007658.838	60	25	4133.433	4158.433	4175.045	4200.045	4166.739	35	0.694	16.612	0.277	0.430	0.208	4.255	12.482	34.319	9.074	1.200	15 51 48.362	Left
39	662881.317	3007675.778	60	25	4260.224	4285.224	4320.089	4345.089	4302.657	35	0.998	34.865	0.581	0.430	0.208	8.817	12.482	45.407	9.074	1.200	33 17 38.806	Right
40	663032.714	3007493.981	200	15	4503.350	4518.350	4553.893	4568.893	4536.122	40	0.253	35.543	0.178	0.050	0.038	1.658	7.500	32.913	3.556	0.600	10 10 56.038	Left
41	663197.092	3007375.718	100	25	4701.305	4726.305	4749.582	4774.582	4737.944	40	0.483	23.277	0.233	0.260	0.125	3.254	12.493	37.176	7.111	0.900	13 20 11.770	Right

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with  DSD Infrastructure Management Pvt. Ltd. , in Association With  Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K	Horizontal Alignment Report Rhenock To Rongli Bazaar
					Checked By : AH	
					Approved By : VY	
					SCALE- NTS	DWG NO: XPL/DSD/SK/KM15.3/HAR/01
						HAR: 01 OF 03 DATE: Nov-2024

HORIZONTAL ALIGNMENT REPORT

HIP No.	HIP Easting	HIP Northing	Radius	Transitio n Length	TS	SC/TC	CS/CT	ST	HIP Chainage	SPEED (V) in KMPH	D	Lc	Dc	SHIFT (S)	Ts(Deg)	EXTERN AL DISTANC E (Es)	K	Ts(m)	Super elevation e (%)	Extra Widenin g	Deflection Angle	Direction of curve
42	663234.379	3007301.275	250	15	4795.400	4810.400	4830.866	4845.866	4820.633	50	0.142	20.466	0.082	0.040	0.030	0.670	7.500	25.265	4.444	0.600	04 41 25.681	Left
43	663286.779	3007225.696	50	15	4886.208	4901.208	4922.163	4937.163	4911.686	25	0.719	20.955	0.419	0.190	0.150	3.619	7.494	26.360	5.556	1.200	24 00 47.071	Right
44	663280.916	3007173.976	40	15	4945.245	4960.245	4964.956	4979.956	4962.601	20	0.493	4.711	0.118	0.230	0.188	1.483	7.491	17.609	4.444	1.500	06 44 55.350	Left
45	663343.396	3007017.503	70	25	5073.549	5098.549	5152.911	5177.911	5125.730	35	1.134	54.362	0.777	0.370	0.179	13.418	12.487	57.282	7.778	0.900	44 29 45.051	Left
46	663574.725	3007004.269	60	15	5315.816	5330.816	5369.759	5384.759	5350.288	30	0.899	38.943	0.649	0.160	0.125	6.796	7.496	36.521	6.667	1.200	37 11 16.203	Right
47	663635.020	3006918.838	25	15	5408.511	5423.511	5464.632	5479.632	5444.072	20	2.245	41.121	1.645	0.380	0.300	33.546	7.478	60.237	7.111	1.500	94 14 31.366	Left
48	663671.971	3006974.972	25	0		5466.615	5501.011		5483.813	20	1.376	34.396	1.376	0.000	0.000	7.360	0.000	20.546	7.111	1.500	78 49 45.507	Left
49	663541.852	3007042.240	180	15	5599.009	5614.009	5640.195	5655.195	5627.102	40	0.229	26.186	0.145	0.050	0.042	1.235	7.500	28.189	3.951	0.600	08 20 06.581	Right
50	663481.344	3007093.822	120	15	5667.710	5682.710	5728.923	5743.923	5705.817	40	0.510	46.213	0.385	0.080	0.063	4.095	7.499	38.808	5.926	0.600	22 03 54.584	Right
51	663450.478	3007177.150	60	15	5773.844	5788.844	5798.691	5813.691	5793.768	30	0.414	9.847	0.164	0.160	0.125	1.473	7.496	20.134	6.667	1.200	09 24 10.306	Left
52	663404.863	3007224.299	50	15	5836.986	5851.986	5865.443	5880.443	5858.715	25	0.569	13.457	0.269	0.190	0.150	2.293	7.494	22.175	5.556	1.200	15 25 13.888	Right
53	663392.454	3007285.603	50	15	5897.887	5912.887	5927.722	5942.722	5920.305	25	0.597	14.835	0.297	0.190	0.150	2.510	7.494	22.929	5.556	1.200	17 00 02.620	Left
54	663334.788	3007342.009	80	15	5978.429	5993.429	6007.139	6022.139	6000.284	30	0.359	13.710	0.171	0.120	0.094	1.427	7.498	22.031	5.000	0.900	09 49 07.299	Right
55	663291.072	3007435.458	80	15	6079.804	6094.804	6111.296	6126.296	6103.050	30	0.394	16.492	0.206	0.120	0.094	1.697	7.498	23.474	5.000	0.900	11 48 40.782	Right
56	663288.048	3007504.240	120	15	6146.934	6161.934	6181.155	6196.155	6171.545	40	0.285	19.221	0.160	0.080	0.063	1.311	7.499	24.738	5.926	0.600	09 10 38.010	Left
57	663255.017	3007600.959	60	15	6248.174	6263.174	6282.973	6297.973	6273.074	30	0.580	19.799	0.330	0.160	0.125	2.781	7.496	25.448	6.667	1.200	18 54 23.860	Left
58	663196.651	3007646.419	120	15	6324.640	6339.640	6353.222	6368.222	6346.431	40	0.238	13.582	0.113	0.080	0.063	0.937	7.499	21.868	5.926	0.600	06 29 04.864	Right
59	663116.311	3007747.638	80	15	6449.106	6464.106	6486.322	6501.322	6475.214	30	0.465	22.216	0.278	0.120	0.094	2.337	7.498	26.477	5.000	0.900	15 54 39.118	Left
60	663039.612	3007783.251	50	15	6518.820	6533.820	6577.117	6592.117	6555.469	25	1.166	43.297	0.866	0.190	0.150	10.120	7.494	40.591	5.556	1.200	49 36 49.496	Right
61	663044.867	3007959.395	110	15	6688.218	6703.218	6750.515	6765.515	6726.867	40	0.566	47.297	0.430	0.090	0.068	4.656	7.499	39.534	6.465	0.600	24 38 09.079	Left
62	662995.571	3008042.286	80	15	6797.418	6812.418	6831.844	6846.844	6822.131	30	0.430	19.426	0.243	0.120	0.094	2.011	7.498	25.008	5.000	0.900	13 54 48.113	Left
63	662940.222	3008080.474	160	15	6865.873	6880.873	6897.180	6912.180	6889.027	40	0.196	16.307	0.102	0.060	0.047	0.829	7.499	23.209	4.444	0.600	05 50 22.415	Right
64	662892.176	3008129.906	120	15	6931.684	6946.684	6968.805	6983.805	6957.745	40	0.309	22.121	0.184	0.080	0.063	1.531	7.499	26.221	5.926	0.600	10 33 43.821	Left
65	662813.541	3008171.876	190	15	7023.609	7038.609	7054.750	7069.750	7046.680	40	0.164	16.141	0.085	0.050	0.039	0.690	7.500	23.109	3.743	0.600	04 52 02.855	Left
66	662704.901	3008208.648	45	15	7099.731	7114.731	7178.463	7193.463	7146.597	25	1.750	63.732	1.416	0.210	0.167	25.514	7.493	61.606	6.173	1.200	81 08 46.019	Right
67	662757.489	3008303.736	60	15	7216.241	7231.241	7248.888	7263.888	7240.065	30	0.544	17.647	0.294	0.160	0.125	2.457	7.496	24.279	6.667	1.200	16 51 06.946	Right
68	662812.562	3008335.378	100	15	7282.871	7297.871	7308.223	7323.223	7303.047	35	0.254	10.352	0.104	0.090	0.075	0.900	7.499	20.254	5.444	0.900	05 55 50.903	Left
69	662870.191	3008391.823	80	25	7343.855	7368.855	7396.256	7421.256	7382.556	40	0.655	27.401	0.343	0.330	0.156	4.839	12.490	39.781	8.889	0.900	19 37 28.834	Left
70	662881.149	3008469.150	250	15	7440.485	7455.485	7463.649	7478.649	7459.567	50	0.093	8.164	0.033	0.040	0.030	0.309	7.500	19.092	4.444	0.600	01 52 15.572	Right
71	662919.902	3008632.142	60	25	7561.333	7586.333	7648.039	7673.039	7617.186	35	1.445	61.706	1.028	0.430	0.208	20.560	12.482	65.756	9.074	1.200	58 55 29.920	Right
72	663081.575	3008614.657	60	25	7736.552	7761.552	7776.438	7801.438	7768.995	35	0.665	14.886	0.248	0.430	0.208	3.929	12.482	33.342	9.074	1.200	14 12 54.137	Left
73	663209.320	3008694.220	250	25	7880.230	7905.230	7931.751	7956.751	7918.491	50	0.206	26.521	0.106	0.100	0.050	1.434	12.499	38.361	4.444	0.600	06 04 40.958	Right
74	663370.123	3008753.092	150	15	8067.020	8082.020	8097.128	8112.128	8089.574	40	0.201	15.108	0.101	0.060	0.050	0.819	7.499	22.610	4.741	0.600	05 46 15.261	Right
75	663442.028	3008763.977	60	15	8119.059	8134.059	8183.311	8198.311	8158.685	30	1.071	49.252	0.821	0.160	0.125	9.950	7.496	43.185	6.667	1.200	47 01 54.298	Left
76	663491.694	3008900.163	170	15	8260.391	8275.391	8324.012	8339.012	8299.702	40	0.374	48.621	0.286	0.060	0.044	3.081	7.500	39.698	4.183	0.600	16 23 13.117	Left
77	663488.220	3009041.713	65	25	8404.545	8429.545	8450.054	8475.054	8439.800	35	0.700	20.509	0.316	0.400	0.192	4.623	12.485	36.363	8.376	0.900	18 04 39.748	Right
78	663546.160	3009114.012	30	15	8503.237	8518.237	8547.028	8562.028	8532.633	20	1.460	28.791	0.960	0.310	0.250	10.670	7.484	34.601	5.926	1.500	54 59 09.448	Right
79	663586.501	3009100.890	30	0		8548.221	8575.747		8561.984	20	0.918	27.526	0.918	0.000	0.000	3.460	0.000	14.817	5.926	1.500	52 34 18.267	Right
80	663596.245	3008991.396	60	15	8638.552	8653.552	8689.935	8704.935	8671.744	30	0.856	36.383	0.606	0.160	0.125	6.130	7.496	34.955	6.667	1.200	34 44 34.808	Left
81	663679.238	3008931.435	250	15	8742.561	8757.561	8787.053	8802.053	8772.307	50	0.178	29.492	0.118	0.040	0.030	1.033	7.500	29.808	4.444	0.600	06 45 32.297	Right
82	663749.253	3008858.822	50	15	8819.030	8834.030	8893.855	8908.855	8863.943	25	1.496	59.825	1.196	0.190	0.150	18.483	7.494	54.087	5.556	1.200	68 33 15.116	Left
83	663825.377	3008922.019	60	15	8924.388	8939.388	8966.152	8981.152	8946.770	30	0.696	26.764	0.446	0.160	0.125	3.997	7.496	29.322	6.667	1.200	25 33 29.599	Right
84	663896.093	3008921.793	60	15	9002.687	9017.687	9027.011	9042.011	9022.349	30	0.405	9.324	0.155	0.160	0.125	1.417	7.496	19.860	6.667	1.200	08 54 15.036	Left

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:	
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K	Horizontal Alignment Report Rhenock To Rongli Bazaar	
					Checked By : AH		
					Approved By : VY		
						HAR: 02 OF 03	DATE: Nov-2024

HORIZONTAL ALIGNMENT REPORT

HIP No.	HIP Easting	HIP Northing	Radius	Transitio n Length	TS	SC/TC	CS/CT	ST	HIP Chainage	SPEED (V) in KMPH	D	Lc	Dc	SHIFT (S)	Ts(Deg)	EXTERN AL DISTANC E (Es)	K	Ts(m)	Super elevation e (%)	Extra Widenin g	Deflection Angle	Direction of curve
85	664029.114	3008978.380	100	15	9107.734	9122.734	9202.735	9217.735	9162.735	35	0.950	80.001	0.800	0.090	0.075	12.550	7.499	58.973	5.444	0.900	45 50 14.078	Right
86	664149.108	3008905.174	50	15	9246.919	9261.919	9319.914	9334.914	9290.917	25	1.460	57.995	1.160	0.190	0.150	17.350	7.494	52.406	5.556	1.200	66 27 25.279	Left
87	664365.182	3009184.330	120	15	9579.359	9594.359	9671.766	9686.766	9633.063	40	0.770	77.407	0.645	0.080	0.063	9.566	7.499	56.162	5.926	0.600	36 57 33.365	Left
88	664347.302	3009344.235	130	15	9755.702	9770.702	9811.413	9826.413	9791.058	40	0.429	40.711	0.313	0.070	0.058	3.114	7.499	35.804	5.470	0.600	17 56 34.969	Left
89	664298.023	3009426.461	35	15	9845.544	9860.544	9898.659	9913.659	9879.602	20	1.518	38.115	1.089	0.270	0.214	13.603	7.489	40.930	5.079	1.500	62 23 41.342	Right
90	664503.226	3009564.790	80	25	10083.774	10108.774	10130.121	10155.121	10119.448	40	0.579	21.347	0.267	0.330	0.156	3.822	12.490	36.432	8.889	0.900	15 17 19.004	Right
91	664621.151	3009566.418	120	15	10173.423	10188.423	10277.667	10292.667	10233.045	40	0.869	89.244	0.744	0.080	0.063	12.372	7.499	63.204	5.926	0.600	42 36 39.607	Left
92	664693.005	3009653.782	60	15	10306.882	10321.882	10359.491	10374.491	10340.687	30	0.877	37.609	0.627	0.160	0.125	6.444	7.496	35.701	6.667	1.200	35 54 50.618	Right
93	664932.843	3009655.145	160	15	10424.259	10439.259	10661.850	10676.850	10550.555	40	1.485	222.591	1.391	0.060	0.047	57.237	7.499	154.376	4.444	0.600	79 42 33.522	Left
94	664951.593	3009888.513	40	15	10703.809	10718.809	10771.370	10786.370	10745.090	20	1.689	52.561	1.314	0.230	0.188	20.579	7.491	52.783	4.444	1.500	75 17 16.453	Right
95	665139.833	3009850.669	180	15	10828.452	10843.452	10994.744	11009.744	10919.098	40	0.924	151.292	0.841	0.050	0.042	21.129	7.500	97.137	3.951	0.600	48 09 28.775	Left
96	665332.644	3010021.645	120	15	11113.412	11128.412	11207.073	11222.073	11167.743	40	0.781	78.661	0.656	0.080	0.063	9.843	7.499	56.894	5.926	0.600	37 33 27.768	Right
97	665515.455	3010011.570	300	25	11290.408	11315.408	11380.424	11405.424	11347.916	50	0.300	65.016	0.217	0.090	0.042	3.499	12.499	57.862	3.704	0.600	12 25 01.781	Left
98	665833.170	3010091.006	300	15	11585.860	11600.860	11745.370	11760.370	11673.115	50	0.532	144.510	0.482	0.030	0.025	10.954	7.500	89.197	3.704	0.600	27 35 57.810	Left
99	666019.758	3010274.375	60	15	11873.468	11888.468	11958.796	11973.796	11923.632	30	1.422	70.328	1.172	0.160	0.125	19.402	7.496	59.317	6.667	1.200	67 09 31.875	Right
100	666195.844	3010141.775	90	15	12110.088	12125.088	12144.281	12159.281	12134.685	35	0.380	19.193	0.213	0.100	0.083	1.750	7.498	24.823	6.049	0.900	12 13 06.099	Left
101	666285.234	3010117.465	70	15	12194.703	12209.703	12242.454	12257.454	12226.079	35	0.682	32.751	0.468	0.130	0.107	4.417	7.497	32.390	7.778	0.900	26 48 26.735	Right
102	666332.510	3010051.678	70	15	12274.336	12289.336	12320.927	12335.927	12305.132	35	0.666	31.591	0.451	0.130	0.107	4.201	7.497	31.737	7.778	0.900	25 51 28.197	Left
103	666412.874	3010028.386	100	15	12365.319	12380.319	12395.152	12410.152	12387.736	35	0.298	14.833	0.148	0.090	0.075	1.214	7.499	22.540	5.444	0.900	08 29 54.128	Right
104	666480.428	3009984.085	60	15	12429.924	12444.924	12486.986	12501.986	12465.955	30	0.951	42.062	0.701	0.160	0.125	7.667	7.496	38.474	6.667	1.200	40 09 58.964	Left
105	666563.631	3010016.415	60	15	12526.406	12541.406	12562.890	12577.890	12552.148	30	0.608	21.484	0.358	0.160	0.125	3.052	7.496	26.372	6.667	1.200	20 30 55.069	Right
106	666670.968	3009990.438	60	15	12633.156	12648.156	12673.998	12688.998	12661.077	30	0.681	25.842	0.431	0.160	0.125	3.821	7.496	28.801	6.667	1.200	24 40 40.393	Left
107	666736.223	3010021.419	80	15	12708.910	12723.910	12740.500	12755.500	12732.205	30	0.395	16.590	0.207	0.120	0.094	1.707	7.498	23.525	5.000	0.900	11 52 52.530	Right
108	666809.195	3010024.953	60	15	12779.849	12794.849	12814.165	12829.165	12804.507	30	0.572	19.316	0.322	0.160	0.125	2.707	7.496	25.185	6.667	1.200	18 26 42.315	Right
109	666861.845	3009994.560	50	15	12840.513	12855.513	12872.755	12887.755	12864.134	25	0.645	17.242	0.345	0.190	0.150	2.917	7.494	24.262	5.556	1.200	19 45 28.113	Left
110	666940.890	3010004.196	60	15	12912.274	12927.274	12956.713	12971.713	12941.994	30	0.741	29.439	0.491	0.160	0.125	4.535	7.496	30.852	6.667	1.200	28 06 41.992	Right
111	667007.488	3009956.719	70	15	13002.063	13017.063	13027.896	13042.896	13022.480	35	0.369	10.833	0.155	0.130	0.107	1.341	7.497	20.587	7.778	0.900	08 52 02.659	Left
112	667055.750	3009944.381	60	15	13051.642	13066.642	13077.153	13092.153	13071.898	30	0.425	10.511	0.175	0.160	0.125	1.546	7.496	20.482	6.667	1.200	10 02 11.355	Right
113	667093.101	3009914.456	50	15	13096.683	13111.683	13126.374	13141.374	13119.029	25	0.594	14.691	0.294	0.190	0.150	2.487	7.494	22.850	5.556	1.200	16 50 04.477	Left
114	667167.084	3009908.403	60	15	13165.729	13180.729	13203.399	13218.399	13192.064	30	0.628	22.670	0.378	0.160	0.125	3.251	7.496	27.027	6.667	1.200	21 38 56.209	Right
115	667231.165	3009853.382	50	15	13251.568	13266.568	13283.819	13298.819	13275.194	25	0.645	17.251	0.345	0.190	0.150	2.918	7.494	24.267	5.556	1.200	19 46 06.853	Left
116	667350.345	3009845.689	100	15	13348.811	13363.811	13420.805	13435.805	13392.308	35	0.720	56.994	0.570	0.090	0.075	6.944	7.499	45.169	5.444	0.900	32 39 19.952	Right
117	667413.141	3009783.019	80	15	13445.428	13460.428	13496.405	13511.405	13478.417	30	0.637	35.977	0.450	0.120	0.094	4.366	7.498	33.925	5.000	0.900	25 46 00.585	Left
118	667534.382	3009765.044	70	15	13532.074	13547.074	13631.698	13646.698	13589.386	35	1.423	84.624	1.209	0.130	0.107	22.603	7.497	67.971	7.778	0.900	69 15 54.547	Right
119	667534.428	3009657.217	30	15	13658.524	13673.524	13694.260	13709.260	13683.892	20	1.191	20.736	0.691	0.310	0.250	6.615	7.484	28.025	5.926	1.500	39 36 08.538	Left
120	667608.999	3009627.503	30	15	13728.063	13743.063	13770.555	13785.555	13756.809	20	1.416	27.492	0.916	0.310	0.250	9.906	7.484	33.442	5.926	1.500	52 30 22.738	Left
121	667742.620	3009853.701	200	0		13959.221	14067.695		14013.458	40	0.542	108.474	0.542	0.000	0.000	7.586	0.000	55.607	3.556	0.600	31 04 31.916	Right
122	667847.171	3009910.121	80	15	14109.889	14124.889	14136.607	14151.607	14130.748	30	0.334	11.718	0.146	0.120	0.094	1.250	7.498	21.003	5.000	0.900	08 23 34.016	Right
123	667921.176	3009922.131	150	15	14180.239	14195.239	14215.737	14230.737	14205.488	40	0.237	20.498	0.137	0.060	0.050	1.117	7.499	25.339	4.741	0.600	07 49 46.712	Left
124	668076.118	3009987.188	60	25	14337.104	14362.104	14382.225	14407.225	14372.165	35	0.752	20.121	0.335	0.430	0.208	4.969	12.482	36.339	9.074	1.200	19 12 51.022	Left
125	668108.023	3010058.390	40	15	14418.726	14433.726	14459.806	14474.806	14446.766	20	1.027	26.080	0.652	0.230	0.188	6.187	7.491	30.179	4.444	1.500	37 21 23.541	Right
126	668165.015	3010065.409	60	15	14482.172	14497.172	14506.526	14521.526	14501.849	30	0.406	9.354	0.156	0.160	0.125	1.421	7.496	19.876	6.667	1.200	08 55 55.694	Left
127	668241.968	3010110.337	0	0																		

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By: RK	TITLE:
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture with  Pvt. Ltd, in Association With  Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K	Horizontal Alignment Report Rhenock To Rongli Bazaar
					Checked By : AH	
					Approved By : VY	
					SCALE- NTS	DWG NO: XPL/DSD/SK/KM15.3/HAR/03
						HAR: 03 OF 03 DATE: Nov-2024

VERTICAL ALIGNMENT REPORT											
S.NO	VIP CHAINAGE	VIP LEVEL	CURVE START CHAINAGE	CURVE END CHAINAGE	Gradient Start Chainage	Gradient End Chainage	CURVE LENGTH	IN GRADE(%)	OUT GRADE (%)	CURVE TYPE	K Value
1	75.383	840.316	25.383	125.383	0.000	25.383	100	0.777	4.654	Sag	25.794
2	250.000	848.443	190.000	310.000	125.383	190.000	120	4.654	4.575	Hog	1513.444
3	430.000	856.678	390.000	470.000	310.000	390.000	80	4.575	5.348	Sag	103.506
4	674.815	869.770	614.815	734.815	470.000	614.815	120	5.348	2.552	Hog	42.917
5	877.092	874.932	817.092	937.092	734.815	817.092	120	2.500	3.777	Sag	97.902
6	1132.608	884.584	1072.608	1192.608	937.092	1072.608	120	3.777	5.444	Sag	71.991
7	1561.188	907.917	1501.188	1621.188	1192.608	1501.188	120	5.444	5.501	Sag	2124.43
8	1860	924.354	1800	1920	1621.188	1800	120	5.501	5.994	Sag	243.528
9	2406.086	957.053	2366.086	2446.086	1920	2133.045	80	5.994	5.817	Hog	483.333
10	2740.592	976.511	2680.592	2800.592	2133.045	2366.086	120	5.817	2.471	Hog	35.87
11	2897.732	980.395	2857.732	2937.732	2446.086	2680.592	80	2.471	5.967	Sag	22.886
12	3097.669	992.325	3037.669	3157.669	2800.592	2857.732	120	5.967	5.451	Hog	232.469
13	3445.206	1011.269	3385.206	3505.206	2937.732	3037.669	120	5.451	5.939	Sag	246.077
14	3666.186	1024.392	3596.186	3736.186	3157.669	3385.206	140	5.939	2.477	Hog	40.441
15	3832.509	1028.511	3762.509	3902.509	3505.206	3596.186	140	2.477	5.9	Sag	40.899
16	3999.418	1038.359	3959.418	4039.418	3736.186	3762.509	80	5.9	6.004	Sag	763.871
17	4366.997	1060.43	4266.997	4466.997	3902.509	3959.418	200	6	1.193	Hog	41.565
18	4707.574	1064.492	4617.574	4797.574	4039.418	4266.997	180	1.193	5.722	Sag	39.743
19	4952.37	1078.499	4892.37	5012.37	4466.997	4617.574	120	5.722	4.791	Hog	128.892
20	5110.976	1086.098	5050.976	5170.976	4797.574	4892.37	120	4.791	6.009	Sag	98.472
21	5296.327	1097.236	5256.327	5336.327	5012.37	5050.976	80	6	5.968	Hog	1930.081
22	5426.28	1104.992	5386.28	5466.28	5170.976	5256.327	80	5.968	2.566	Hog	23.512
23	5533.949	1107.754	5503.949	5563.949	5336.327	5386.28	60	2.5	5.965	Sag	17.648
24	5655.055	1114.978	5605.055	5705.055	5466.28	5503.949	100	5.965	5.743	Hog	449.827
25	5840.276	1125.616	5750.276	5930.276	5563.949	5605.055	180	5.743	5.983	Sag	749.731
26	6137.73	1143.413	6077.73	6197.73	5705.055	5750.276	120	5.983	5.122	Hog	139.426
27	6622.291	1168.235	6562.291	6682.291	5930.276	6077.73	120	5.122	4.82	Hog	396.596
28	6811.093	1177.335	6751.093	6871.093	6197.73	6562.291	120	4.82	5.183	Sag	330.221
29	7167.963	1195.832	7027.963	7307.963	6682.291	6751.093	280	5.183	-5.897	Hog	25.27
30	7526.137	1174.711	7466.137	7586.137	6871.093	7027.963	120	-5.897	-5.997	Hog	1198.756
31	7827.098	1156.663	7737.098	7917.098	7307.963	7466.137	180	-5.997	-2.923	Sag	58.551
32	8041.227	1150.404	7981.227	8101.227	7586.137	7737.098	120	-2.923	-4.556	Hog	73.495
33	8326.01	1137.431	8266.01	8386.01	7917.098	7981.227	120	-4.556	-5.893	Hog	89.716

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By : RK	TITLE: Vertical Alignment Report Rhenock To Rongli Bazaar	
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K		
					Checked By : AH		
					Approved By : VY		
					SCALE : NTS		
						VAR: 01 OF 02	Date: Dec-2024

VERTICAL ALIGNMENT REPORT											
S.NO	VIP CHAINAGE	VIP LEVEL	CURVE START CHAINAGE	CURVE END CHAINAGE	Gradient Start Chainage	Gradient End Chainage	CURVE LENGTH	IN GRADE(%)	OUT GRADE (%)	CURVE TYPE	K Value
34	8488.897	1127.832	8438.897	8538.897	8101.227	8266.01	100	-5.893	-5.979	Hog	1167.386
35	8638.012	1118.916	8588.012	8688.012	8386.01	8438.897	100	-5.979	-6.029	Hog	1998.438
36	8781.865	1110.244	8741.865	8821.865	8538.897	8588.012	80	-6	-6.039	Hog	7706.588
37	8952.486	1099.94	8892.486	9012.486	8688.012	8741.865	120	-6	-5.789	Sag	478.883
38	9261.919	1082.028	9201.919	9321.919	8821.865	8892.486	120	-5.789	-5.855	Hog	1807.336
39	9454.542	1070.75	9394.542	9514.542	9012.486	9201.919	120	-5.855	-5.947	Hog	1302.219
40	9695.744	1056.405	9645.744	9745.744	9321.919	9394.542	100	-5.947	-5.913	Sag	2929.903
41	9895.981	1044.565	9835.981	9955.981	9514.542	9645.744	120	-5.913	-5.981	Hog	1775.165
42	10280.263	1021.583	10220.263	10340.263	9745.744	9835.981	120	-5.981	-5.997	Hog	7282.647
43	10508.123	1007.918	10428.123	10588.123	9955.981	10220.263	160	-5.997	-5.845	Sag	1050.534
44	10693.984	997.055	10633.984	10753.984	10340.263	10428.123	120	-5.845	-5.952	Hog	1121.176
45	10843.926	988.131	10803.926	10883.926	10588.123	10633.984	80	-5.952	-5.69	Sag	305.31
46	10987.343	979.971	10937.343	11037.343	10753.984	10803.926	100	-5.69	-4.969	Sag	138.783
47	11184.469	970.175	11124.469	11244.469	10883.926	10937.343	120	-4.969	-3.994	Sag	122.988
48	11717.909	948.872	11632.909	11802.909	11037.343	11124.469	170	-3.994	-5.926	Hog	87.969
49	11905.72	937.742	11845.72	11965.72	11244.469	11632.909	120	-5.926	-5.762	Sag	731.237
50	12089.848	927.133	12049.848	12129.848	11802.909	11845.72	80	-5.762	-5.523	Sag	334.614
51	12310.532	914.945	12250.532	12370.532	11965.72	12049.848	120	-5.523	-5.624	Hog	1188.395
52	12459.35	906.576	12399.35	12519.35	12129.848	12250.532	120	-5.624	-6.028	Hog	296.674
53	12605.765	897.749	12545.765	12665.765	12370.532	12399.35	120	-6	-5.958	Sag	1717.346
54	12746.716	889.351	12686.716	12806.716	12519.35	12545.765	120	-5.958	-5.812	Sag	821.806
55	12918.382	879.373	12858.382	12978.382	12665.765	12686.716	120	-5.812	-5.904	Hog	1314.027
56	13088.429	869.334	13028.429	13148.429	12806.716	12858.382	120	-5.904	-4.616	Sag	93.217
57	13218.376	863.335	13178.376	13258.376	12978.382	13028.429	80	-4.616	-5.147	Hog	150.904
58	13324.469	857.875	13274.469	13374.469	13148.429	13178.376	100	-5.147	-6.026	Hog	113.759
59	13446.495	850.522	13406.495	13486.495	13258.376	13274.469	80	-6	-5.988	Sag	2125.721
60	13588.818	842	13528.818	13648.818	13374.469	13406.495	120	-5.988	0	Sag	20.04
61	13814.621	842	13754.621	13874.621	13486.495	13528.818	120	0	-6.874	Hog	17.456
62	14020.274	827.863	13960.274	14080.274	13648.818	13754.621	120	-6	-5.93	Sag	127.036
63	14225.521	815.692	14165.521	14285.521	13874.621	13960.274	120	-5.93	-4.215	Sag	69.969
64	14444.444	806.465	14384.444	14504.444	14080.274	14165.521	120	-4.215	0	Sag	28.472

REV. No.	DESCRIPTION	CLIENT:	DESIGN CONSULTANT:	PROJECT :	Design By : RK	TITLE:
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : M.K	Vertical Alignment Report Rhenock To Rongli Bazaar
					Checked By : AH	
					Approved By : VY	
					SCALE : NTS	
						DWG NO: XPL/DSD/SK/KM15.3/VAR/02
						VAR: 02 OF 02
						Date: Dec-2024

TYPICAL CROSS SECTION

RHENOCK TO RONGLI TCS SCHEDULE					
S.No.	Chainage		Length(m)	Type of TCS	Description
	From	To			
1	0+000	0+130	130	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
2	0+130	0+340	210	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
3	0+340	0+360	20	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
4	0+360	0+400	40	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
5	0+400	0+420	20	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
6	0+420	0+560	140	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
7	0+560	0+600	40	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
8	0+600	0+640	40	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
9	0+640	0+700	60	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
10	0+700	0+720	20	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
11	0+720	0+740	20	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
12	0+740	0+780	40	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
13	0+780	1+020	240	TCS-4B	Typical Cross Section -4B, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) New Construction And Valley Side Slope (RHS)

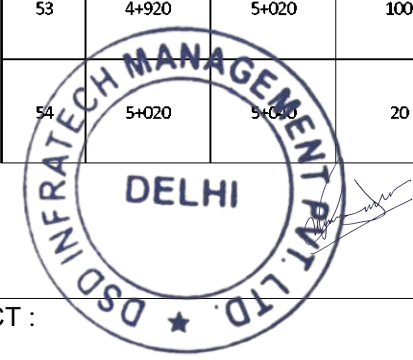
RHENOCK TO RONGLI TCS SCHEDULE					
S.No.	Chainage		Length(m)	Type of TCS	Description
	From	To			
14	1+020	1+080	60	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
15	1+080	1+120	40	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
16	1+120	1+140	20	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
17	1+140	1+180	40	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
18	1+180	1+200	20	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
19	1+200	1+520	320	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
20	1+520	1+580	60	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
21	1+580	1+600	20	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
22	1+600	1+680	80	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
23	1+680	1+740	60	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
24	1+740	1+780	40	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
25	1+780	1+920	140	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
26	1+920	1+940	20	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)



REV. NO	DES FOR REV.	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY: RK	TITLE: TCS Schedule Rhenock To Rongli Bazaar, Sikkim (SKM)	
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR and Providing Services For Pre-Construction Activities in Respect of "Widening and Up-Gradation of Existing Carriageway into 2L+PS Configuration from Reshi (km 96.254) to Rhenock (km 101.554) along NH-717A & from Rhenock (km 0.00) to Rongli Bazaar (km 15.300) along NH-717B in the states of Sikkim ".	DRN BY: MK		
					CHK BY: AH		
					APR BY: VY	DWG NO: XPL/DSD/SK/KM15.3/TCS/01	
					SCALE: NTS	SHEET: 01 OF 07	DATE: NOV-2024

RHENOCK TO RONGLI TCS SCHEDULE					
S.No.	Chainage		Length(m)	Type of TCS	Description
	From	To			
27	1+940	2+140	200	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
28	2+140	2+210	70	TCS-2	Typical Cross Section -2 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
29	2+210	2+270	60	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
30	2+270	2+340	70	TCS-2	Typical Cross Section -2 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
31	2+340	2+360	20	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
32	2+360	2+380	20	TCS-2	Typical Cross Section -2 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
33	2+380	2+480	100	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
34	2+480	2+520	40	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
35	2+520	2+560	40	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
36	2+560	2+660	100	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
37	2+660	2+760	100	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
38	2+760	2+780	20	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
39	2+780	3+180	400	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
40	3+180	3+220	40	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)

RHENOCK TO RONGLI TCS SCHEDULE					
S.No.	Chainage		Length(m)	Type of TCS	Description
	From	To			
41	3+220	3+260	40	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
42	3+260	3+280	20	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
43	3+280	3+460	180	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
44	3+460	3+520	60	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
45	3+520	3+580	60	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
46	3+580	3+660	80	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
47	3+660	3+700	40	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
48	3+700	3+950	250	TCS-4B	Typical Cross Section -4B, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) New Construction And Valley Side Slope (RHS)
49	3+950	4+520	570	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
50	4+520	4+560	40	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
51	4+560	4+880	320	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
52	4+880	4+920	40	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
53	4+920	5+020	100	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
54	5+020	5+060	20	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)



REV. NO	DES FOR REV.	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY: RK	TITLE: TCS Schedule Rhenock To Rongli Bazaar, Sikkim (SKM)	
		National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Xplorer In JV with  In Association with  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR and Providing Services For Pre-Construction Activities in Respect of "Widening and Up-Gradation of Existing Carriageway into 2L+PS Configuration from Reshi (km 96.254) to Rhenock (km 101.554) along NH-717A & from Rhenock (km 0.00) to Rongli Bazaar (km 15.300) along NH-717B in the states of Sikkim ".	DRN BY: MK		
					CHK BY: AH		
					APR BY: VY	DWG NO: XPL/DSD/SK/KM15.3/TCS/02	
					SCALE: NTS	SHEET: 02 OF 07	DATE: NOV-2024

RHENOCK TO RONGLI TCS SCHEDULE					
S.No.	Chainage		Length(m)	Type of TCS	Description
	From	To			
55	5+040	5+100	60	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
56	5+100	5+140	40	TCS-3	Typical Cross Section -3, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Retaining Wall (RHS)
57	5+140	5+170	30	TCS-1	Typical Cross Section -1, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Slope (RHS)
58	5+170	5+270	100	TCS-2B	Typical Cross Section -2B, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS), Realignment
59	5+270	5+440	170	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
60	5+440	5+470	30	TCS-2	Typical Cross Section -2 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Slope (LHS) And Valley Side Retaining Wall (RHS)
61	5+470	5+570	100	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
62	5+570	5+620	50	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
63	5+620	5+640	20	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
64	5+640	5+660	20	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
65	5+660	6+200	540	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
66	6+200	6+220	20	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)

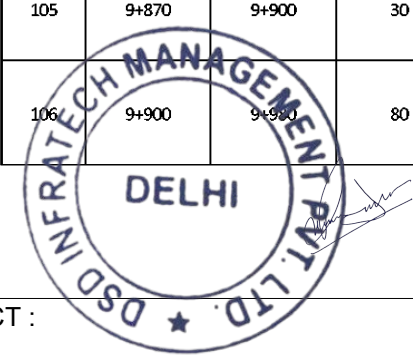
RHENOCK TO RONGLI TCS SCHEDULE					
S.No.	Chainage		Length(m)	Type of TCS	Description
	From	To			
67	6+220	6+440	220	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
68	6+440	6+550	110	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
69	6+550	6+750	200	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
70	6+750	6+790	40	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
71	6+790	6+820	30	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
72	6+820	7+120	300	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
73	7+120	7+140	20	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
74	7+140	7+560	420	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
75	7+560	7+670	110	VIADUCT	New Construction (To Avoid Sinking Zone)
76	7+670	7+900	230	TCS-5	Typical Cross Section -5, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
77	7+900	8+000	100	TCS-4	Typical Cross Section -4, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Hill Side Breast Wall (LHS) And Valley Side Slope (RHS)
78	8+000	8+070	70	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)



REV. NO	DES FOR REV.	CLIENT: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT: Xplorer In JV with DSD In Association with Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR and Providing Services For Pre-Construction Activities in Respect of "Widening and Up-Gradation of Existing Carriageway into 2L+PS Configuration from Reshi (km 96.254) to Rhenock (km 101.554) along NH-717A & from Rhenock (km 0.00) to Rongli Bazaar (km 15.300) along NH-717B in the states of Sikkim "	DGN BY: RK	TITLE: TCS Schedule Rhenock To Rongli Bazaar, Sikkim (SKM)	
					DRN BY: MK		
					CHK BY: AH		
					APR BY: VY	DWG NO: XPL/DSD/SK/KM15.3/TCS/03	
					SCALE: NTS	SHEET: 03 OF 07	DATE: NOV-2024

RHENOCK TO RONGLI TCS SCHEDULE					
S.No.	Chainage		Length(m)	Type of TCS	Description
	From	To			
79	8+070	8+100	30	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
80	8+100	8+200	100	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
81	8+200	8+280	80	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
82	8+280	8+300	20	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
83	8+300	8+360	60	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
84	8+360	8+480	120	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
85	8+480	8+500	20	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
86	8+500	8+520	20	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
87	8+520	8+700	180	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
88	8+700	8+790	90	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
89	8+790	8+850	60	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
90	8+850	8+930	80	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
91	8+930	8+980	50	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
92	8+980	9+080	100	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)

RHENOCK TO RONGLI TCS SCHEDULE					
S.No.	Chainage		Length(m)	Type of TCS	Description
	From	To			
93	9+080	9+140	60	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
94	9+140	9+170	30	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
95	9+170	9+270	100	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
96	9+270	9+310	40	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
97	9+310	9+340	30	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
98	9+340	9+560	220	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
99	9+560	9+660	100	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
100	9+660	9+700	40	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
101	9+700	9+760	60	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
102	9+760	9+800	40	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
103	9+800	9+820	20	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
104	9+820	9+870	50	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
105	9+870	9+900	30	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
106	9+900	9+980	80	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)



REV. NO	DES FOR REV.	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR and Providing Services For Pre-Construction Activities in Respect of "Widening and Up-Gradation of Existing Carriageway into 2L+PS Configuration from Reshi (km 96.254) to Rhenock (km 101.554) along NH-717A & from Rhenock (km 0.00) to Rongli Bazaar (km 15.300) along NH-717B in the states of Sikkim ".	DGN BY: RK	TITLE: TCS Schedule Rhenock To Rongli Bazaar, Sikkim (SKM)	
					DRN BY: MK		
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					SCALE: NTS	SHEET: 04 OF 07	DATE: NOV-2024

RHENOCK TO RONGLI TCS SCHEDULE					
S.No.	Chainage		Length(m)	Type of TCS	Description
	From	To			
107	9+980	10+050	70	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
108	10+050	10+080	30	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
109	10+080	10+120	40	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
110	10+120	10+300	180	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
111	10+300	10+370	70	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
112	10+370	10+510	140	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
113	10+510	10+640	130	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
114	10+640	10+710	70	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
115	10+710	10+760	50	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
116	10+760	10+780	20	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
117	10+780	10+980	200	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
118	10+980	11+030	50	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
119	11+030	11+100	70	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
120	11+100	11+150	50	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)

RHENOCK TO RONGLI TCS SCHEDULE					
S.No.	Chainage		Length(m)	Type of TCS	Description
	From	To			
121	11+150	11+200	50	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
122	11+200	11+750	550	TUNNEL	New Construction (To Avoid Existing Narrow Zone)
123	11+750	11+920	170	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
124	11+920	12+040	120	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
125	12+040	12+070	30	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
126	12+070	12+120	50	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
127	12+120	12+170	50	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
128	12+170	12+420	250	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
129	12+420	12+480	60	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
130	12+480	12+500	20	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
131	12+500	12+560	60	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
132	12+560	12+580	20	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
133	12+580	12+640	60	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
134	12+640	12+660	20	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)



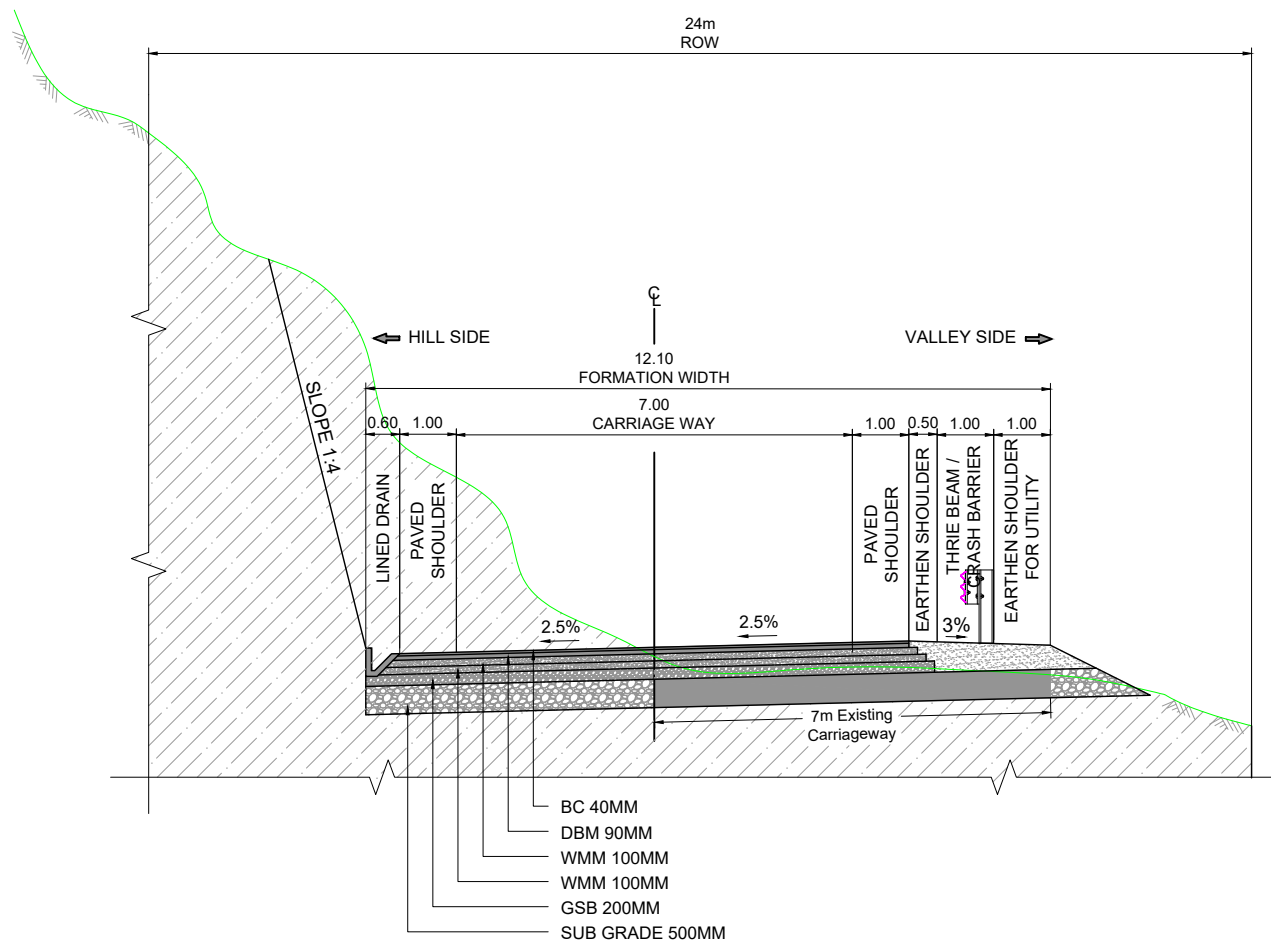
REV. NO	DES FOR REV.	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY: RK	TITLE:	
		National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction	Consultancy Services For Preparation Of DPR and Providing Services For Pre-Construction Activities in Respect of "Widening and Up-Gradation of Existing Carriageway into 2L+PS Configuration from Reshi (km 96.254) to Rhenock (km 101.554) along NH-717A & from Rhenock (km 0.00) to Rongli Bazaar (km 15.300) along NH-717B in the states of Sikkim ".	DRN BY: MK	TCS Schedule Rhenock To Rongli Bazaar, Sikkim (SKM)	
					CHK BY: AH		
		1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301		APR BY: VY	DWG NO: XPL/DSD/SK/KM15.3/TCS/05	
					SCALE: NTS	SHEET: 05 OF 07	DATE: NOV-2024

RHENOCK TO RONGLI TCS SCHEDULE					
S.No.	Chainage		Length(m)	Type of TCS	Description
	From	To			
135	12+660	12+720	60	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
136	12+720	12+740	20	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
137	12+740	12+780	40	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
138	12+780	12+940	160	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
139	12+940	13+000	60	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
140	13+000	13+040	40	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
141	13+040	13+100	60	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
142	13+100	13+120	20	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
143	13+120	13+240	120	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
144	13+240	13+340	100	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
145	13+340	13+400	60	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
146	13+400	13+450	50	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
147	13+450	13+480	30	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
148	13+480	13+600	120	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)

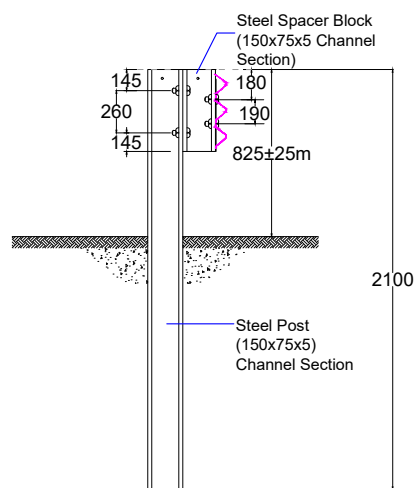
RHENOCK TO RONGLI TCS SCHEDULE					
S.No.	Chainage		Length(m)	Type of TCS	Description
	From	To			
149	13+600	13+670	70	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
150	13+670	13+690	20	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
151	13+690	13+740	50	MNB	New Construction (Existing Bally Bridge Replacement)
152	13+740	13+750	10	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
153	13+750	13+800	50	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
154	13+800	13+940	140	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
155	13+940	14+040	100	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
156	14+040	14+130	90	TCS-2A	Typical Cross Section -2A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Slope (RHS)
157	14+130	14+200	70	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
158	14+200	14+280	80	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
159	14+280	14+320	40	TCS-3A	Typical Cross Section -3A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Retaining Wall (LHS) And Hill Side Breast Wall (RHS)
160	14+320	14+500	180	TCS-4A	Typical Cross Section - 4A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Breast Wall (RHS)
161	14+500	14+514	14	TCS-1A	Typical Cross Section -1A, 2 Lane Highway (Open Country Mountainous/Steep Terrain) Valley Side Slope (LHS) And Hill Side Slope (RHS)
162	14+514	14+589	0+075	MIB	Repair and Rehabilitation (R&R)



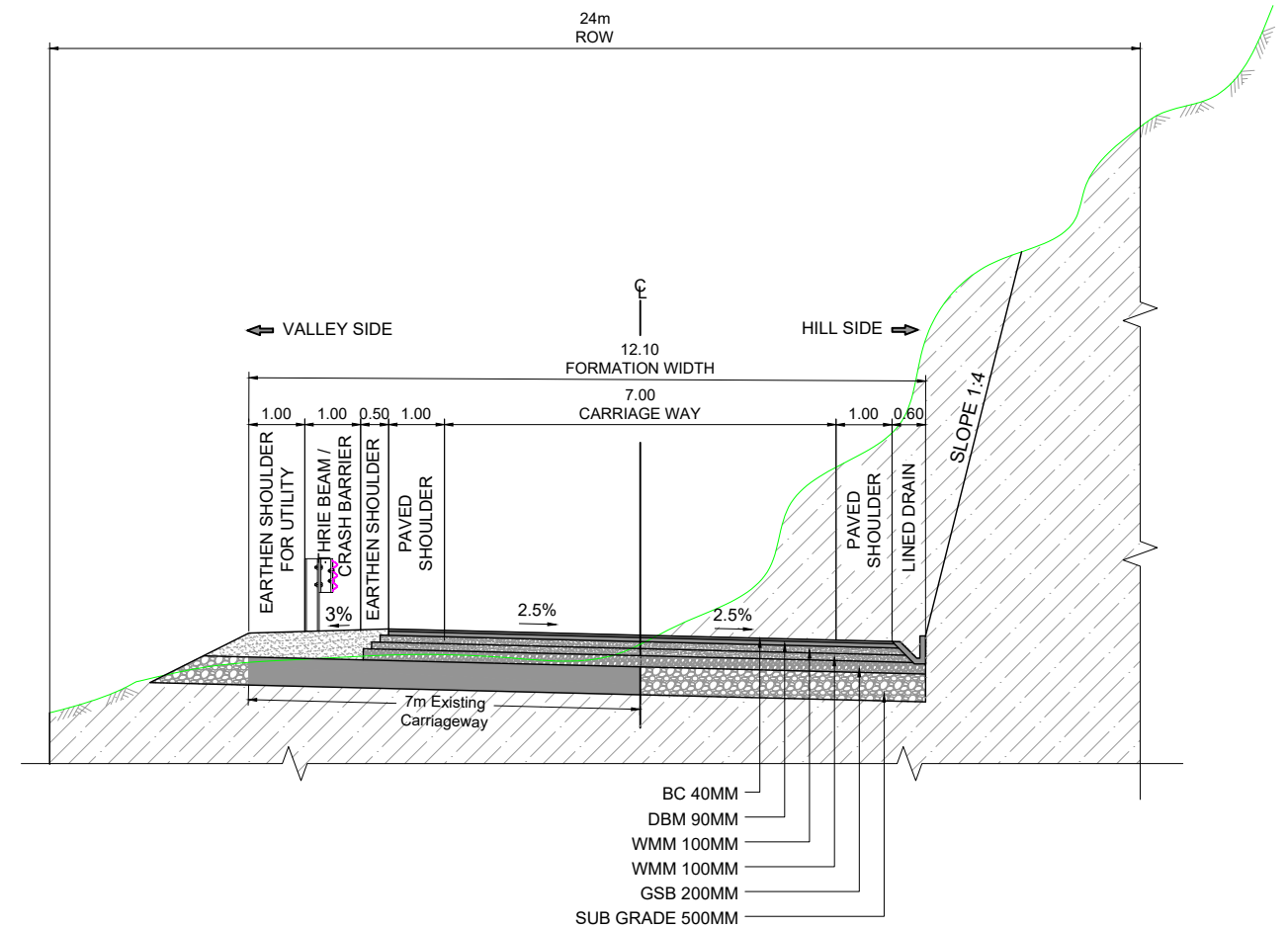
REV. NO	DES FOR REV.	CLIENT:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	DESIGN CONSULTANT:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	PROJECT : Consultancy Services For Preparation Of DPR and Providing Services For Pre-Construction Activities in Respect of "Widening and Up-Gradation of Existing Carriageway into 2L+PS Configuration from Reshi (km 96.254) to Rhenock (km 101.554) along NH-717A & from Rhenock (km 0.00) to Rongli Bazaar (km 15.300) along NH-717B in the states of Sikkim ".	DGN BY: RK	TITLE: TCS Schedule Rhenock To Rongli Bazaar, Sikkim (SKM)	
					DRN BY: MK		
					CHK BY: AH		
					APR BY: VY		
					SCALE: NTS	SHEET: 06 OF 07	DATE: NOV-2024



TYPICAL CROSS SECTION-1
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) HILL SIDE SLOPE(LHS)
AND VALLEY SIDE SLOPE(RHS)



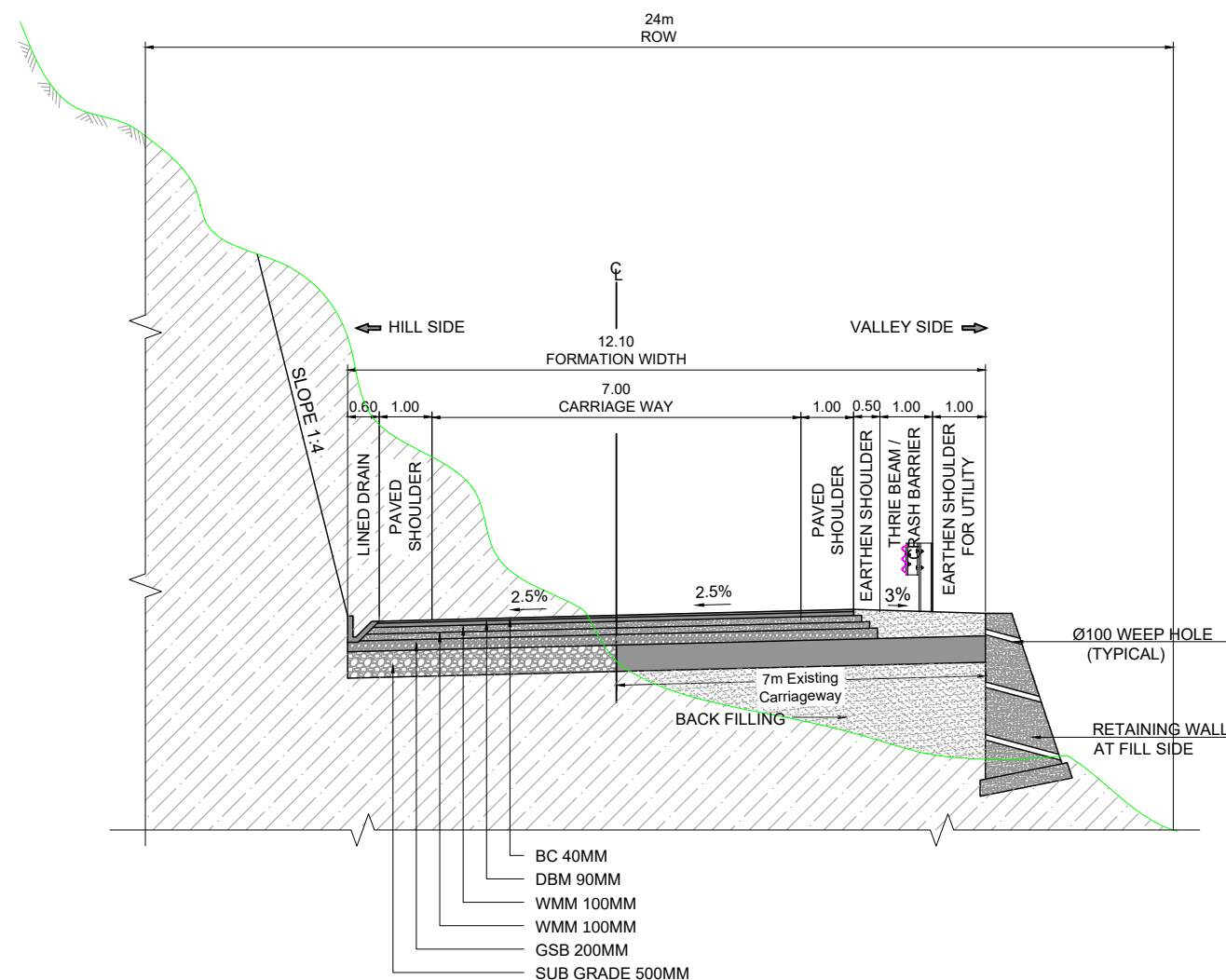
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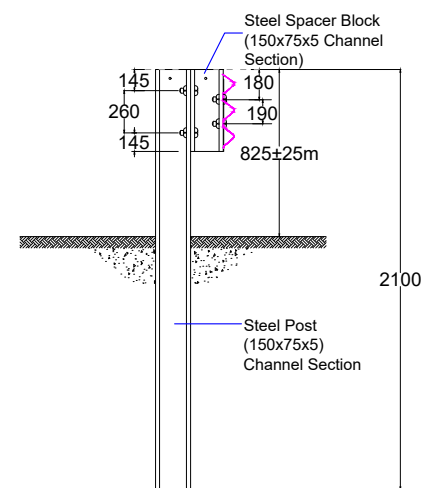
TYPICAL CROSS SECTION-1A
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) VALLEY SIDE SLOPE(LHS)
AND HILL SIDE SLOPE(RHS)



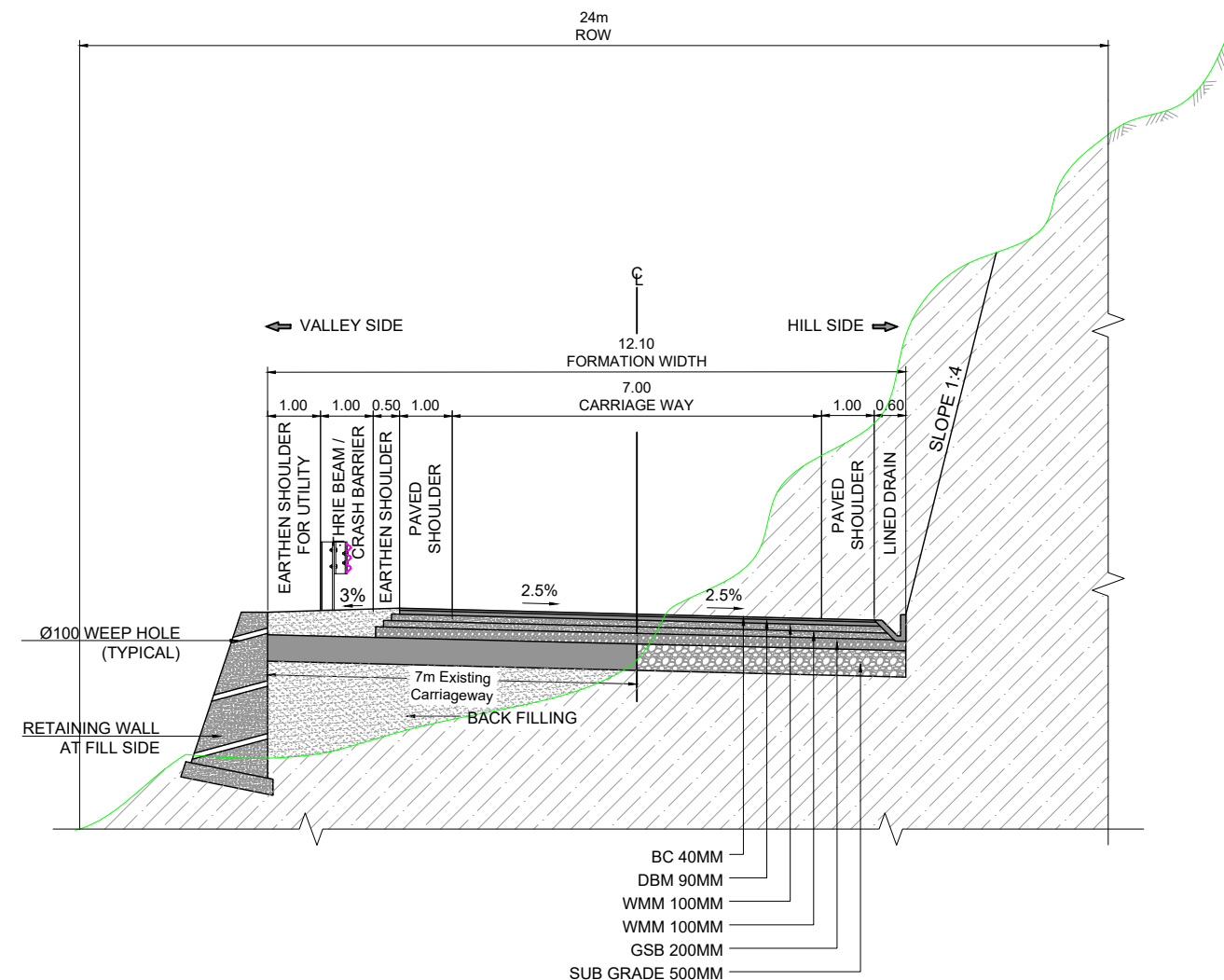
REV. NO	DES FOR REV.	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY: RK	TITLE:
		National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction	Consultancy Services For Preparation Of DPR and Providing Services For Pre-Construction Activities in Respect of "Widening and Up-Gradation of Existing Carriageway into 2L+PS Configuration from Reshi (km 96.254) to Rhenock (km 101.554) along NH-717A & from Rhenock (km 0.00) to Rongli Bazaar (km 15.300) along NH-717B in the states of Sikkim ".	DRN BY: MK	Typical Cross Section (TCS) Rhenock To Rongli Bazaar, Sikkim (SKM)
		1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301		CHK BY: AH	
					APR BY: VY	DWG NO: XPL/DSD/SK/KM15.3/TCS/01
					SCALE: NTS	SHEET: 01 OF 07 DATE: NOV-2024



TYPICAL CROSS SECTION-2
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) HILL SIDE SLOPE(LHS)
AND VALLEY SIDE RETAINING WALL(RHS)



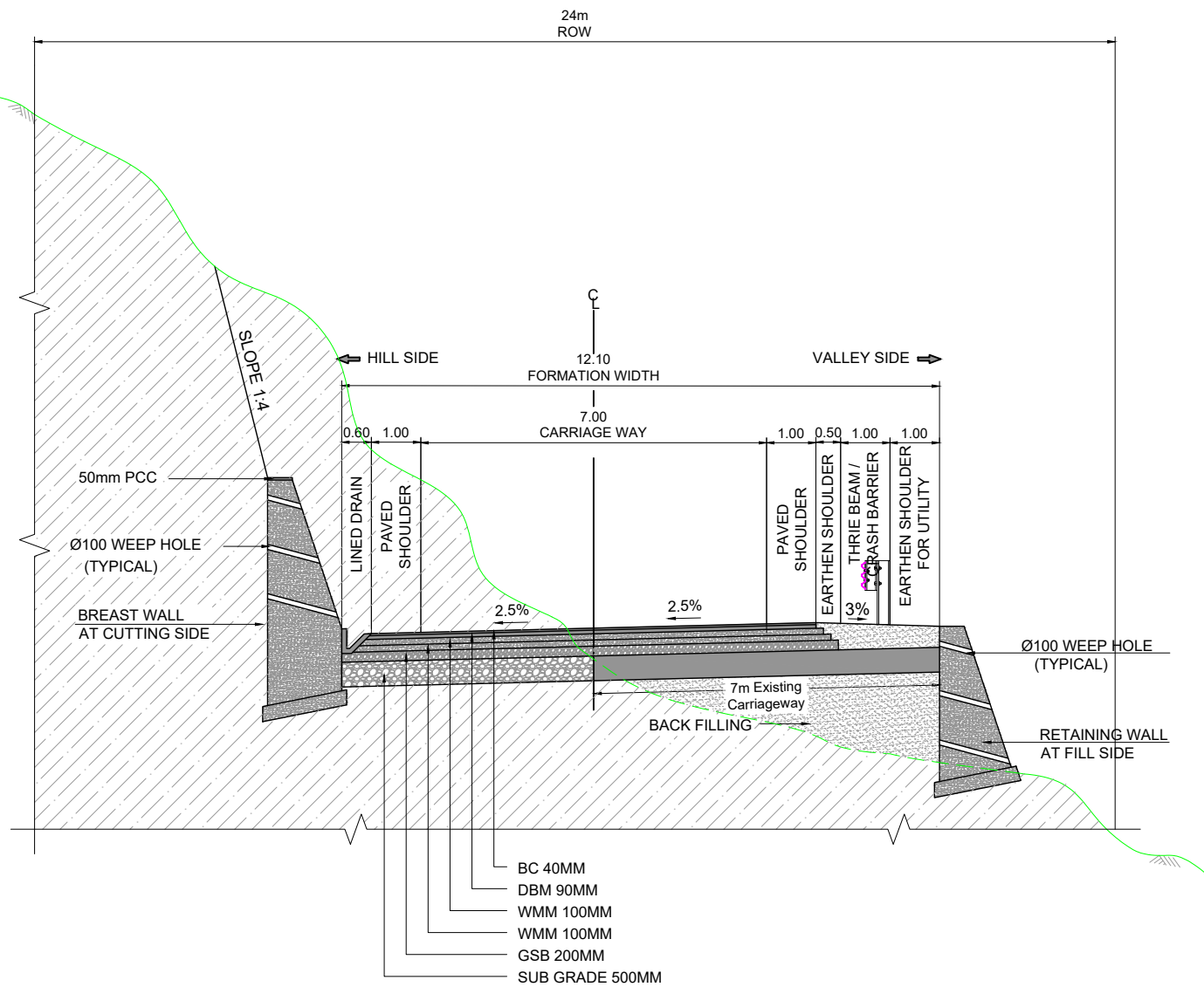
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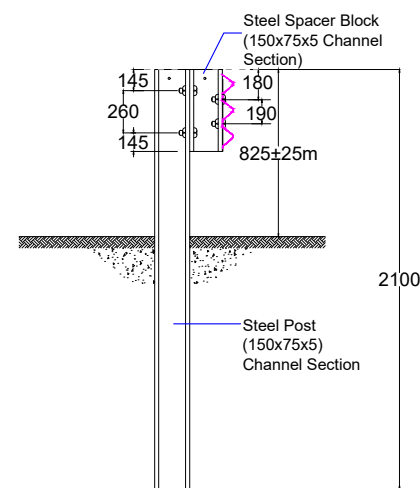
TYPICAL CROSS SECTION-2A
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) VALLEY SIDE RETAINING WALL(LHS)
AND HILL SIDE SLOPE(RHS)



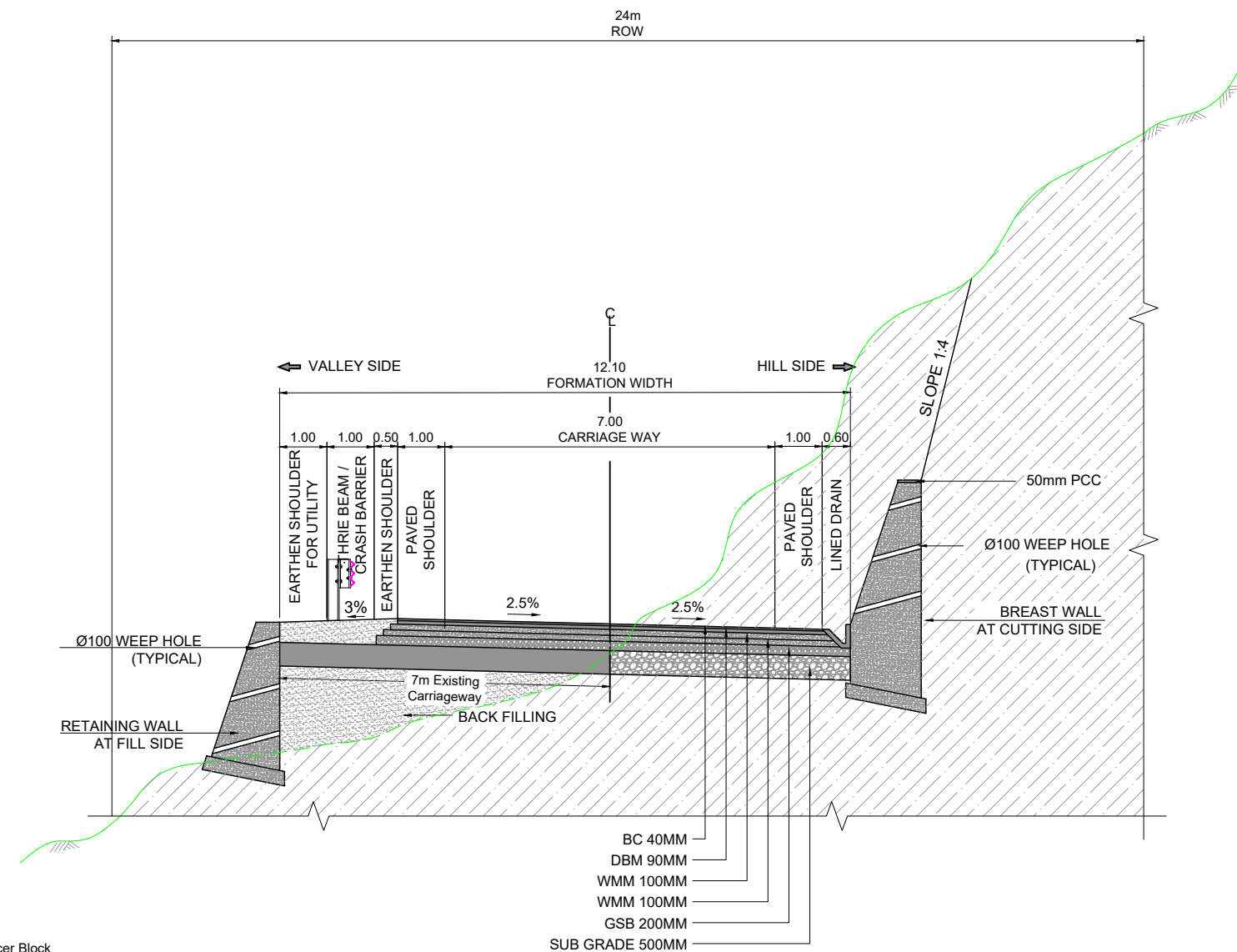
REV. NO	DES FOR REV.	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY: RK	TITLE:
		National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction	Consultancy Services For Preparation Of DPR and Providing Services For Pre-Construction Activities in Respect of "Widening and Up-Gratation of Existing Carriageway into 2L+PS Configuration from Reshi (km 96.254) to Rhenock (km 101.554) along NH-717A & from Rhenock (km 0.00) to Rongli Bazaar (km 15.300) along NH-717B in the states of Sikkim ".	DRN BY: MK	Typical Cross Section (TCS) Rhenock To Rongli Bazaar, Sikkim (SKM)
		1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301		CHK BY: AH	
					APR BY: VY	DWG NO: XPL/DSD/SK/KM15.3/TCS/02
					SCALE: NTS	SHEET: 02 OF 07 DATE: NOV-2024



TYPICAL CROSS SECTION-3
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) HILL SIDE BREAST WALL(LHS)
AND VALLEY SIDE RETAINING WALL(RHS)



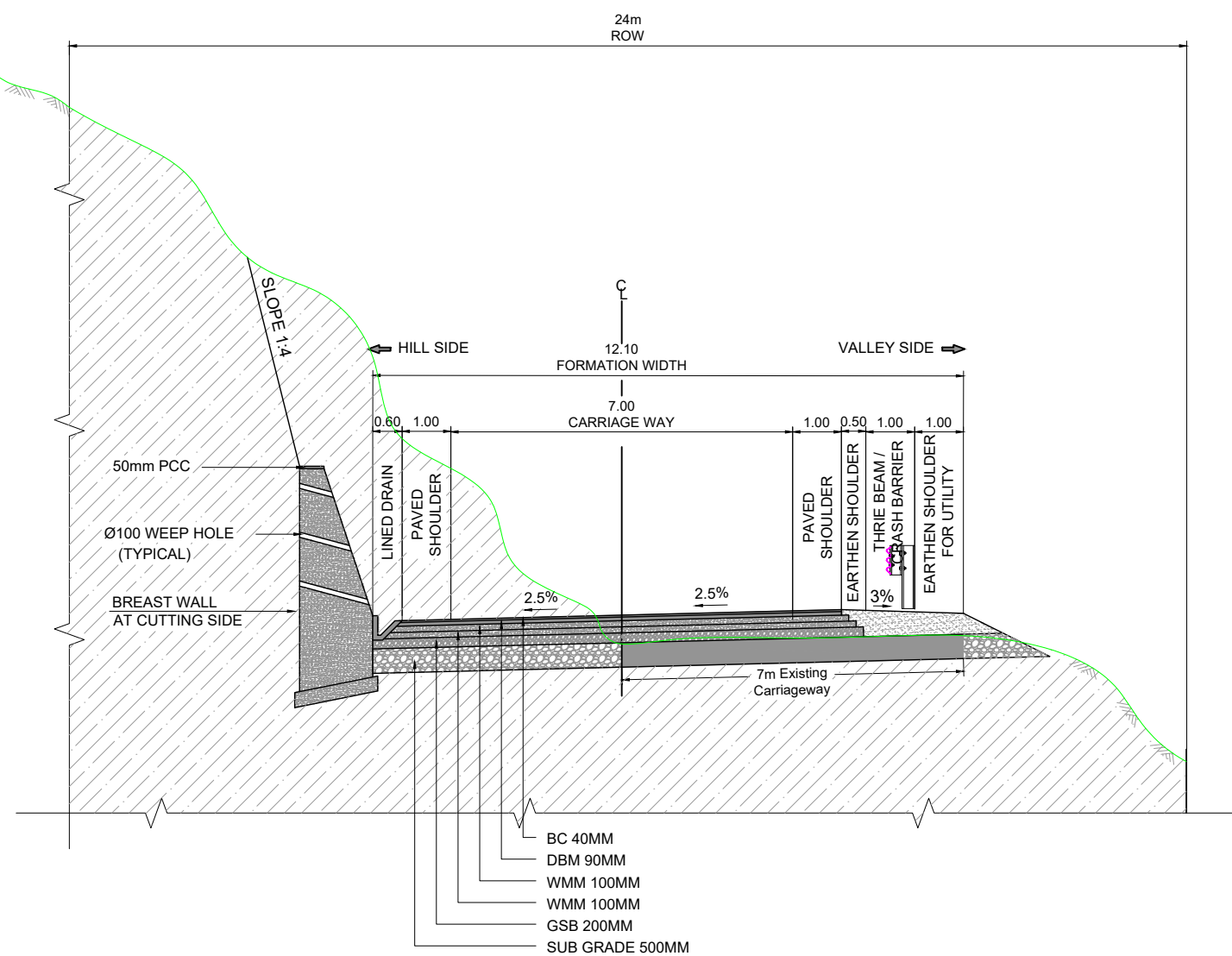
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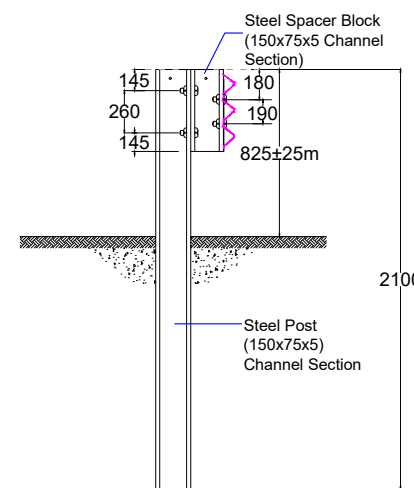
TYPICAL CROSS SECTION-3A
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) VALLEY SIDE RETAINING WALL(LHS)
AND HILL SIDE BREAST WALL(RHS)



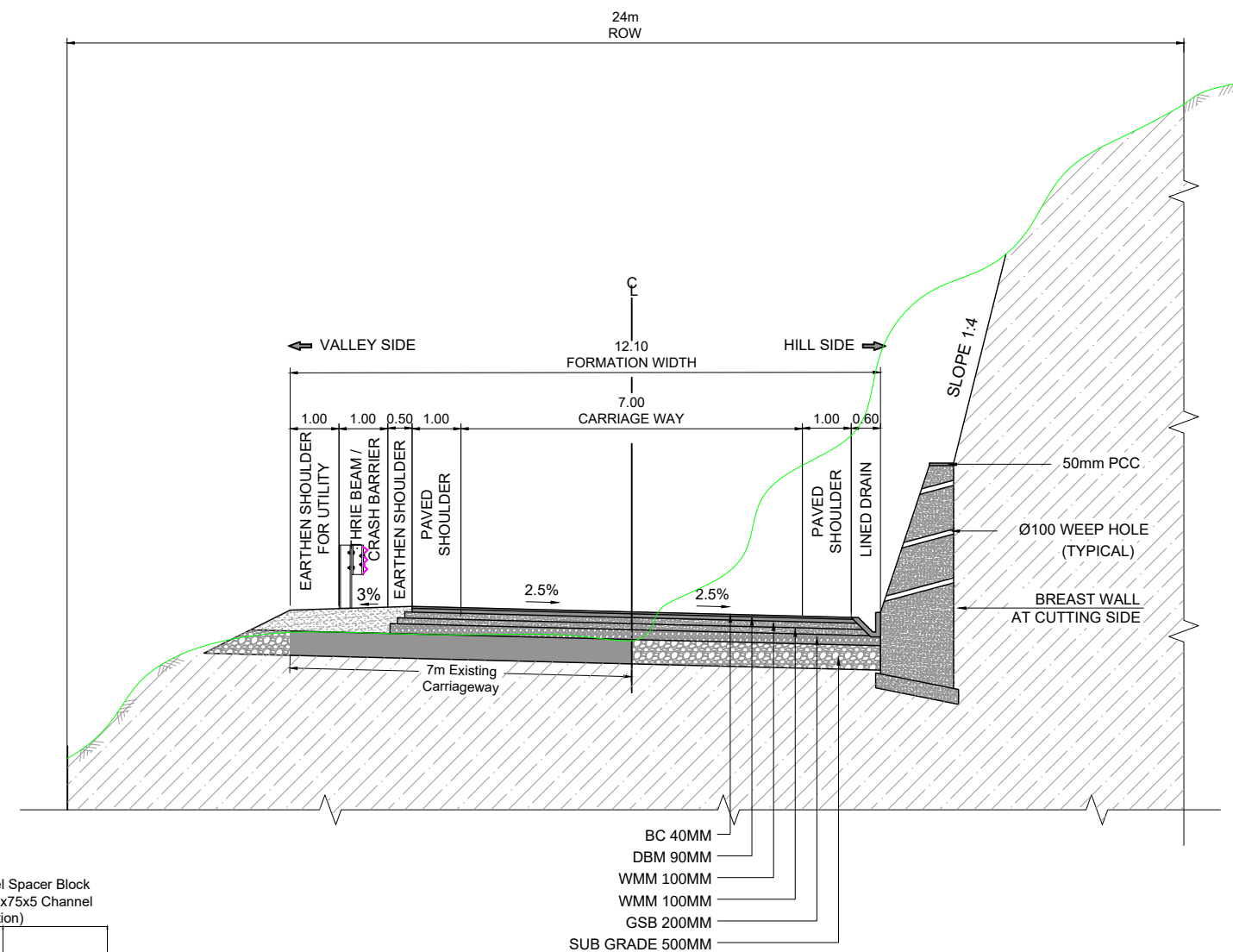
REV. NO	DES FOR REV.	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY: RK	TITLE:
		National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction	Consultancy Services For Preparation Of DPR and Providing Services For Pre-Construction Activities in Respect of "Widening and Up-Gradation of Existing Carriageway into 2L+PS Configuration from Reshi (km 96.254) to Rhenock (km 101.554) along NH-717A & from Rhenock (km 0.00) to Rongli Bazaar (km 15.300) along NH-717B in the states of Sikkim ".	DRN BY: MK	Typical Cross Section (TCS) Rhenock To Rongli Bazaar, Sikkim (SKM)
		1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301		CHK BY: AH	
					APR BY: VY	DWG NO: XPL/DSD/SK/KM15.3/TCS/04
					SCALE: NTS	SHEET: 04 OF 07 DATE: NOV-2024



TYPICAL CROSS SECTION-4
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) HILL SIDE BREAST WALL(LHS)
AND VALLEY SIDE SLOPE(RHS)



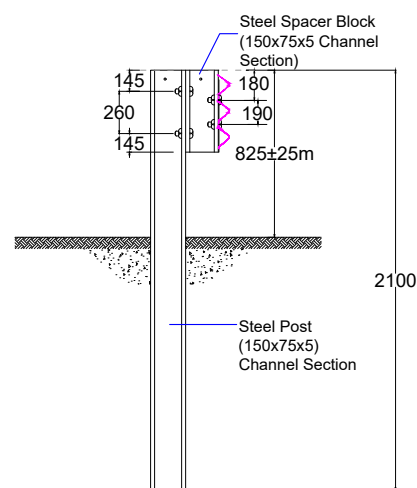
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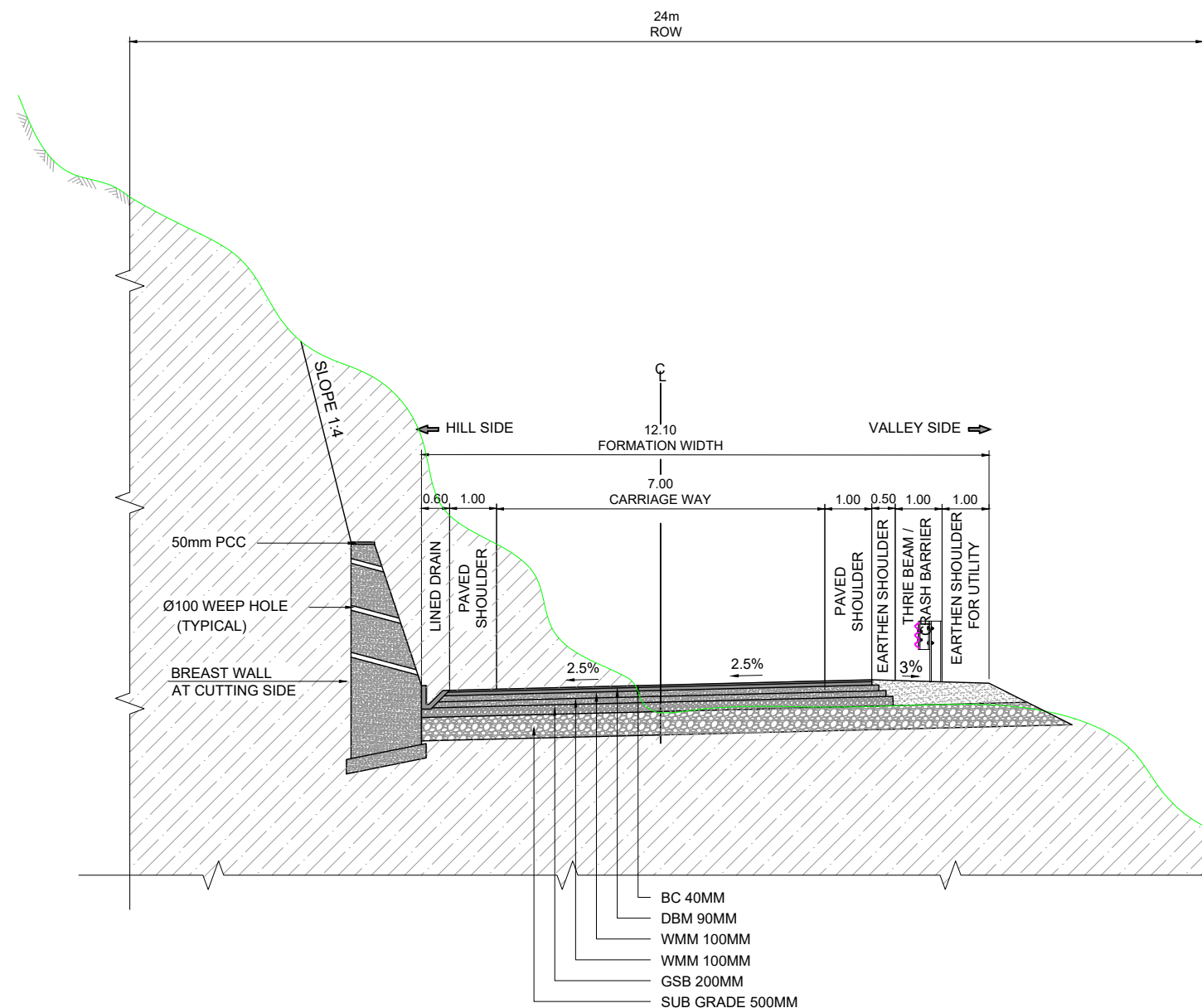
TYPICAL CROSS SECTION-4A
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) VALLEY SIDE SLOPE(LHS)
AND HILL SIDE BREAST WALL(RHS)



REV. NO	DES FOR REV.	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY: RK	TITLE:
		National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction	Consultancy Services For Preparation Of DPR and Providing Services For Pre-Construction Activities in Respect of "Widening and Up-Gradation of Existing Carriageway into 2L+PS Configuration from Reshi (km 96.254) to Rhenock (km 101.554) along NH-717A & from Rhenock (km 0.00) to Rongli Bazaar (km 15.300) along NH-717B in the states of Sikkim "	DRN BY: MK	Typical Cross Section (TCS) Rhenock To Rongli Bazaar, Sikkim (SKM)
		1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301		CHK BY: AH	
					APR BY: VY	DWG NO: XPL/DSD/SK/KM15.3/TCS/05
					SCALE: NTS	SHEET: 05 OF 07 DATE: NOV-2024



THRIE BEAM/
CRASH BARRIER



TYPICAL CROSS SECTION-4B
2 LANE HIGHWAY (OPEN COUNTRY MOUNTAINOUS/
STEEP TERRAIN) HILL SIDE BREAST WALL(LHS)
AND VALLEY SIDE SLOPE(RHS)

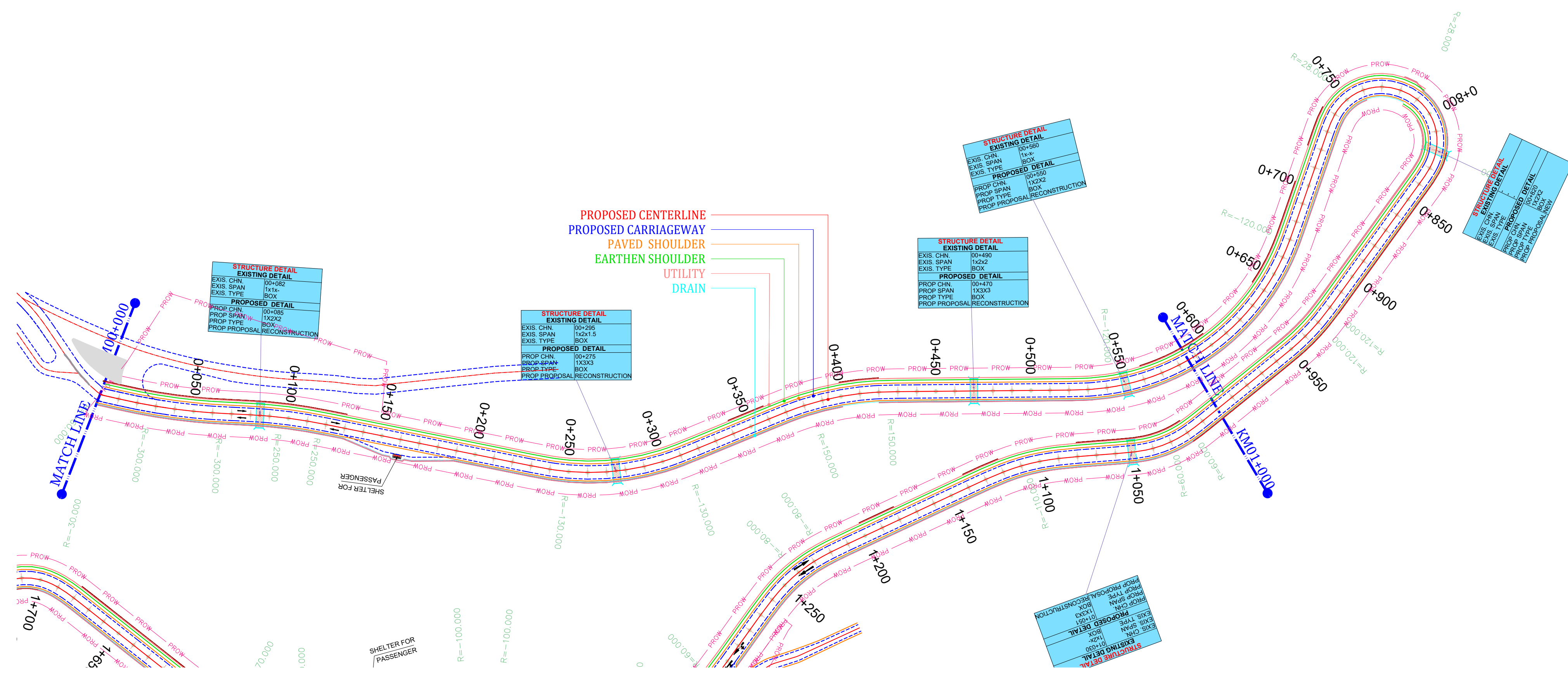
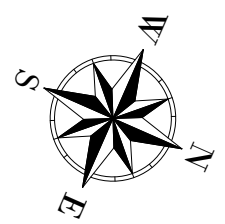


REV. NO	DES FOR REV.	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY: RK	TITLE:
		National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction	Consultancy Services For Preparation Of DPR and Providing Services For Pre-Construction Activities in Respect of "Widening and Up-Gradation of Existing Carriageway into 2L+PS Configuration from Reshi (km 96.254) to Rhenock (km 101.554) along NH-717A & from Rhenock (km 0.00) to Rongli Bazaar (km 15.300) along NH-717B in the states of Sikkim ".	DRN BY: MK	Typical Cross Section (TCS) Rhenock To Rongli Bazaar, Sikkim (SKM)
		1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301		CHK BY: AH	DWG NO: XPL/DSD/SK/KM15.3/TCS/06
					APR BY: VY	SHEET: 06 OF 07
					SCALE: NTS	DATE: NOV-2024

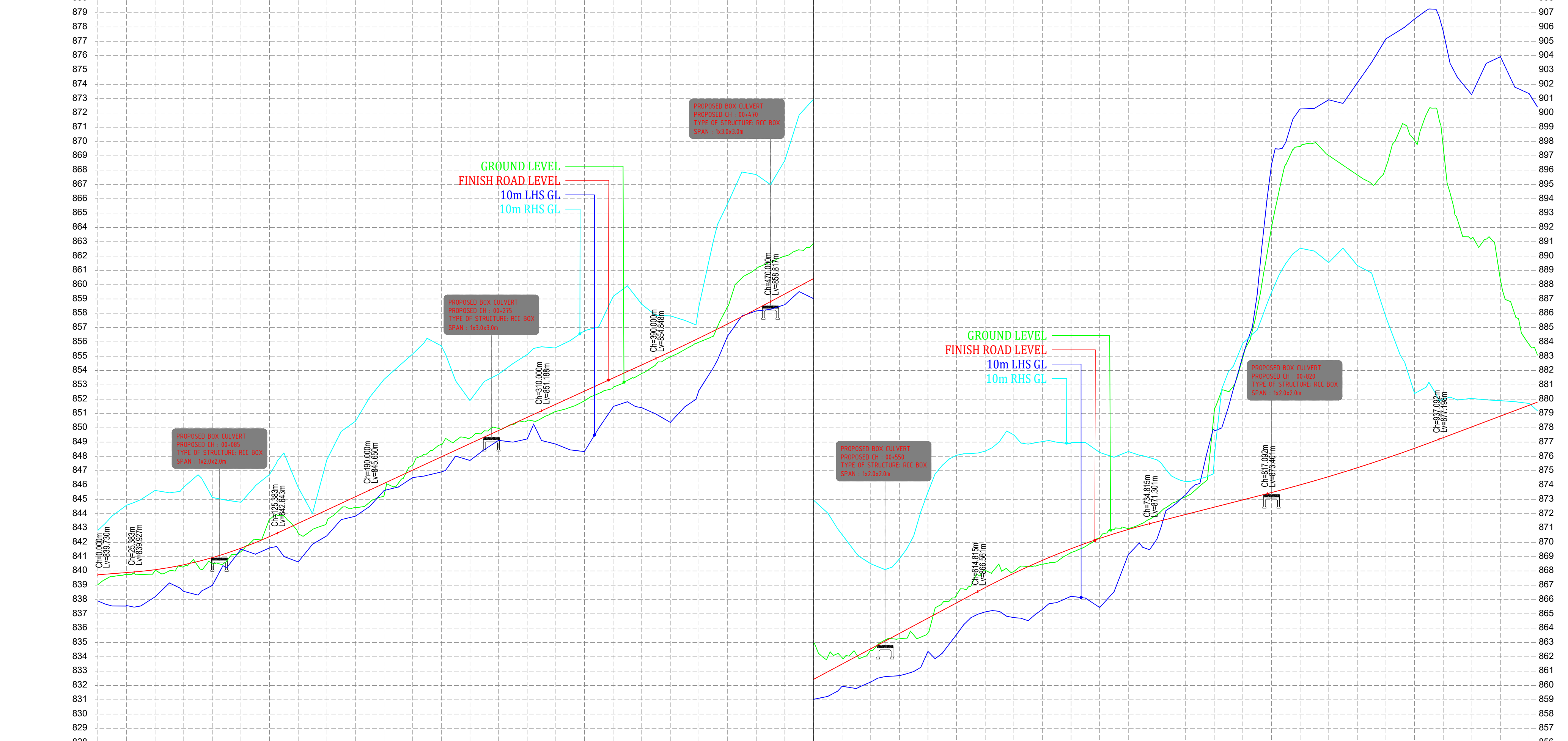


REV. NO.	DES FOR REV.	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY: RK	TITLE:				
		 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	 Consultancy Services For Preparation Of DPR and Providing Services For Pre-Construction Activities in Respect of "Widening and Up-Gradation of Existing Carriageway into 2L+PS Configuration from Reshi (km 96.254) to Rhenock (km 101.554) along NH-717A & from Rhenock (km 0.00) to Rongli Bazaar (km 15.300) along NH-717B in the states of Sikkim ".	DRN BY: MK	Typical Cross Section (TCS) Rhenock To Rongli Bazaar, Sikkim (SKM)				
					CHK BY: AH					
					APR BY: VY			DWG NO: XPL/DSD/SK/KM15.3/TCS/07		
								SCALE: NTS	SHEET: 07 OF 07	DATE: NOV-2024

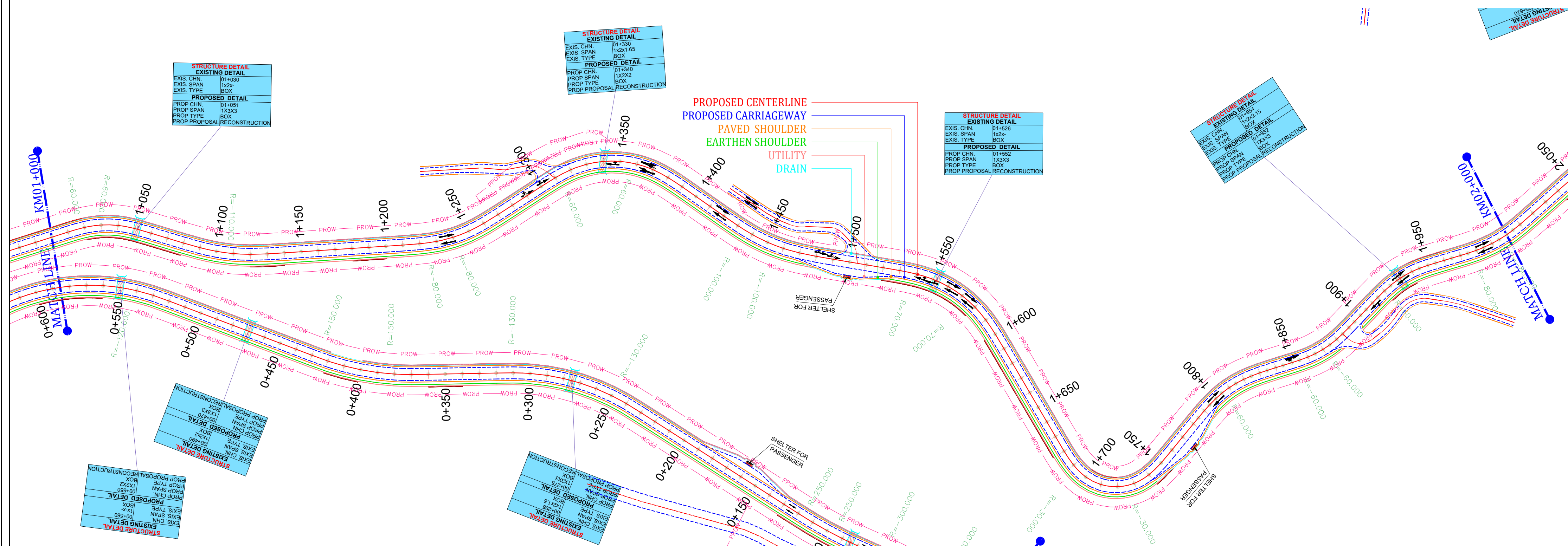
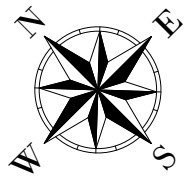
PLAN & PROFILE RHENOCK TO RONGLI BAZAAR



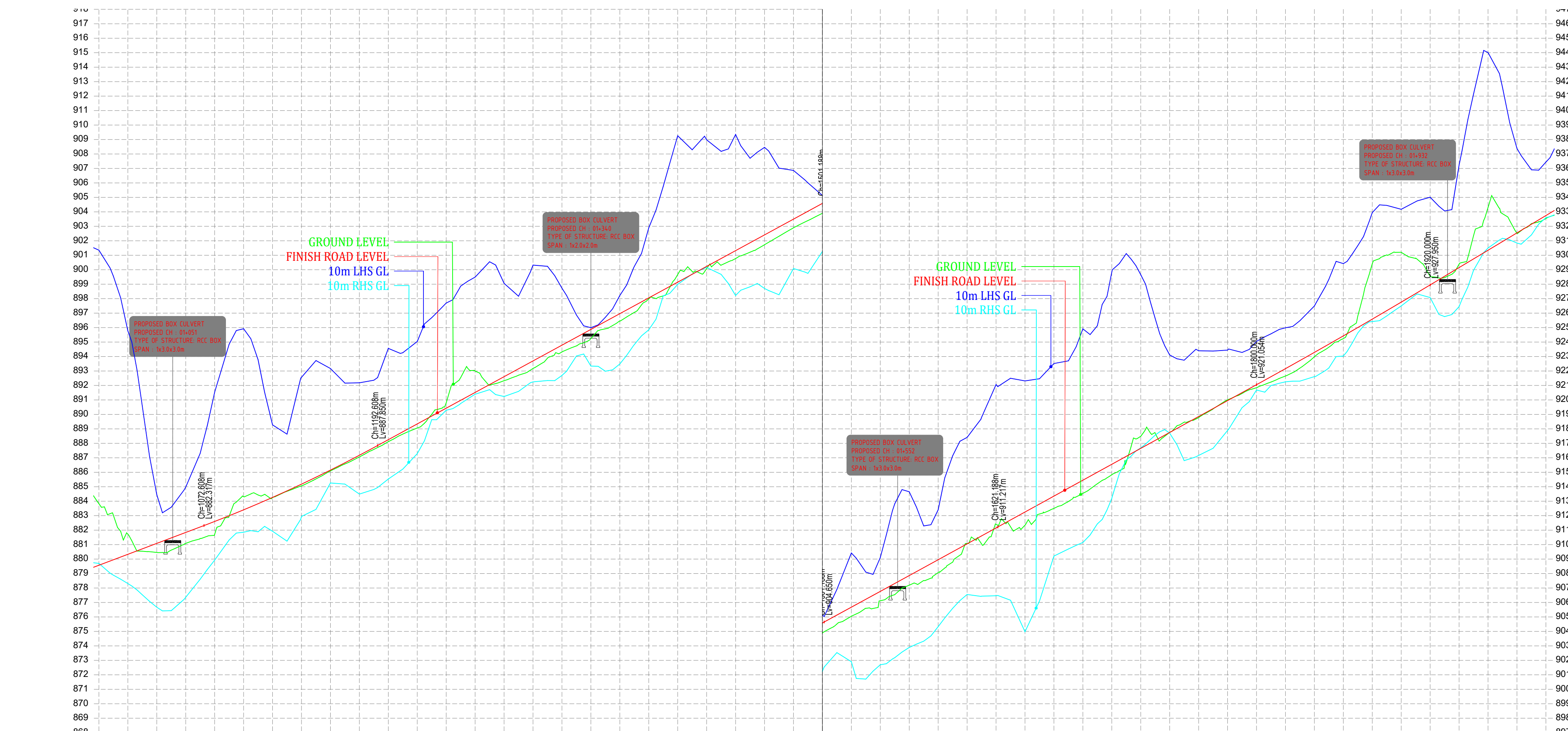
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:	Design Consultant:	Project :	Design By : RK	Title:
					Proposed Center line	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	XPLORER in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities In Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK	Rhenock To Rongli Bazaar Plan From Km-00+000 To Km-01+000
					Proposed Carriageway				Checked By : AH	
					Proposed Paved Shoulder				Approved By : VY	Dwg No: XPL/DSD/SKM/P&P/KM15.3/1
					Proposed Earthen Shoulder				Scale : 1/2000(H)	Sheet : 01 OF 02
					Utility				Date : Dec-2024	
					Drain					
					Retaining Wall					
					Breast wall					
					Slope Protection					



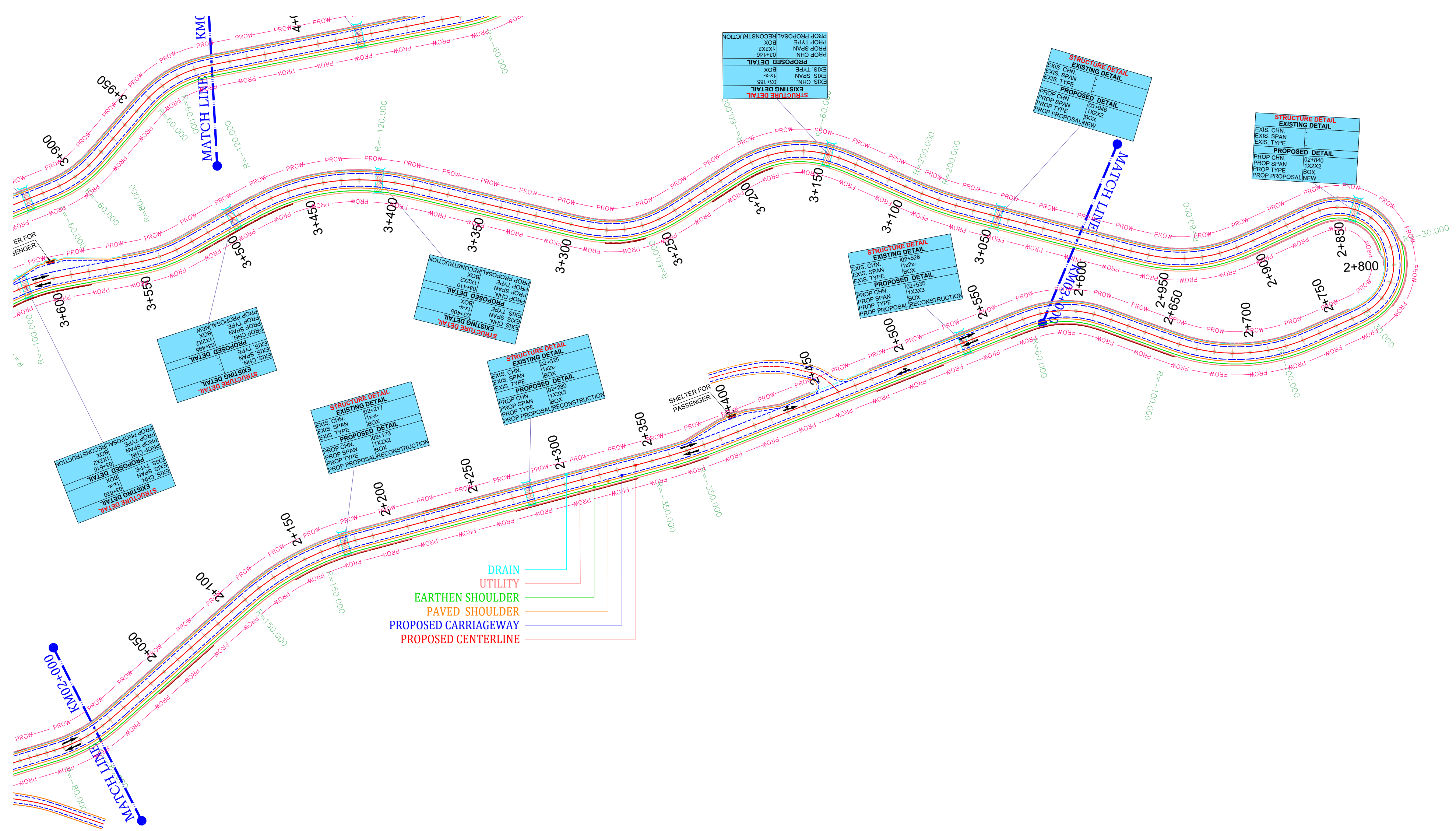
PROPOSED FRL LEVELS	839.730	839.808	839.886	839.967	840.082	840.236	840.429	840.660	840.930	841.239	841.587	841.973	842.398	842.858	843.323	843.789	844.254	844.720	845.185	845.650	846.116	846.580	847.044	847.507	847.969	848.431	848.892	849.353	849.812	850.272	850.730	851.188	851.645	852.103	852.560	853.018	853.475	853.933	854.390	854.848	855.310	855.762	856.264	856.755	857.256	857.767	858.287	858.817	859.352	859.886	860.421	860.956	861.491	861.994	862.426	862.860	863.295	863.730	864.165	864.600	865.034	865.468	865.902	866.336	866.770	867.204	867.638	868.072	868.506	868.940	869.374	869.808	870.242	870.676	871.110	871.544	871.978	872.412	872.846	873.280	873.714	874.148	874.582	875.016	875.450	875.884	876.318	876.752	877.186	877.620	878.054	878.488	878.922	879.356	879.790	880.224	880.658	881.092	881.526	881.960	882.394	882.828	883.262	883.696	884.130	884.564	884.998	885.432	885.866	886.300	886.734	887.168	887.602	888.036	888.470	888.904	889.338	889.772	890.206	890.640	891.074	891.508	891.942	892.376	892.810	893.244	893.678	894.112	894.546	894.980	895.414	895.848	896.282	896.716	897.150	897.584	898.018	898.452	898.886	899.320	899.754	900.188	900.622	901.056	901.490	901.924	902.358	902.792	903.226	903.660	904.094	904.528	904.962	905.396	905.830	906.264	906.698	907.132	907.566	907.999	908.433	908.867	909.301	909.735	910.169	910.603	911.037	911.471	911.905	912.339	912.773	913.207	913.641	914.075	914.509	914.943	915.377	915.811	916.245	916.679	917.113	917.547	917.981	918.415	918.849	919.283	919.717	920.151	920.585	921.019	921.453	921.887	922.321	922.755	923.189	923.623	924.057	924.491	924.925	925.359	925.793	926.227	926.661	927.095	927.529	927.963	928.397	928.831	929.265	929.699	930.133	930.567	930.999	931.433	931.867	932.301	932.735	933.169	933.603	934.037	934.471	934.905	935.339	935.773	936.207	936.641	937.075	937.509	937.943	938.377	938.811	939.245	939.679	940.113	940.547	940.981	941.415	941.849	942.283	942.717	943.151			
EXISTING GROUND LEVEL	839.040	839.616	839.752	839.967	840.026	840.006	840.301	840.336	840.503	840.677	841.130	841.350	841.520	841.350	842.200	843.948	842.623	843.426	844.371	844.436	844.512	844.807	845.620	846.131	846.580	847.044	847.507	847.969	848.431	848.892	849.353	849.812	850.272	850.730	851.188	851.645	852.103	852.560	853.018	853.475	853.933	854.390	854.848	855.310	855.762	856.264	856.755	857.256	857.767	858.287	858.817	859.352	859.886	860.421	860.956	861.491	861.994	862.426	862.860	863.295	863.730	864.165	864.600	865.034	865.468	865.902	866.336	866.770	867.204	867.638	868.072	868.506	868.940	869.374	869.808	870.242	870.676	871.110	871.544	871.978	872.412	872.846	873.280	873.714	874.148	874.582	875.016	875.450	875.884	876.318	876.752	877.186	877.620	878.054	878.488	878.922	879.356	879.790	880.224	880.658	881.092	881.526	881.960	882.394	882.828	883.262	883.696	884.130	884.564	884.998	885.432	885.866	886.300	886.734	887.168	887.602	888.036	888.470	888.904	889.338	889.772	890.206	890.640	891.074	891.508	891.942	892.376	892.810	893.244	893.678	894.112	894.546	894.980	895.414	895.848	896.282	896.716	897.150	897.584	898.018	898.452	898.886	899.320	899.754	900.188	900.622	901.056	901.490	901.924	902.358	902.792	903.226	903.660	904.094	904.528	904.962	905.396	905.830	906.264	906.698	907.132	907.566	907.999	908.433	908.867	909.301	909.735	910.169	910.603	911.037	911.471	911.905	912.339	912.773	913.207	913.641	914.075	914.509	914.943	915.377	915.811	916.245	916.679	917.113	917.547	917.981	918.415	918.849	919.283	919.717	920.151	920.585	921.019	921.453	921.887	922.321	922.755	923.189	923.623	924.057	924.491	924.925	925.359	925.793	926.227	926.661	927.095	927.529	927.963	928.397	928.831	929.265	929.699	930.133	930.567	930.999	931.433	931.867	932.301	932.735	933.169	933.603	934.037	934.471	934.905	935.339	935.773	936.207	936.641	937.075	937.509	937.943	938.377	938.811	939.245	939.679	940.113	940.547	940.981	941.415	941.849	942.283	942.717	943.151
GROUND LVL 10.0m LHS	837.903	837.549	837.543	837.552	838.190	839.157	840.301	840.336	840.503	840.677	841.163	841.520	841.520	841.520	842.200	843.984	841.863	843.823	844.584	844.512	844.807	845.620	846.131	846.580	847.044	847.507	847.969	848.431	848.892	849.353	849.812	850.272	850.730	851.188	851.645	852.103	852.560	853.018	853.475	853.933	854.390	854.848	855.310	855.762	856.264	856.755	857.256	857.767	858.287	858.817	859.352	859.886	860.421	860.956	861.491	861.994	862.426	862.860	863.295	863.730	864.165	864.600	865.034	865.468	865.902	866.336	866.770	867.204	867.638	868.072	868.506	868.940	869.374	869.808	870.242	870.676	871.110	871.544	871.978	872.412	872.846	873.280	873.714	874.148	874.582	875.016	875.450	875.884	876.318	876.752	877.186	877.620	878.054	878.488	878.922	879.356	879.790	880.224	880.658	881.092	881.526	881.960	882.394	882.828	883.262	883.696	884.130	884.564	884.998	885.432	885.866	886.300	886.734	887.168	887.602	888.036	888.470	888.904	889.338	889.772	890.206	890.640	891.074	891.508	891.942	892.376	892.810	893.244	893.678	894.112	894.546	894.980	895.414	895.848	896.282	896.716	897.150	897.584	898.018	898.452	898.886	899.320	899.754	900.188	900.622	901.056	901.490	901.924	902.358	902.792	903.226	903.660	904.094	904.528	904.962	905.396	905.830	906.264	906.698	907.132	907.566	907.999	908.433	908.867	909.301	909.735	910.169	910.603	911.037	911.471	911.905	912.339	912.773	913.207	913.641	914.075	914.509	914.943	915.377	915.811	916.245	916.679	917.113	917.547	917.981	918.415	918.849	919.283	919.717	920.151	920.585	921.019	921.453	921.887	922.321	922.755	923.189	923.623	924.057	924.491	924.925	925.359	925.793	926.227	926.661	927.095	927.529	927.963	928.397	928.831	929.265	929.699	930.133	930.567	930.999	931.433	931.867	932.301	932.735	933.169	933.603	934.037	934.471	934.905	935.339	935.773	936.207	936.641	937.075	937.509	937.943	938.377	938.811	939.245	939.679	940.113	940.547	940.981	941.415	941.849	942.283	942.717	943.151	
GROUND LVL 10.0m RHS	842.832	843.839	844.590	844.980	845.624	845.458	845.949	846.720	845.131	844.939	844.795	845.950	846.741	845.649	846.243	844.013	844.762	849.742	850.458	852.140	853.384	854.270	855.161	856.250	855.722	856.915	855.281	856.908	856.764	857.062	859.153	859.910	858.681	855.600	856.080	856.908	858.605	858.939	857.062	859.517	872.951	872.042	870.539	868.500	868.909	868.833	870.433	873.505	875.377	876.081	876.201	876.360	877.504	877.594	876.858	877.037	876.991	876.979	876.970	875.942	876.270	876.342	876.052	875.761	874.644	874.244	874.434	875.700	881.933	883.900	884.827	887.452	889.470	890.539	890.346	889.541	890.551	889.344	888.811	885.723	883.075	880.395	881.182	879.937	880.044	879.952	879.895	879.824	879.702																																																																																																																																																											
HORIZONTAL	L	L	R=300.000m L=37.236m		L	L	R=250.000m L=22.437m				L=103.071m				L	R=130.000m L=61.568m				L	L=41.141m		L	R=150.000m L=42.262m		L=84.101m		L	R=120.000m L=132.490m		L	L=48.177m		✓	R=28.000m L=36.595m		L	R=28.000m L=44.589m		✓	L=72.949m		L	L	L	L=47.952m																																																																																																																																																																																																						
VERTICAL	L=25.383m G=0.777		R=2579.357m L=100.000m				G=4.654 L=64.617m		L=120.000m R=151344.408m				L=80.000m G=4.575		R=10350.638m L=80.000m		L=144.815m G=5.348				L=120.000m R=4291.747m				G=2.500 L=82.276m				R=9790.182m L=120.000m				G=3																																																																																																																																																																																																																			
SUPER ELEVATION																																																																																																																																																																																																																																																				
CHAINAGE	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	300.000	310.000	320.000	330.000	340.000	350.000	360.000	370.000	380.000	390.000	400.000	410.000	420.000	430.000	440.000	450.000	460.000	470.000	480.000	490.000	500.000																																																																																																																																																																																																	



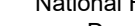
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:	Design Consultant:	Project :	Design By : RK	Title:
					Proposed Center line	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".		Rhenock To Rongli Bazaar Plan From Km-01+000 To Km-02+000
				Proposed Carriageway	Drawn By : MK					
				Proposed Paved Shoulder	Checked By : AH					
				Proposed Earthen Shoulder	Approved By : VY					
				Utility	Dwg No: XPL/DSD/SKM/P&P/KM15.3/3					
				Drain						
				Retaining Wall						
				Breast wall	Scale : 1/2000(H)				Sheet : 01 OF 02	Date : Dec-2024
				Slope Protection						



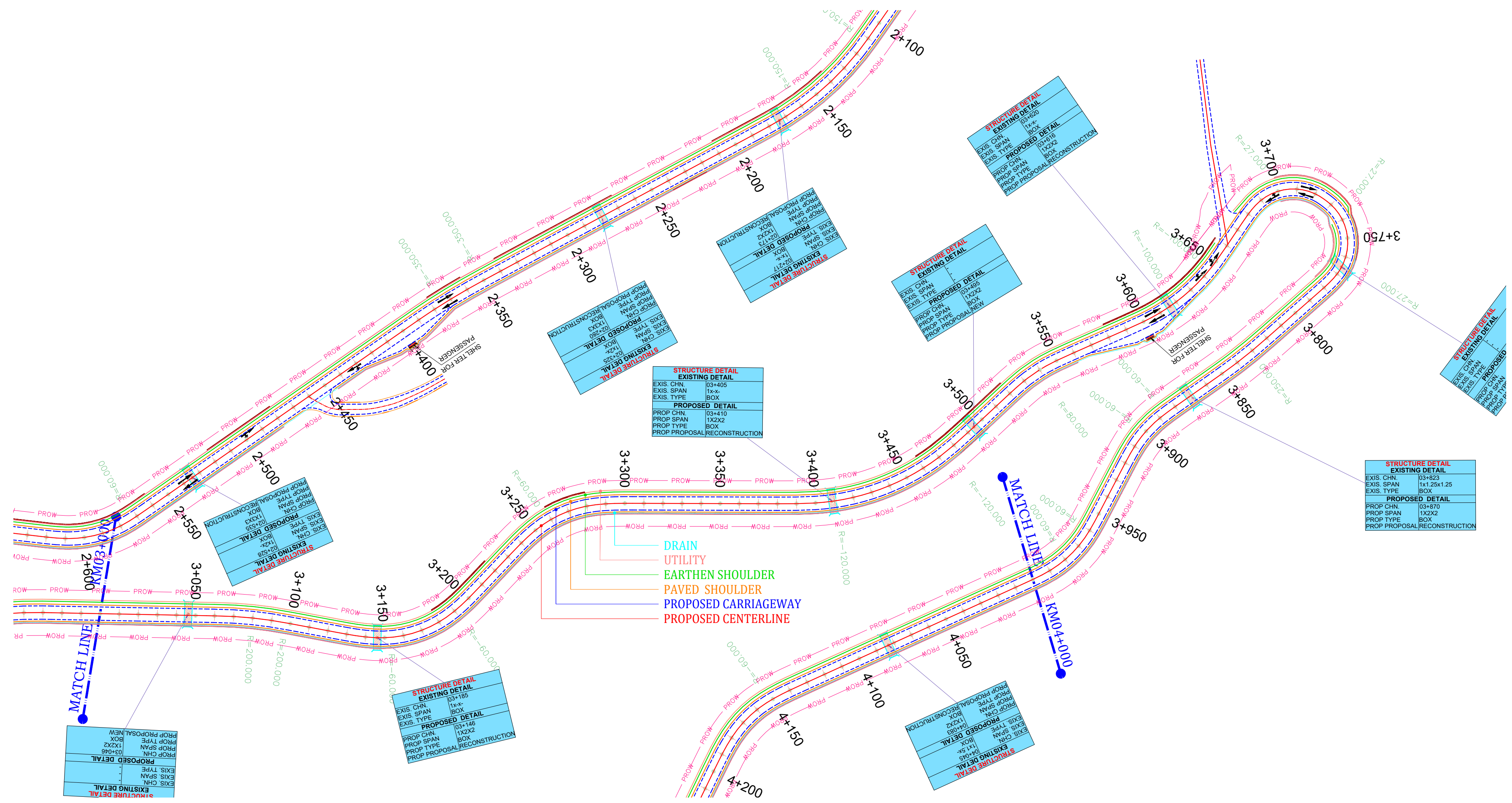
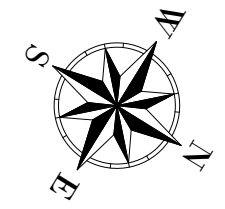
PROPOSED FRL LEVELS	879.574	879.552	880.330	880.708	881.085	881.463	881.841	882.219	882.597	882.975	883.352	883.729	884.106	884.483	884.860	885.237	885.614	885.991	886.368	886.745	887.122	887.499	887.876	888.253	888.630	889.007	889.384	889.761	890.138	890.515	890.892	891.269	891.646	892.023	892.400	892.777	893.154	893.531	893.908	894.285	894.662	895.039	895.416	895.793	896.170	896.547	896.924	897.301	897.678	898.055	898.432	898.809	899.186	899.563	899.940	900.317	900.694	901.071	901.448	901.825	902.202	902.579	902.956	903.333	903.710	904.087	904.464	904.841	905.218	905.595	905.972	906.349	906.726	907.103	907.480	907.857	908.234	908.611	908.988	909.365	909.742	910.119	910.496	910.873	911.250	911.627	912.004	912.381	912.758	913.135	913.512	913.889	914.266	914.643	915.020	915.397	915.774	916.151	916.528	916.905	917.282	917.659	918.036	918.413	918.790	919.167	919.544	919.921	920.298	920.675	921.052	921.429	921.806	922.183	922.560	922.937	923.314	923.691	924.068	924.445	924.822	925.199	925.576	925.953	926.330	926.707	927.084	927.461	927.838	928.215	928.592	928.969	929.346	929.723	930.100	930.477	930.854	931.231	931.608	931.985	932.362	932.739	933.116	933.493	933.870	934.247	934.624	935.001	935.378	935.755	936.132	936.509	936.886	937.263	937.640	938.017	938.394	938.771	939.148	939.525	939.902	940.279	940.656	941.033	941.410	941.787	942.164	942.541	942.918	943.295	943.672	944.049	944.426	944.803	945.180	945.557	945.934	946.311	946.688	947.065	947.442	947.819	948.196	948.573	948.950	949.327	949.704	950.081	950.458	950.835	951.212	951.589	951.966	952.343	952.720	953.097	953.474	953.851	954.228	954.605	954.982	955.359	955.736	956.113	956.490	956.867	957.244	957.621	957.998	958.375	958.752	959.129	959.506	959.883	960.260	960.637	961.014	961.391	961.768	962.145	962.522	962.899	963.276	963.653	964.030	964.407	964.784	965.161	965.538	965.915	966.292	966.669	967.046	967.423	967.800	968.177	968.554	968.931	969.308	969.685	970.062	970.439	970.816	971.193	971.570	971.947	972.324	972.701	973.078	973.455	973.832	974.209	974.586	974.963	975.340	975.717	976.094	976.471	976.848	977.225	977.602	977.979	978.356	978.733	979.110	979.487	979.864	980.241	980.618	980.995	981.372	981.749	982.126	982.503	982.880	983.257	983.634	984.011	984.388	984.765	985.142	985.519	985.896	986.273	986.650	987.027	987.404	987.781	988.158	988.535	988.912	989.289	989.666	990.043	990.420	990.797	991.174	991.551	991.928	992.305	992.682	993.059	993.436	993.813	994.190	994.567	994.944	995.321	995.698	996.075	996.452	996.829	997.206	997.583	997.960	998.337	998.714	999.091	999.468	999.845	1000.222	1000.599	1000.976	1001.353	1001.730	1002.107	1002.484	1002.861	1003.238	1003.615	1003.992	1004.369	1004.746	1005.123	1005.500	1005.877	1006.254	1006.631	1007.008	1007.385	1007.762	1008.139	1008.516	1008.893	1009.270	1009.647	1010.024	1010.401	1010.778	1011.155	1011.532	1011.909	1012.286	1012.663	1013.040	1013.417	1013.794	1014.171	1014.548	1014.925	1015.302	1015.679	1016.056	1016.433	1016.810	1017.187	1017.564	1017.941	1018.318	1018.695	1019.072	1019.449	1019.826	1020.203	1020.580	1020.957	1021.334	1021.711	1022.088	1022.465	1022.842	1023.219	1023.596	1023.973	1024.350	1024.727	1025.104	1025.481	1025.858	1026.235	1026.612	1026.989	1027.366	1027.743	1028.120	1028.497	1028.874	1029.251	1029.628	1030.005	1030.382	1030.759	1031.136	1031.513	1031.890	1032.267	1032.644	1033.021	1033.398	1033.775	1034.152	1034.529	1034.906	1035.283	1035.660	1036.037	1036.414	1036.791	1037.168	1037.545	1037.922	1038.299	1038.676	1039.053	1039.430	1039.807	1040.184	1040.561	1040.938	1041.315	1041.692	1042.069	1042.446	1042.823	1043.200	1043.577	1043.954	1044.331	1044.708	1045.085	1045.462	1045.839	1046.216	1046.593	1046.970	1047.347	1047.724	1048.101	1048.478	1048.855	1049.232	1049.609	1049.986	1050.363	1050.740	1051.117	1051.494	1051.871	1052.248	1052.625	1053.002	1053.379	1053.756	1054.133	1054.510	1054.887	1055.264	1055.641	1056.018	1056.395	1056.772	1057.149	1057.526	1057.903	1058.280	1058.657	1059.034	1059.411	1059.788	1060.165	1060.542	1060.919	1061.296	1061.673	1062.050	1062.427	1062.804	1063.181	1063.558	1063.935	1064.312	1064.689	1065.066	1065.443	1065.820	1066.197	1066.574	1066.951	1067.328	1067.705	1068.082	1068.459	1068.836	1069.213	1069.590	1069.967	1070.344	1070.721	1071.098	1071.475	1071.852	1072.229	1072.606	1072.983	1073.360	1073.737	1074.114	1074.491	1074.868	1075.245	1075.622	1075.999	1076.376	1076.753	1077.130	1077.507	1077.884	1078.261	1078.638	1079.015	1079.392	1079.769	1080.146	1080.523	1080.900	1081.277	1081.654	1082.031	1082.408	1082.785	1083.162	1083.539	1083.916	1084.293	1084.670	1085.047	1085.424	1085.801	1086.178	1086.555	1086.932	1087.309	1087.686	1088.063	1088.440	1088.817	1089.194	1089.571	1089.948	1090.325	1090.702	1091.079	1091.456	1091.833	1092.210	1092.587	1092.964	1093.341	1093.718	1094.095	1094.472	1094.849	1095.226	1095.603	1095.980	1096.357	1096.734	1097.111	1097.488	1097.865	1098.242	1098.619	1098.996	1099.373	1099.750	1100.127	1100.504	1100.881	1101.258	1101.635	1102.012	1102.389	1102.766	1103.143	1103.520	1103.897	1104.274	1104.651	1105.028	1105.405	1105.782	1106.159	1106.536	1106.913	1107.290	1107.667	1108.044	1108.421	1108.798	1109.175	1109.552	1109.929	1110.306	1110.683	1111.060	1111.437	1111.814	1112.191	1112.568	1112.945	1113.322	1113.699	1114.076	1114.453	1114.830	1115.207	1115.584	1115.961	1116.338	1116.715	1117.092	1117.469	1117.846	1118.223	1118.600	1118.977	1119.354	1119.731	1120.108	1120.485	1120.862	1121.239	1121.616	1121.993	1122.370	1122.747	1123.124	1123.501	1123.878	1124.255	1124.632	1125.009	1125.386	1125.763	1126.140	1126.517	1126.894	1127.271	1127.648	1128.025	1128.402	1128.779	1129.156	1129.533	1129.910	1130.287	1130.664	1131.041	1131.418	1131.795	1132.172	1132.549	1132.926	1133.303	1133.680	1134.057	1134.434	1134.811	1135.188	1135.565	1135.942	1136.319	1136.696	1137.073	1137.450	1137.827	1138.204	1138.581	1138.958	1139.335	1139.712	1140.089	1140.466	1140.843	1141.220	1141.597	1141.974	1142.351	1142.728	1143.105	1143.482	1143.859	1144.236	1144.613	1144.990	1145.367	1145.744	1146.121	1146.498	1146.875	1147.252	1147.629	1148.006	1148.383	1148.760	1149.137	1149.514	1149.891	1150.268	1150.645	1151.022	1151.399	1151.776	1152.153	1152.530	1152.907	1153.284	1153.661	1154.038	1154.415	1154.792	1155.169	1155.546	1155.923	1156.300	1156.677	1157.054	1157.431	1157.808	1158.185	1158.562	1158.939	1159.316	1159.693	1160.070	1160.447	1160.824	1161.201	1161.578	1161.955	1162.332	1162.709	1163.086	1163.463	1163.840	1164.217	1164.594	1164.971	1165.348	1165.725	1166.102	1166.479	1166.856	1167.233	1167.610	1167.987	1168.364	1168.741	1169.118	1169.495	1169.872	1170.249	1170.626	1171.003	1171.380	1171.757	1172.134	1172.511	1172.888	1173.265	1173.642	1174.019	1174.396	1174.773	1175.150	1175.527	1175.904	1176.281	1176.658	1177.035	1177.412	1177.789	1178.166	1178.543	1178.920	1179.297	1179.674	1180.051	1180.428	1180.805	1181.182	1181.559	1181.936	1182.313	1182.690	1183.067	1183.444	1183.821	1184.198	1184.575	1184.952	1185.329	1185.706	1186.083	1186.460	1186.837	1187.214	1187.591	1187.968	1188.345	1188.722	1189.099	1189.476	1189.853	1190.230	1190.607	1190.984	1191.361	1191.738	1192.115	1192.492	1192.869	1193.246	1193.623	1194.000	1194.377	1194.754	1195.131	1195.508	1195.885	1196.262	1196.639	1197.016	1197.393	1197.770	1198.147	1198.524	1198.901	1199.278	1199.655	1200.032	1200.409	1200.786	1201.163	1201.540	1201.917	1202.294	1202.671	1203.048	1203.425	1203.802	1204.179	1204.556	1204.933	1205.310	1205.687	1206.064	1206.441	1206.818	1207.195	1207.572	1207.949	1208.326	1208.703	1209.080	1209.457	1209.834	1210.211	1210.588	1210.965	1211.342	1211.719	1212.096	1212.473	1212.850	1213.227	1213.604	1213.981	1214.358	1214.735	1215.112	1215.489	1215.866	1216.243	1216.620	1216.997	1217.374	1217.751	1218.128	1218.505	1218.882	1219.259	1219.636	1220.013	1220.390	1220.767	1221.144	1221.521	1221.898	1222.275	1222.652	1223.029	1223.406	1223.783	1224.160	1224.537	1224.914	1225.291	1225.668	1226.045	1226.422	1226.799	1227.176	1227.553	1227.930	1228.307	1228.684	1229.061	1229.438	1229.815	1230.192	1230.569	1230.946	1231.323	1231.700	1232.077	1232.454	1232.831	1233.208	1233.585	1233.962	1234.339	1234.716	1235.093	1235.470	1235.847	1236.224	1236.601	1236.978	1237.355	1237.732	1238.109	1238.486	1238.863	1239.240	1239.617	1239.994	1240.371	1240.748	1241.
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- DRAIN
- UTILITY
- EARTHEN SHOULDER
- PAVED SHOULDER
- PROPOSED CARRIAGEWAY
- PROPOSED CENTERLINE

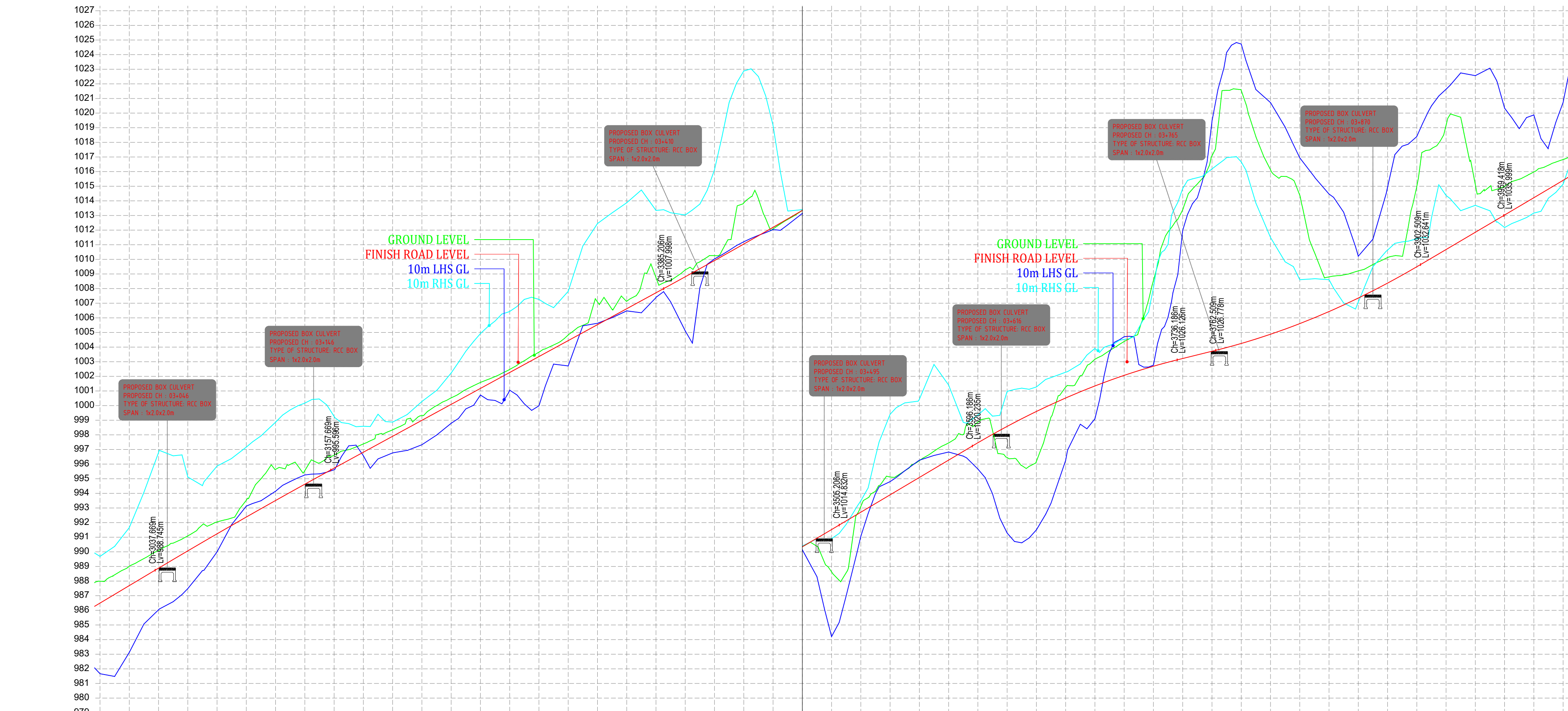
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:  National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradaation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Design By : RK	Title: Rhenock To Rongli Bazaar Plan From Km-02+000 To Km-03+000								
					Drawn By : MK													
					Checked By : AH													
												Approved By : VY			Dwg No: XPL/DSD/SKM/P&P/KM15.3/5			
												Scale : 1/2000(H)			Sheet : 01 OF 02		Date : Dec-2024	



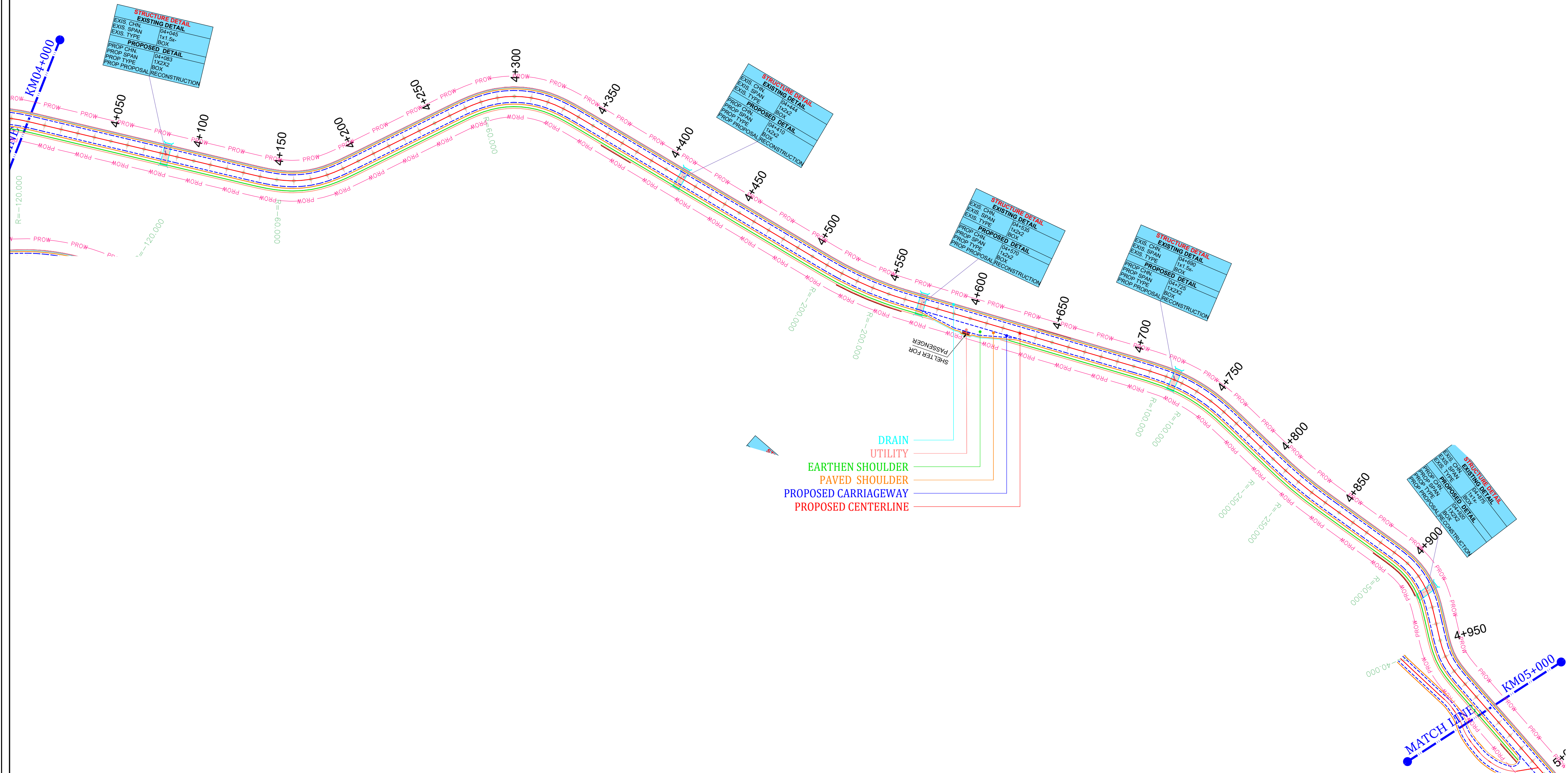
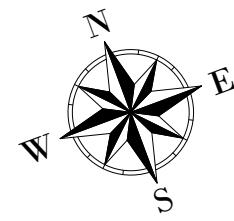


DRAIN
UTILITY
EARTHEN SHOULDER
PAVED SHOULDER
PROPOSED CARRIAGEWAY
PROPOSED CENTERLINE

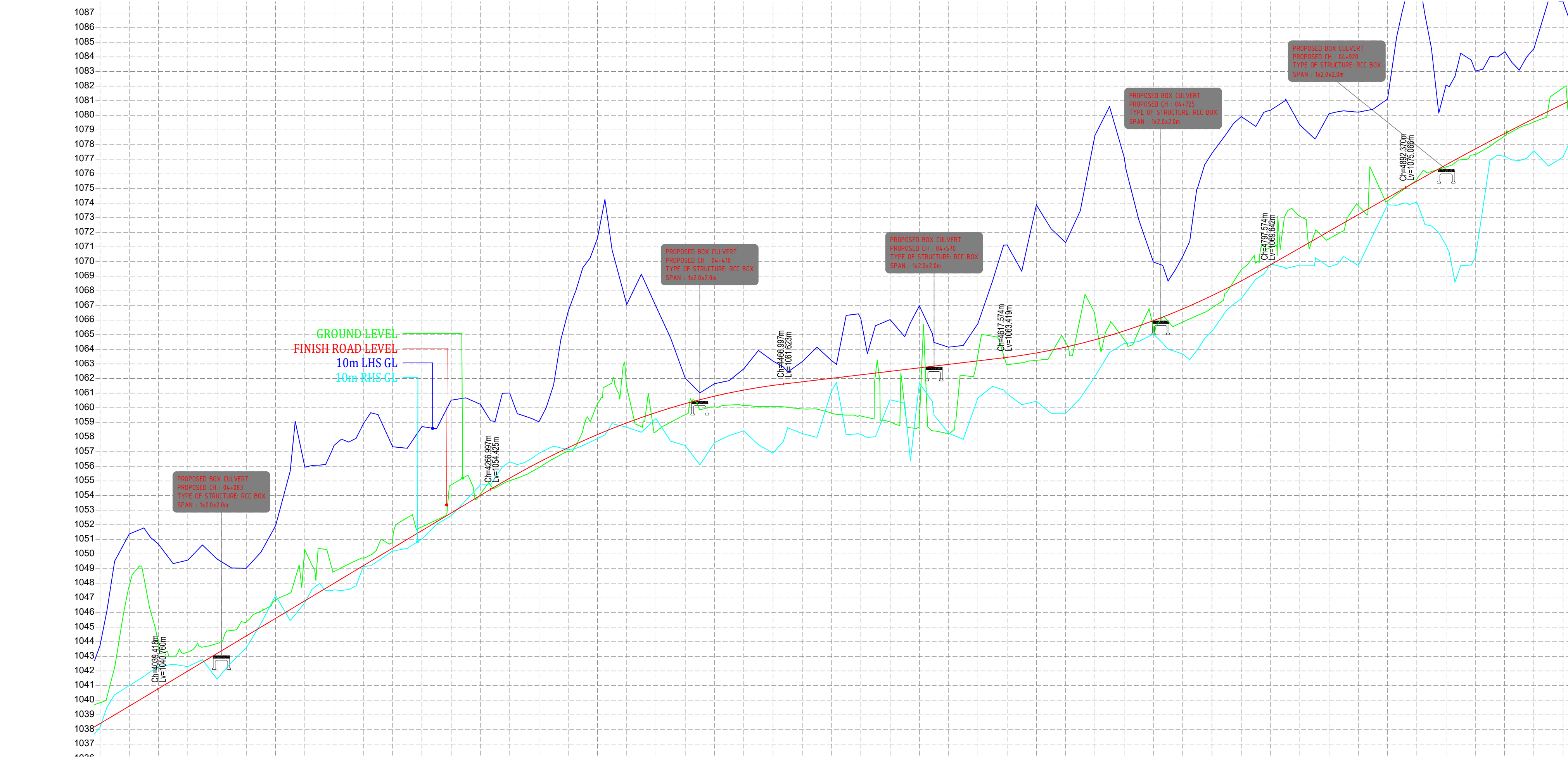
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:			Design Consultant:			Project :			Design By : RK	Title:
					Proposed Center line	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)			Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301			Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".			Drawn By : MK	
					Proposed Carriageway										Checked By : AH	Rhenock To Rongli Bazaar Plan From Km-03+000 To Km-04+000
					Proposed Paved Shoulder	1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029									Approved By : VY	
					Proposed Earthen Shoulder										Scale : 1/2000(H)	Dwg No: XPL/DSD/SKM/P&P/KM15.3/7
					Utility										Sheet : 01 OF 02	Date : Dec-2024
					Drain											
					Retaining Wall											
					Breast wall											
					Slope Protection											



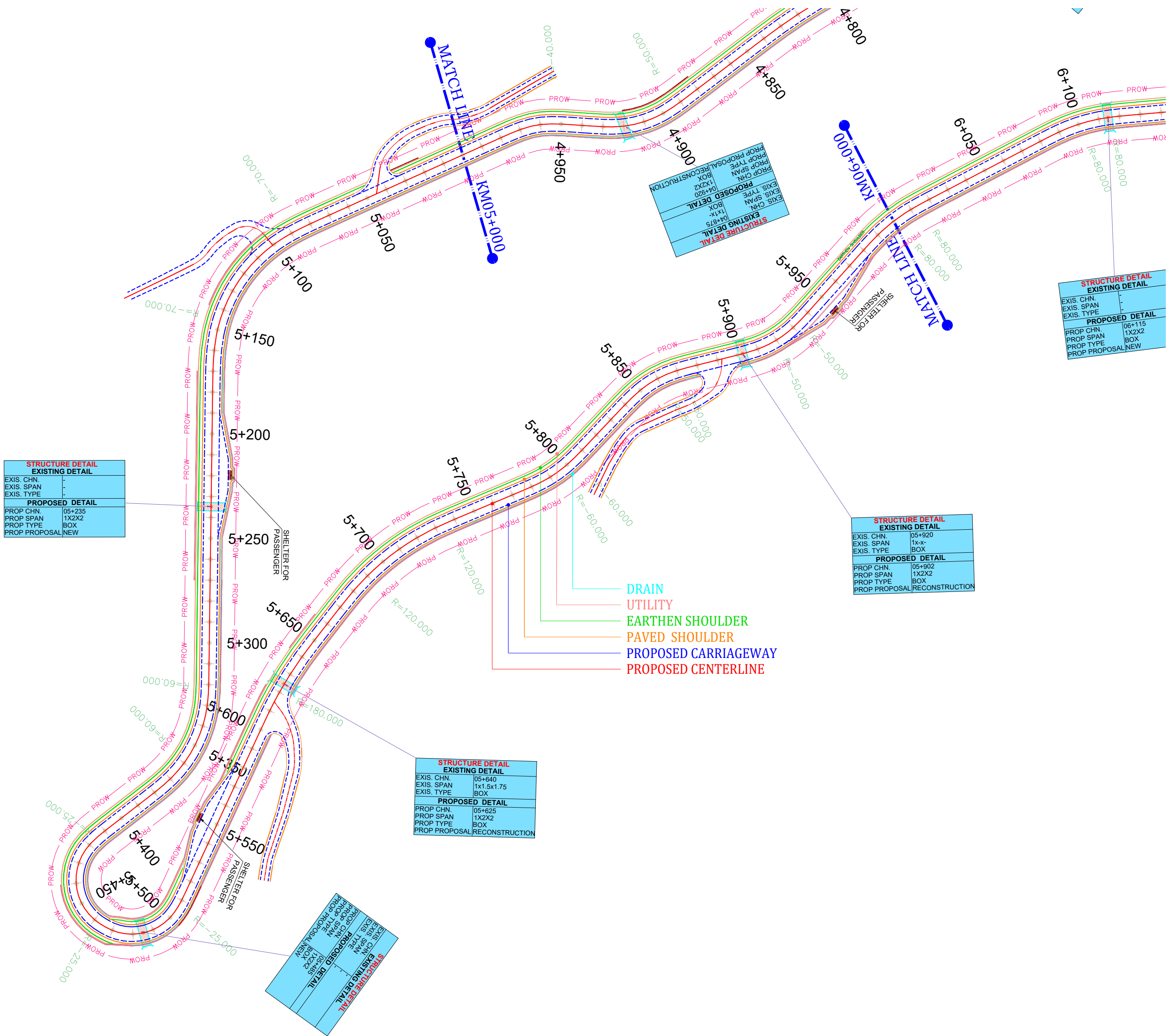
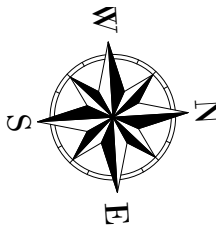
PROPOSED FRL LEVELS	986.497	987.094	987.691	988.287	988.884	989.477	990.067	990.652	991.232	991.809	992.381	992.948	993.512	994.071	994.626	995.176	995.723	996.268	996.813	997.358	997.903	998.448	998.993	999.538	1000.083	1000.629	1001.174	1001.719	1002.264	1002.809	1003.354	1003.899	1004.444	1004.989	1005.534	1006.079	1006.625	1007.171	1007.715	1008.260	1008.809	1009.362	1009.920	1010.475	1011.030	1011.585	1012.140	1012.695	1013.250	1013.805	1014.360	1014.915	1015.470	1016.025	1016.580	1017.135	1017.690	1018.245	1018.800	1019.355	1019.910	1020.465	1021.020	1021.575	1022.130	1022.685	1023.240	1023.795	1024.350	1024.905	1025.460	1026.015	1026.570	1027.125	1027.680	1028.235	1028.790	1029.345	1029.899	1030.454	1031.009	1031.564	1032.119	1032.674	1033.229	1033.784	1034.339	1034.894	1035.449	1035.999	1036.554	1037.109	1037.664	1038.219	1038.774	1039.329	1039.884	1040.439	1040.994	1041.549	1042.104	1042.659	1043.214	1043.769	1044.324	1044.879	1045.434	1045.989	1046.544	1047.099	1047.654	1048.209	1048.764	1049.319	1049.874	1050.429	1050.984	1051.539	1052.094	1052.649	1053.204	1053.759	1054.314	1054.869	1055.424	1055.979	1056.534	1057.089	1057.644	1058.199	1058.754	1059.309	1059.864	1060.419	1060.974	1061.529	1062.084	1062.639	1063.194	1063.749	1064.304	1064.859	1065.414	1065.969	1066.524	1067.079	1067.634	1068.189	1068.744	1069.299	1069.854	1070.409	1070.964	1071.519	1072.074	1072.629	1073.184	1073.739	1074.294	1074.849	1075.404	1075.959	1076.514	1077.069	1077.624	1078.179	1078.734	1079.289	1079.844	1080.399	1080.954	1081.509	1082.064	1082.619	1083.174	1083.729	1084.284	1084.839	1085.394	1085.949	1086.504	1087.059	1087.614	1088.169	1088.724	1089.279	1089.834	1090.389	1090.944	1091.499	1092.054	1092.609	1093.164	1093.719	1094.274	1094.829	1095.384	1095.939	1096.494	1097.049	1097.604	1098.159	1098.714	1099.269	1099.824	1100.379	1100.934	1101.489	1102.044	1102.599	1103.154	1103.709	1104.264	1104.819	1105.374	1105.929	1106.484	1107.039	1107.594	1108.149	1108.704	1109.259	1109.814	1110.369	1110.924	1111.479	1112.034	1112.589	1113.144	1113.699	1114.254	1114.809	1115.364	1115.919	1116.474	1117.029	1117.584	1118.139	1118.694	1119.249	1119.804	1120.359	1120.914	1121.469	1122.024	1122.579	1123.134	1123.689	1124.244	1124.799	1125.354	1125.909	1126.464	1127.019	1127.574	1128.129	1128.684	1129.239	1129.794	1130.349	1130.904	1131.459	1132.014	1132.569	1133.124	1133.679	1134.234	1134.789	1135.344	1135.899	1136.454	1137.009	1137.564	1138.119	1138.674	1139.229	1139.784	1140.339	1140.894	1141.449	1141.999	1142.554	1143.109	1143.664	1144.219	1144.774	1145.329	1145.884	1146.439	1146.994	1147.549	1148.104	1148.659	1149.214	1149.769	1150.324	1150.879	1151.434	1151.989	1152.544	1153.099	1153.654	1154.209	1154.764	1155.319	1155.874	1156.429	1156.984	1157.539	1158.094	1158.649	1159.204	1159.759	1160.314	1160.869	1161.424	1161.979	1162.534	1163.089	1163.644	1164.199	1164.754	1165.309	1165.864	1166.419	1166.974	1167.529	1168.084	1168.639	1169.194	1169.749	1170.304	1170.859	1171.414	1171.969	1172.524	1173.079	1173.634	1174.189	1174.744	1175.299	1175.854	1176.409	1176.964	1177.519	1178.074	1178.629	1179.184	1179.739	1180.294	1180.849	1181.404	1181.959	1182.514	1183.069	1183.624	1184.179	1184.734	1185.289	1185.844	1186.399	1186.954	1187.509	1188.064	1188.619	1189.174	1189.729	1190.284	1190.839	1191.394	1191.949	1192.504	1193.059	1193.614	1194.169	1194.724	1195.279	1195.834	1196.389	1196.944	1197.499	1198.054	1198.609	1199.164	1199.719	1200.274	1200.829	1201.384	1201.939	1202.494	1203.049	1203.604	1204.159	1204.714	1205.269	1205.824	1206.379	1206.934	1207.489	1208.044	1208.599	1209.154	1209.709	1210.264	1210.819	1211.374	1211.929	1212.484	1213.039	1213.594	1214.149	1214.704	1215.259	1215.814	1216.369	1216.924	1217.479	1218.034	1218.589	1219.144	1219.699	1220.254	1220.809	1221.364	1221.919	1222.474	1223.029	1223.584	1224.139	1224.694	1225.249	1225.804	1226.359	1226.914	1227.469	1228.024	1228.579	1229.134	1229.689	1230.244	1230.799	1231.354	1231.909	1232.464	1233.019	1233.574	1234.129	1234.684	1235.239	1235.794	1236.349	1236.904	1237.459	1238.014	1238.569	1239.124	1239.679	1240.234	1240.789	1241.344	1241.899	1242.454	1243.009	1243.564	1244.119	1244.674	1245.229	1245.784	1246.339	1246.894	1247.449	1248.004	1248.559	1249.114	1249.669	1250.224	1250.779	1251.334	1251.889	1252.444	1252.999	1253.554	1254.109	1254.664	1255.219	1255.774	1256.329	1256.884	1257.439	1257.994	1258.549	1259.104	1259.659	1260.214	1260.769	1261.324	1261.879	1262.434	1262.989	1263.544	1264.099	1264.654	1265.209	1265.764	1266.319	1266.874	1267.429	1267.984	1268.539	1269.094	1269.649	1270.204	1270.759	1271.314	1271.869	1272.424	1272.979	1273.534	1274.089	1274.644	1275.199	1275.754	1276.309	1276.864	1277.419	1277.974	1278.529	1279.084	1279.639	1280.194	1280.749	1281.304	1281.859	1282.414	1282.969	1283.524	1284.079	1284.634	1285.189	1285.744	1286.299	1286.854	1287.409	1287.964	1288.519	1289.074	1289.629	1290.184	1290.739	1291.294	1291.849	1292.404	1292.959	1293.514	1294.069	1294.624	1295.179	1295.734	1296.289	1296.844	1297.399	1297.954	1298.509	1299.064	1299.619	1300.174	1300.729	1301.284	1301.839	1302.394	1302.949	1303.504	1304.059	1304.614	1305.169	1305.724	1306.279	1306.834	1307.389	1307.944	1308.499	1309.054	1309.609	1310.164	1310.719	1311.274	1311.829	1312.384	1312.939	1313.494	1314.049	1314.604	1315.159	1315.714	1316.269	1316.824	1317.379	1317.934	1318.489	1319.044	1319.599	1320.154	1320.709	1321.264	1321.819	1322.374	1322.929	1323.484	1324.039	1324.594	1325.149	1325.704	1326.259	1326.814	1327.369	1327.924	1328.479	1329.034	1329.589	1330.144	1330.699	1331.254	1331.809	1332.364	1332.919	1333.474	1334.029	1334.584	1335.139	1335.694	1336.249	1336.804	1337.359	1337.914	1338.469	1339.024	1339.579	1340.134	1340.689	1341.244	1341.799	1342.354	1342.909	1343.464	1344.019	1344.574	1345.129	1345.684	1346.239	1346.794	1347.349	1347.904	1348.459	1349.014	1349.569	1350.124	1350.679	1351.234	1351.789	1352.344	1352.899	1353.454	1354.009	1354.564	1355.119	1355.674	1356.229	1356.784	1357.339	1357.894	1358.449	1359.004	1359.559	1360.114	1360.669	1361.224	1361.779	1362.334	1362.889	1363.444	1363.999	1364.554	1365.109	1365.664	1366.219	1366.774	1367.329	1367.884	1368.439	1368.994	1369.549	1370.104	1370.659	1371.214	1371.769	1372.324	1372.879	1373.434	1373.989	1374.544	1375.099	1375.654	1376.209	1376.764	1377.319	1377.874	1378.429	1378.984	1379.539	1380.094	1380.649	1381.204	1381.759	1382.314	1382.869	1383.424	1383.979	1384.534	1385.089	1385.644	1386.199	1386.754	1387.309	1387.864	1388.419	1388.974	1389.529	1390.084	1390.639	1391.194	1391.749	1392.304	1392.859	1393.414	1393.969	1394.524	1395.079	1395.634	1396.189	1396.744	1397.299	1397.854	1398.409	1398.964	1399.519	1400.074	1400.629	1401.184	1401.739	1402.294	1402.849	1403.404	1403.959	1404.514	1405.069	1405.624	1406.179	1406.734	1407.289	1407.844	1408.399	1408.954	1409.509	1410.064	1410.619	1411.174	1411.729	1412.284	1412.839	1413.394	1413.949	1414.504	1415.059	1415.614	1416.169	1416.724	1417.279	1417.834	1418.389	1418.944	1419.499	1420.054	1420.609	1421.164	1421.719	1422.274	1422.829	1423.384	1423.939	1424.494	1425.049	1425.604	1426.159	1426.714	1427.269	1427.824	1428.379	1428.934	1429.489	1430.044	1430.599	1431.154	1431.709	1432.264	1432.819	1433.374	1433.929	1434.484	1435.039	1435.594	1436.149	1436.704	1437.259	1437.814	1438.369	1438.924	1439.479	1440.034	1440.589	1441.144	1441.699	1442.254	1442.809	1443.364	1443.919	1444.474	1445.029	1445.584	1446.139	1446.694	1447.249	1447.804	1448.359	1448.914	1449.469	1450.024	1450.579	1451.134	1451.689	1452.244	1452.799	1453.354	1453.909	1454.464	1455.019	1455.574	1456.129	1456.684	1457.239	1457.794	1458.349	1458.904	1459.459	1460.014	1460.569	1461.124	1461.679	1462.234	1462.789	1463.344	1463.899	1464.454	1465.009	1465.564	1466.119	1466.674	<
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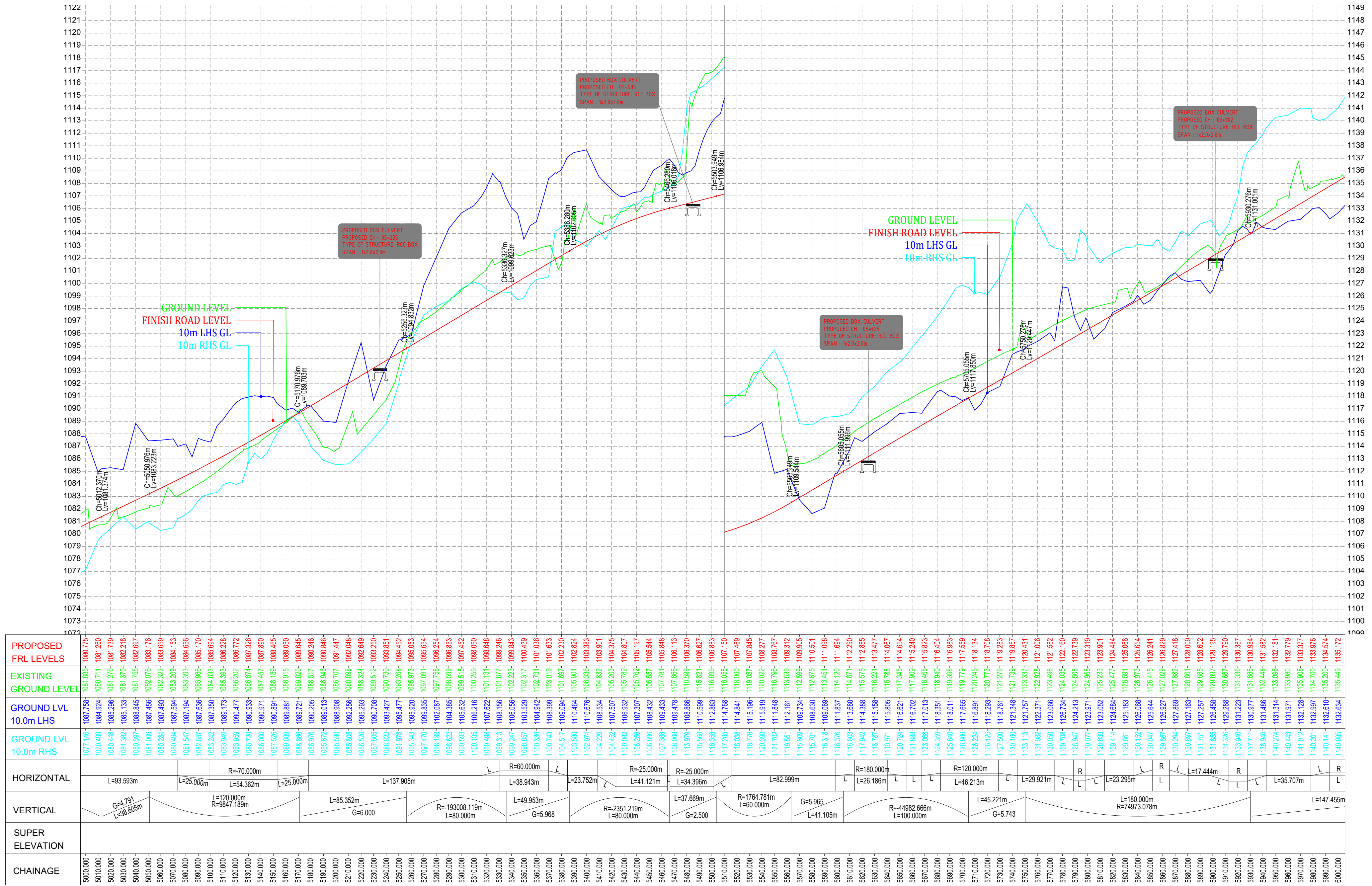
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Design By : RK	Title: Rhenock To Rongli Bazaar Plan From Km-04+000 To Km-05+000
									Drawn By : MK	
									Checked By : AH	
									Approved By : VY	Dwg No: XPL/DSD/SKM/P&P/KM15.3/9
									Scale : 1/2000(H)	Sheet : 01 OF 02 Date : Dec-2024

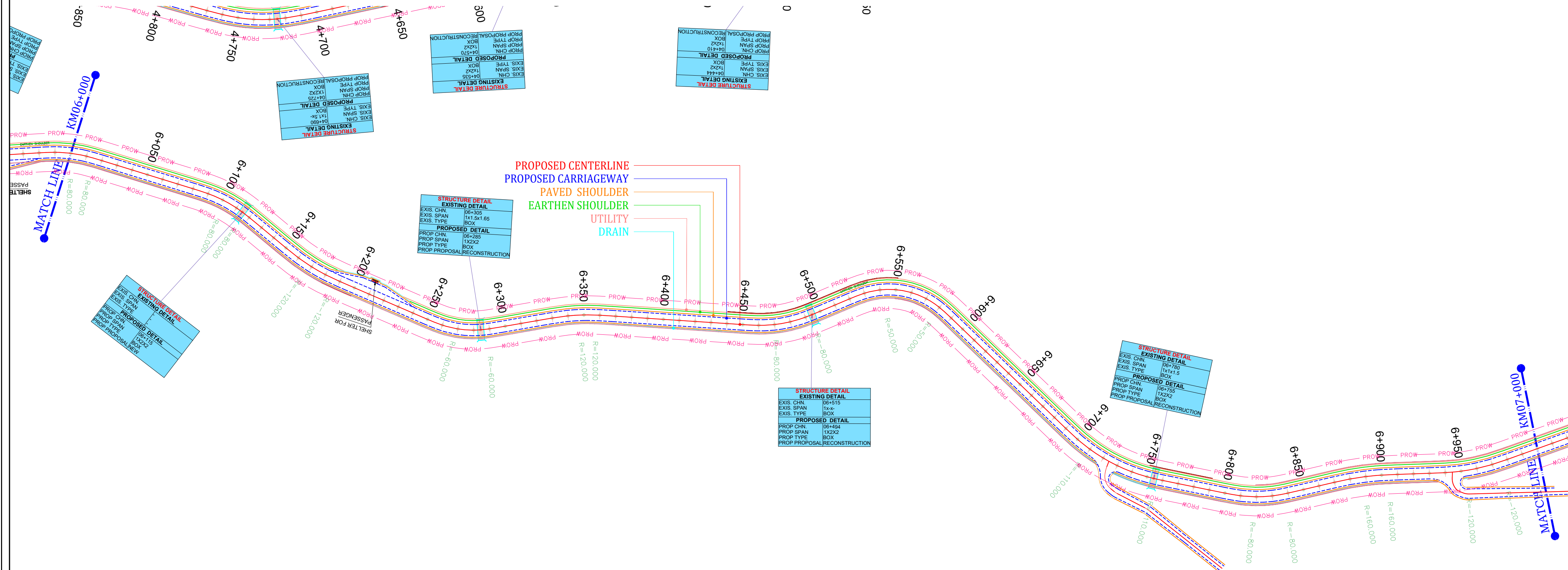


PROPOSED FRL LEVELS	1038.404	1039.628	1040.000	1040.251	1040.511	1040.771	1041.031	1041.291	1041.551	1041.811	1042.071	1042.331	1042.591	1042.851	1043.111	1043.371	1043.631	1043.891	1044.151	1044.411	1044.671	1044.931	1045.191	1045.451	1045.711	1045.971	1046.231	1046.491	1046.751	1047.011	1047.271	1047.531	1047.791	1048.051	1048.311	1048.571	1048.831	1049.091	1049.351	1049.611	1049.871	1050.131	1050.391	1050.651	1050.911	1051.171	1051.431	1051.691	1051.951	1052.211	1052.471	1052.731	1052.991	1053.251	1053.511	1053.771	1054.031	1054.291	1054.551	1054.811	1055.071	1055.331	1055.591	1055.851	1056.111	1056.371	1056.631	1056.891	1057.151	1057.411	1057.671	1057.931	1058.191	1058.451	1058.711	1058.971	1059.231	1059.491	1059.751	1060.011	1060.271	1060.531	1060.791	1061.051	1061.311	1061.571	1061.831	1062.091	1062.351	1062.611	1062.871	1063.131	1063.391	1063.651	1063.911	1064.171	1064.431	1064.691	1064.951	1065.211	1065.471	1065.731	1065.991	1066.251	1066.511	1066.771	1067.031	1067.291	1067.551	1067.811	1068.071	1068.331	1068.591	1068.851	1069.111	1069.371	1069.631	1069.891	1070.151	1070.411	1070.671	1070.931	1071.191	1071.451	1071.711	1071.971	1072.231	1072.491	1072.751	1073.011	1073.271	1073.531	1073.791	1074.051	1074.311	1074.571	1074.831	1075.091	1075.351	1075.611	1075.871	1076.131	1076.391	1076.651	1076.911	1077.171	1077.431	1077.691	1077.951	1078.211	1078.471	1078.731	1078.991	1079.251	1079.511	1079.771	1080.031	1080.291	1080.551	1080.811	1081.071	1081.331	1081.591	1081.851	1082.111	1082.371	1082.631	1082.891	1083.151	1083.411	1083.671	1083.931	1084.191	1084.451	1084.711	1084.971	1085.231	1085.491	1085.751	1086.011	1086.271	1086.531	1086.791	1087.051	1087.311	1087.571	1087.831	1088.091	1088.351	1088.611	1088.871	1089.131	1089.391	1089.651	1089.911	1090.171	1090.431	1090.691	1090.951	1091.211	1091.471	1091.731	1091.991	1092.251	1092.511	1092.771	1093.031	1093.291	1093.551	1093.811	1094.071	1094.331	1094.591	1094.851	1095.111	1095.371	1095.631	1095.891	1096.151	1096.411	1096.671	1096.931	1097.191	1097.451	1097.711	1097.971	1098.231	1098.491	1098.751	1099.011	1099.271	1099.531	1099.791	1100.051	1100.311	1100.571	1100.831	1101.091	1101.351	1101.611	1101.871	1102.131	1102.391	1102.651	1102.911	1103.171	1103.431	1103.691	1103.951	1104.211	1104.471	1104.731	1104.991	1105.251	1105.511	1105.771	1106.031	1106.291	1106.551	1106.811	1107.071	1107.331	1107.591	1107.851	1108.111	1108.371	1108.631	1108.891	1109.151	1109.411	1109.671	1109.931	1110.191	1110.451	1110.711	1110.971	1111.231	1111.491	1111.751	1112.011	1112.271	1112.531	1112.791	1113.051	1113.311	1113.571	1113.831	1114.091	1114.351	1114.611	1114.871	1115.131	1115.391	1115.651	1115.911	1116.171	1116.431	1116.691	1116.951	1117.211	1117.471	1117.731	1117.991	1118.251	1118.511	1118.771	1119.031	1119.291	1119.551	1119.811	1120.071	1120.331	1120.591	1120.851	1121.111	1121.371	1121.631	1121.891	1122.151	1122.411	1122.671	1122.931	1123.191	1123.451	1123.711	1123.971	1124.231	1124.491	1124.751	1125.011	1125.271	1125.531	1125.791	1126.051	1126.311	1126.571	1126.831	1127.091	1127.351	1127.611	1127.871	1128.131	1128.391	1128.651	1128.911	1129.171	1129.431	1129.691	1129.951	1130.211	1130.471	1130.731	1130.991	1131.251	1131.511	1131.771	1132.031	1132.291	1132.551	1132.811	1133.071	1133.331	1133.591	1133.851	1134.111	1134.371	1134.631	1134.891	1135.151	1135.411	1135.671	1135.931	1136.191	1136.451	1136.711	1136.971	1137.231	1137.491	1137.751	1138.011	1138.271	1138.531	1138.791	1139.051	1139.311	1139.571	1139.831	1140.091	1140.351	1140.611	1140.871	1141.131	1141.391	1141.651	1141.911	1142.171	1142.431	1142.691	1142.951	1143.211	1143.471	1143.731	1143.991	1144.251	1144.511	1144.771	1145.031	1145.291	1145.551	1145.811	1146.071	1146.331	1146.591	1146.851	1147.111	1147.371	1147.631	1147.891	1148.151	1148.411	1148.671	1148.931	1149.191	1149.451	1149.711	1149.971	1150.231	1150.491	1150.751	1151.011	1151.271	1151.531	1151.791	1152.051	1152.311	1152.571	1152.831	1153.091	1153.351	1153.611	1153.871	1154.131	1154.391	1154.651	1154.911	1155.171	1155.431	1155.691	1155.951	1156.211	1156.471	1156.731	1156.991	1157.251	1157.511	1157.771	1158.031	1158.291	1158.551	1158.811	1159.071	1159.331	1159.591	1159.851	1160.111	1160.371	1160.631	1160.891	1161.151	1161.411	1161.671	1161.931	1162.191	1162.451	1162.711	1162.971	1163.231	1163.491	1163.751	1164.011	1164.271	1164.531	1164.791	1165.051	1165.311	1165.571	1165.831	1166.091	1166.351	1166.611	1166.871	1167.131	1167.391	1167.651	1167.911	1168.171	1168.431	1168.691	1168.951	1169.211	1169.471	1169.731	1169.991	1170.251	1170.511	1170.771	1171.031	1171.291	1171.551	1171.811	1172.071	1172.331	1172.591	1172.851	1173.111	1173.371	1173.631	1173.891	1174.151	1174.411	1174.671	1174.931	1175.191	1175.451	1175.711	1175.971	1176.231	1176.491	1176.751	1177.011	1177.271	1177.531	1177.791	1178.051	1178.311	1178.571	1178.831	1179.091	1179.351	1179.611	1179.871	1180.131	1180.391	1180.651	1180.911	1181.171	1181.431	1181.691	1181.951	1182.211	1182.471	1182.731	1182.991	1183.251	1183.511	1183.771	1184.031	1184.291	1184.551	1184.811	1185.071	1185.331	1185.591	1185.851	1186.111	1186.371	1186.631	1186.891	1187.151	1187.411	1187.671	1187.931	1188.191	1188.451	1188.711	1188.971	1189.231	1189.491	1189.751	1190.011	1190.271	1190.531	1190.791	1191.051	1191.311	1191.571	1191.831	1192.091	1192.351	1192.611	1192.871	1193.131	1193.391	1193.651	1193.911	1194.171	1194.431	1194.691	1194.951	1195.211	1195.471	1195.731	1195.991	1196.251	1196.511	1196.771	1197.031	1197.291	1197.551	1197.811	1198.071	1198.331	1198.591	1198.851	1199.111	1199.371	1199.631	1199.891	1200.151	1200.411	1200.671	1200.931	1201.191	1201.451	1201.711	1201.971	1202.231	1202.491	1202.751	1203.011	1203.271	1203.531	1203.791	1204.051	1204.311	1204.571	1204.831	1205.091	1205.351	1205.611	1205.871	1206.131	1206.391	1206.651	1206.911	1207.171	1207.431	1207.691	1207.951	1208.211	1208.471	1208.731	1208.991	1209.251	1209.511	1209.771	1210.031	1210.291	1210.551	1210.811	1211.071	1211.331	1211.591	1211.851	1212.111	1212.371	1212.631	1212.891	1213.151	1213.411	1213.671	1213.931	1214.191	1214.451	1214.711	1214.971	1215.231	1215.491	1215.751	1216.011	1216.271	1216.531	1216.791	1217.051	1217.311	1217.571	1217.831	1218.091	1218.351	1218.611	1218.871	1219.131	1219.391	1219.651	1219.911	1220.171	1220.431	1220.691	1220.951	1221.211	1221.471	1221.731	1221.991	1222.251	1222.511	1222.771	1223.031	1223.291	1223.551	1223.811	1224.071	1224.331	1224.591	1224.851	1225.111	1225.371	1225.631	1225.891	1226.151	1226.411	1226.671	1226.931	1227.191	1227.451	1227.711	1227.971	1228.231	1228.491	1228.751	1229.011	1229.271	1229.531	1229.791	1230.051	1230.311	1230.571	1230.831	1231.091	1231.351	1231.611	1231.871	1232.131	1232.391	1232.651	1232.911	1233.171	1233.431	1233.691	1233.951	1234.211	1234.471	1234.731	1234.991	1235.251	1235.511	1235.771	1236.031	1236.291	1236.551	1236.811	1237.071	1237.331	1237.591	1237.851	1238.111	1238.371	1238.631	1238.891	1239.151	1239.411	1239.671	1239.931	1240.191	1240.451	1240.711	1240.971	1241.231	1241.491	1241.751	1242.011	1242.271	1242.531	1242.791	1243.051	1243.311	1243.571	1243.831	1244.091	1244.351	1244.611	1244.871	1245.131	1245.391	1245.651	1245.911	1246.171	1246.431	1246.691	1246.951	1247.211	1247.471	1247.731	1247.991	1248.251	1248.511	1248.771	1249.031	1249.291	1249.551	1249.811	1250.071	1250.331	1250.591	1250.851	1251.111	1251.371	1251.631	1251.891	1252.151	1252.411	1252.671	1252.931	1253.191	1253.451	1253.711	1253.971	1254.231	1254.491	1254.751	1255.011	1255.271	1255.531	1255.791	1256.051	1256.311	1256.571	1256.831	1257.091	1257.351	1257.611	1257.871	1258.131	1258.391	1258.651	1258.911	1259.171	1259.431	1259.691	1259.951	1260.211	1260.471	1260.731	1260.991	1261.251	1261.511	1261.771	1262.031	1262.291	1262.551	1262.811	1263.071	1263.331	1263.591	1263.851	1264.111	1264.371	1264.631	1264.891	1265.151	1265.411	1265.671	1265.931	1266.191	1266.451	1266.711	1266.971	1267.231	1267.491	1267.751	1268.011	1268.271	1268.531	1268.791	1269.051	1269.311	1269.571	1269.831	1270.091	1270.351	1270.611	1270.871	1271.131	1271.391	1271.651	1271.911	1272.171	1272.431	1272.691	1272.951	1273.211	1273.471	1273.731	1273.991	1274.251	1274.511	1274.771	1275.031	1275.291	1275.551	1275.811	1276.071	1276.331	1276.591	1276.851	1277.111	1277.371	1277.631	1277.891	1278.151	1278.411	1278.671	1278.931	1279.191	1279.451	1279.711	1279.971	1280.231	1280.491	1280.751	1281.011	1281.271	1281.531	1281.7
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Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:	Design Consultant:	Project :	Design By : RK	Title:
					Proposed Center line	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities In Respect of "Widening And Up-Gradaation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK	Rhenock To Rongli Bazaar Plan From Km-05+000 To Km-06+000
					Proposed Carriageway				Checked By : AH	
					Proposed Paved Shoulder				Approved By : VY	Dwg No: XPL/DSD/SKM/P&P/KM15.3/11
					Proposed Earthen Shoulder				Scale : 1/2000(H)	Sheet : 01 OF 02
					Utility				Date : Dec-2024	
					Drain					
					Retaining Wall					
					Breast wall					
					Slope Protection					





Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation
					Proposed Center line
					Proposed Carriageway
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					Utility
					Drain
					Retaining Wall
					Breast wall
					Slope Protection

Client:
National Highway & Infrastructure Development Corp. Ltd.
(NHIDCL)

1st & 2nd Floor,Tower A,
World Trade Centre,
Nauroji Nagar,
New Delhi – 110029

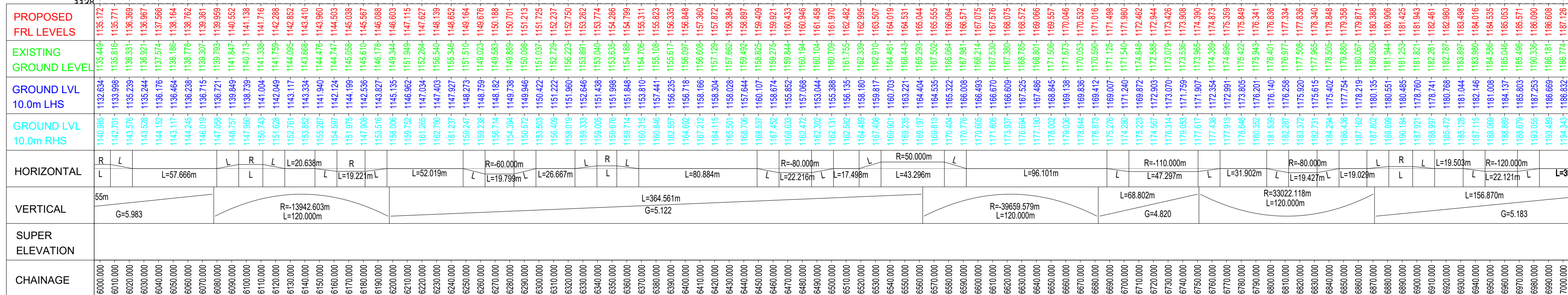
Design Consultant:

Xplorer Consultancy Services Pvt. Ltd.
in joint venture Dsd Infratech Management
Pvt. Ltd, in Association With Maverick
Mernok & Construction
511, Tower b, ithum, plot-A40
Sector-62, Noida
Uttar Pradesh – 201301

Project :

Consultancy Services For Preparation Of DPR And Providing
Services For Pre-Construction Activities in Respect of
“Widening And Up-Gradation Of Existing Carriageway into
2L+PS Configuration From Reshi(Km 96.254)
. To Rhenock (Km 101.554) Along NH-717A & From
Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300)
Along NH-717B in the States Of Sikkim”.

Design By : RK	Title: Rhenock To Rongli Bazaar Plan From Km-06+000 To Km-07+000	
Drawn By : MK		
Checked By : AH		
Approved By : VY	Dwg No: XPL/DSD/SKM/P&P/KM15.3/13	
Scale : 1/2000(H)	Sheet : 01 OF 02	Date : Dec-2024



Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation
					Proposed Center line
					Proposed Carriageway
					Proposed Paved Shoulder
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Client:
National Highway & Infrastructure Development Corp. Ltd.
(NHIDCL)

1st & 2nd Floor,Tower A,
World Trade Centre,
Nauroji Nagar,
New Delhi – 110029

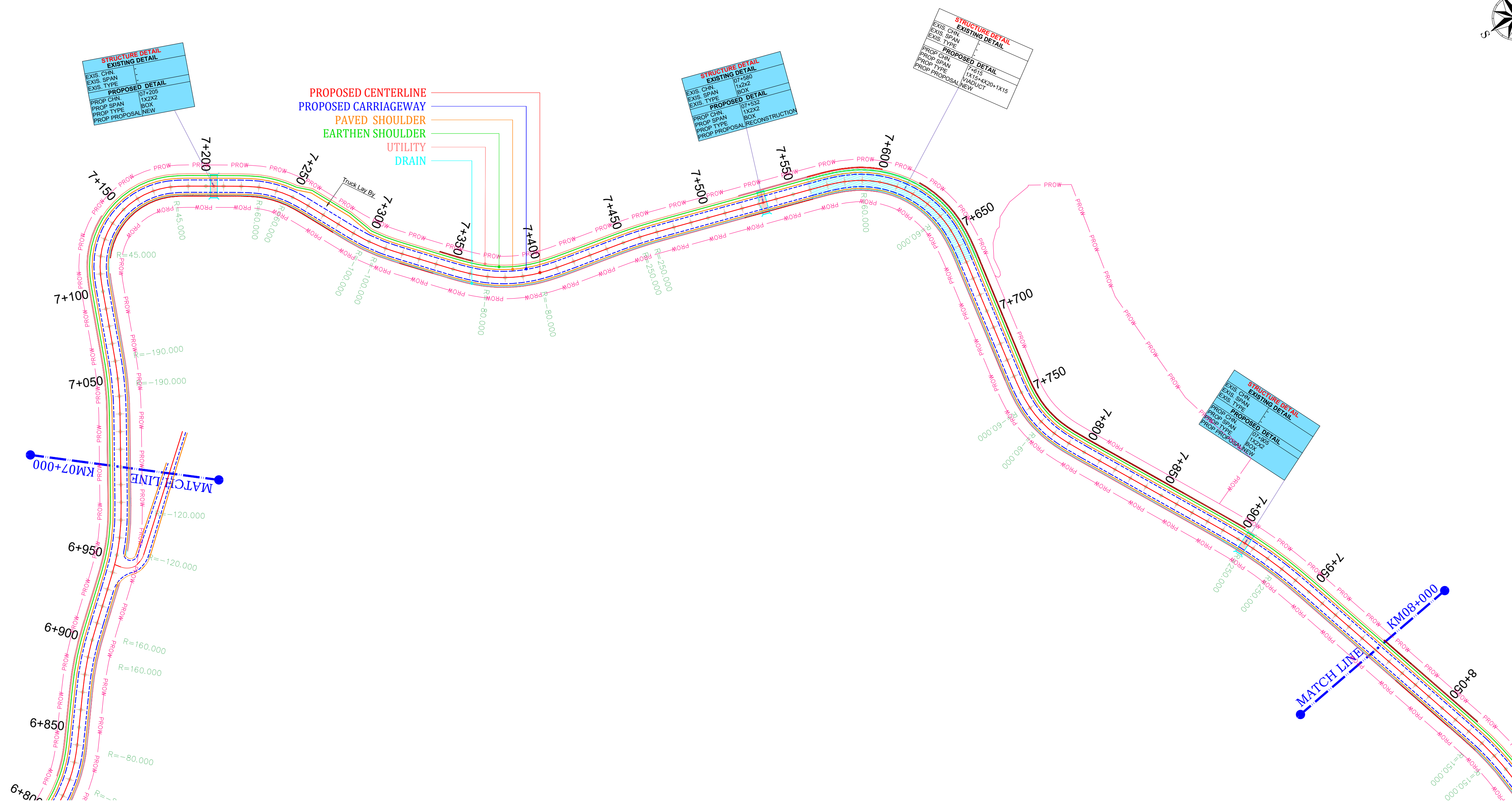
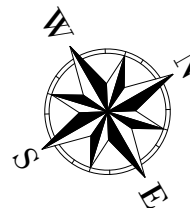
Design Consultant:

Xplorer Consultancy Services Pvt. Ltd.
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Pvt. Ltd, in Association With Maverick
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511, Tower B, iThum, plot-A40
Sector-62, Noida
Uttar Pradesh – 201301

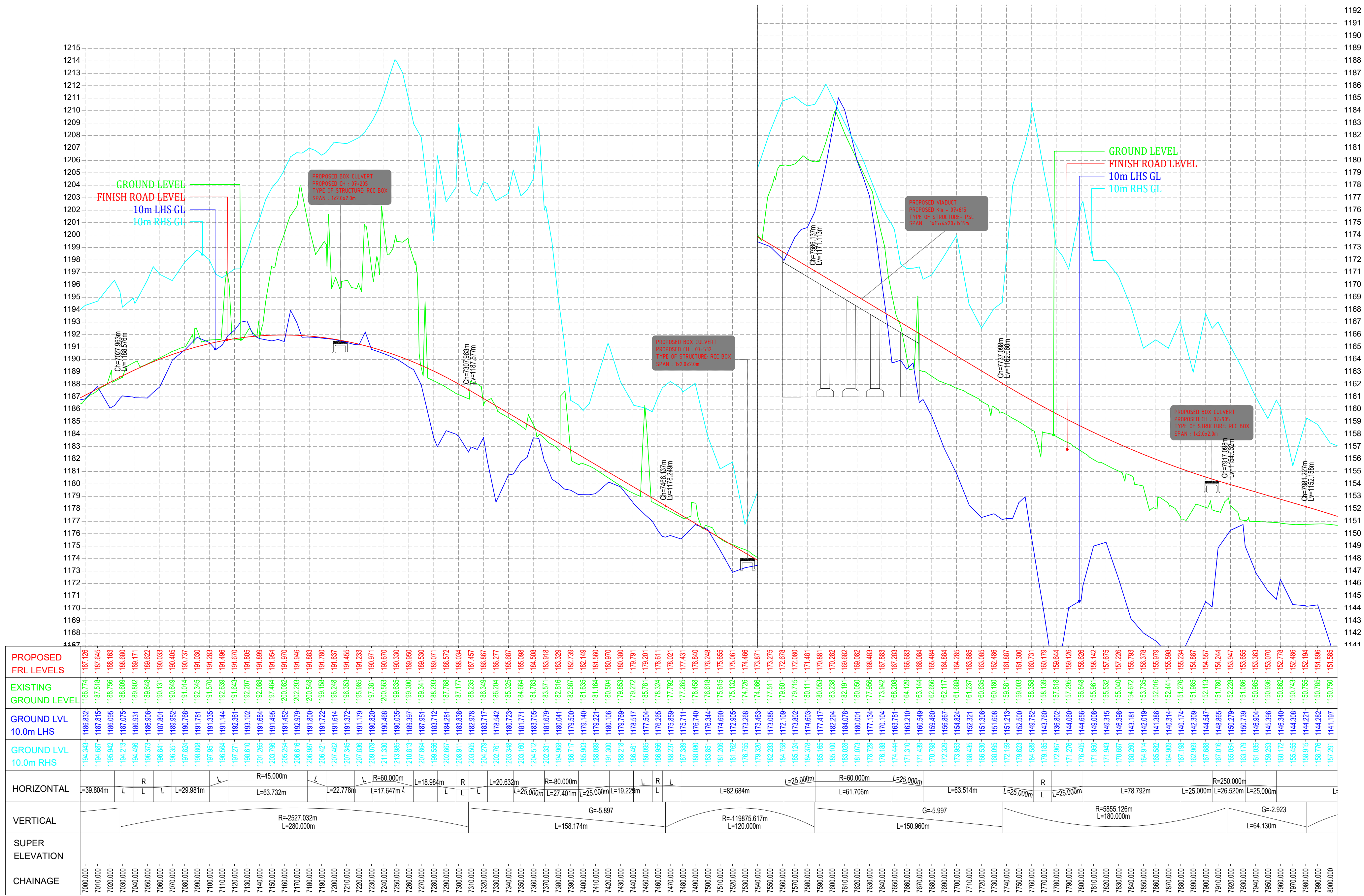
Project :

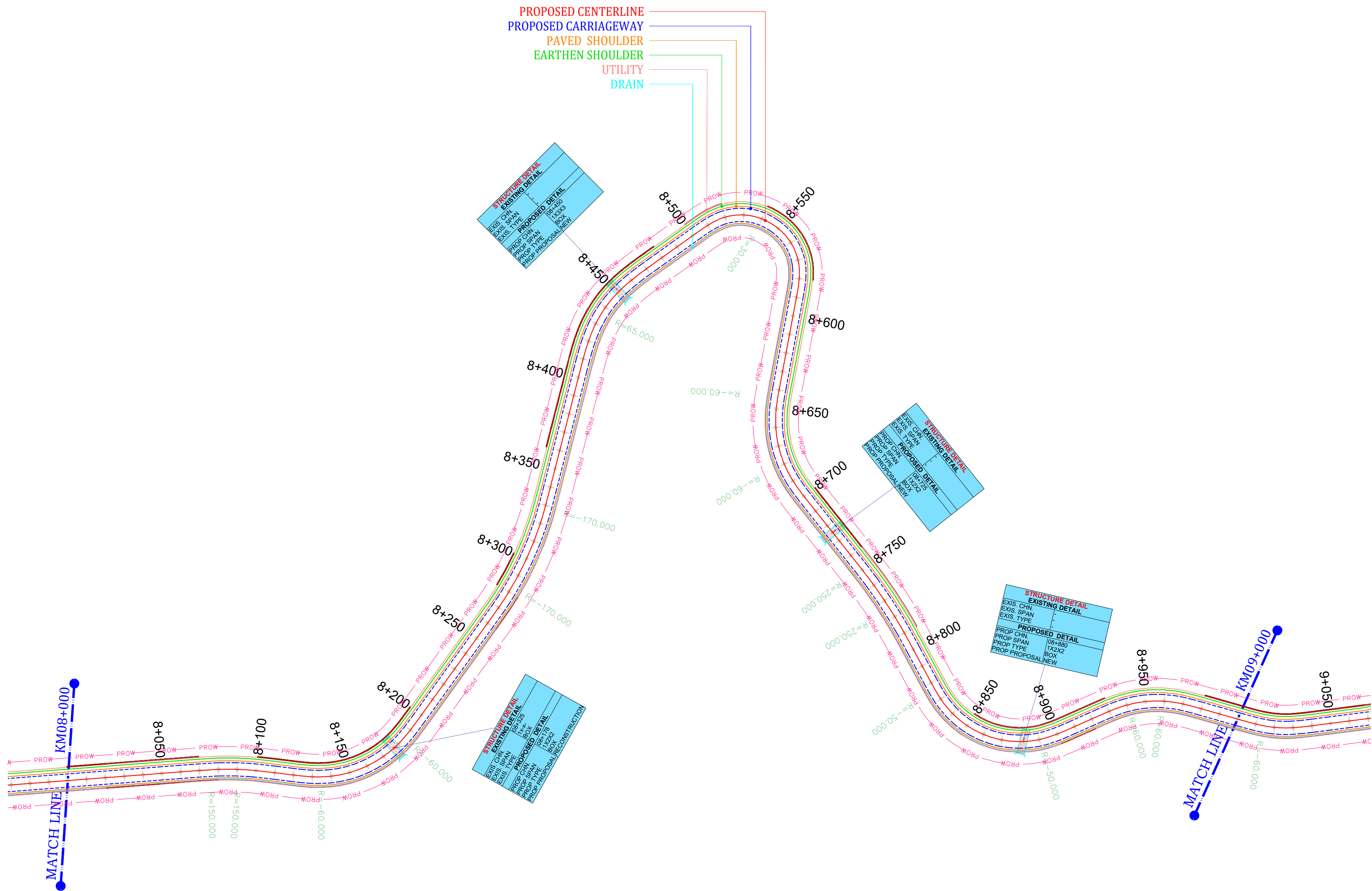
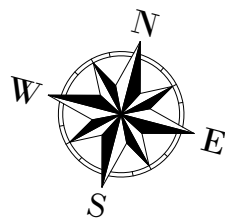
Consultancy Services For Preparation Of DPR And Providing
Services For Pre-Construction Activities in Respect of
“Widening And Up-Gradation Of Existing Carriageway into
2L+PS Configuration From Reshi(Km 96.254)
. To Rhenock (Km 101.554) Along NH-717A & From
Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300)
Along NH-717B in the States Of Sikkim”.

Design By : RK		Title: Rhenock To Rongli Bazaar Profile From Km-06+000 To Km-07+000	
Drawn By : MK			
Checked By : AH			
Approved By : VY		Dwg No: XPL/DSD/SKM/P&P/KM15.3/14	
Scale : 1/2000(H) & 1/200(V)		Sheet : 02 OF 02	Date : Dec-2024

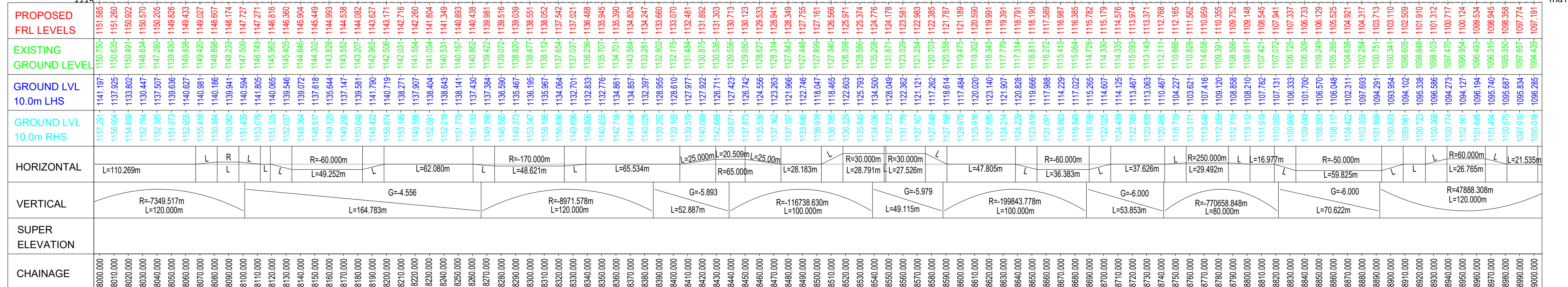


Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:	Design Consultant:	Project :	Design By : RK	Title:					
					Proposed Center line	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities In Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : MK	Rhenock To Rongli Bazaar Plan From Km-07+000 To Km-08+000					
				Proposed Carriageway	Checked By : AH										
				Proposed Paved Shoulder	Approved By : VY										
					Proposed Earthen Shoulder							Dwg No: XPL/DSD/SKM/P&P/KM15.3/15			
					Utility							Scale : 1/2000(H)	Sheet : 01 OF 02	Date : Dec-2024	
					Drain										
					Retaining Wall										
					Breast wall										
					Slope Protection										





Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Design By : RK	Title: Rhenock To Rongli Bazaar Plan From Km-08+000 To Km-09+000
					Proposed Center line				Drawn By : MK	
					Proposed Carriageway				Checked By : AH	
					Proposed Paved Shoulder				Approved By : VY	Dwg No: XPL/DSD/SKM/P&P/KM15.3/17
					Proposed Earthen Shoulder				Scale : 1/2000(H)	Sheet : 01 OF 02
					Utility					Date : Dec-2024
					Drain					
					Retaining Wall					
					Breast wall					
					Slope Protection					



Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation
					Proposed Center line
					Proposed Carriageway
					Proposed Paved Shoulder
					Proposed Earthen Shoulder
					Utility
					Drain
					Retaining Wall
					Breast wall
					Slope Protection

Client:
National Highway & Infrastructure Development Corp. Ltd.
(NHIDCL)

1st & 2nd Floor,Tower A,
World Trade Centre,
Nauroji Nagar,
New Delhi – 110029

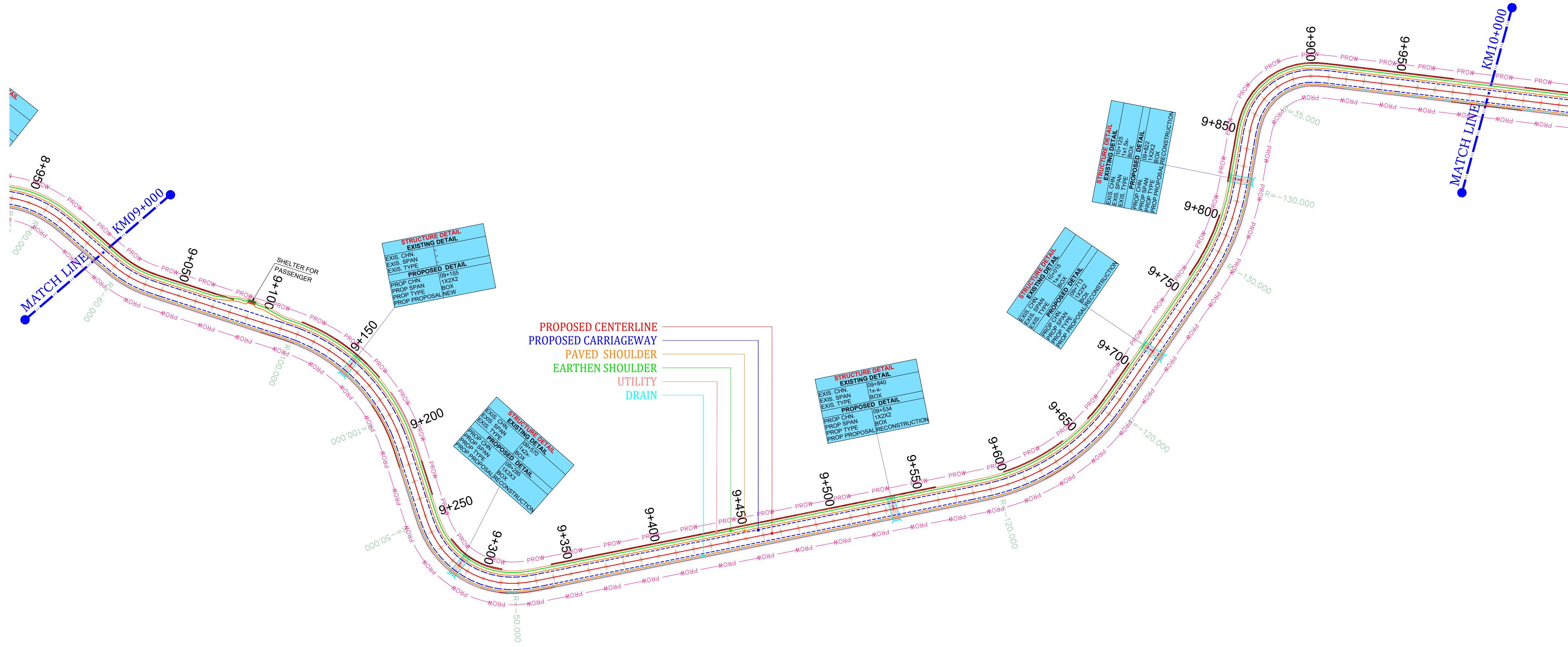
Design Consultant:

Xplorer Consultancy Services Pvt. Ltd.
in joint venture Dsd Infratech Management
Pvt. Ltd, in Association With Maverick
Mernok & Construction
511, Tower B, ithum, plot-A40
Sector-62, Noida
Uttar Pradesh – 201301

Project :

Consultancy Services For Preparation Of DPR And Providing
Services For Pre-Construction Activities in Respect of
“Widening And Up-Gradation Of Existing Carriageway into
2L+PS Configuration From Reshi(Km 96.254)
. To Rhenock (Km 101.554) Along NH-717A & From
Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300)
Along NH-717B in the States Of Sikkim”.

Design By : RK		Title: Rhenock To Rongli Bazaar Profile From Km-08+000 To Km-09+000	
Drawn By : MK			
Checked By : AH			
Approved By : VY		Dwg No: XPL/DSD/SKM/P&P/KM15.3/18	
Scale : 1/2000(H) & 1/200(V)		Sheet : 02 OF 02	Date : Dec-2024



PROPOSED CENTERLINE
PROPOSED CARRIAGEWAY
PAVED SHOULDER
EARTHEN SHOULDER
UTILITY
DRAIN

STRUCTURE DETAIL	
EXISTING DETAIL	
EXIS. CHN.	
EXIS. SPAN	
EXIS. TYPE	
PROPOSED DETAIL	
PROP. CHN.	09+155
PROP. SPAN	BOX
PROP. TYPE	
PROP. PROPOSAL	NEW

STRUCTURE DETAIL	
EXISTING DETAIL	
EXIS. CHN.	
EXIS. SPAN	
EXIS. TYPE	
PROPOSED DETAIL	
PROP. CHN.	09+310
PROP. SPAN	BOX
PROP. TYPE	
PROP. PROPOSAL	RECONSTRUCTION

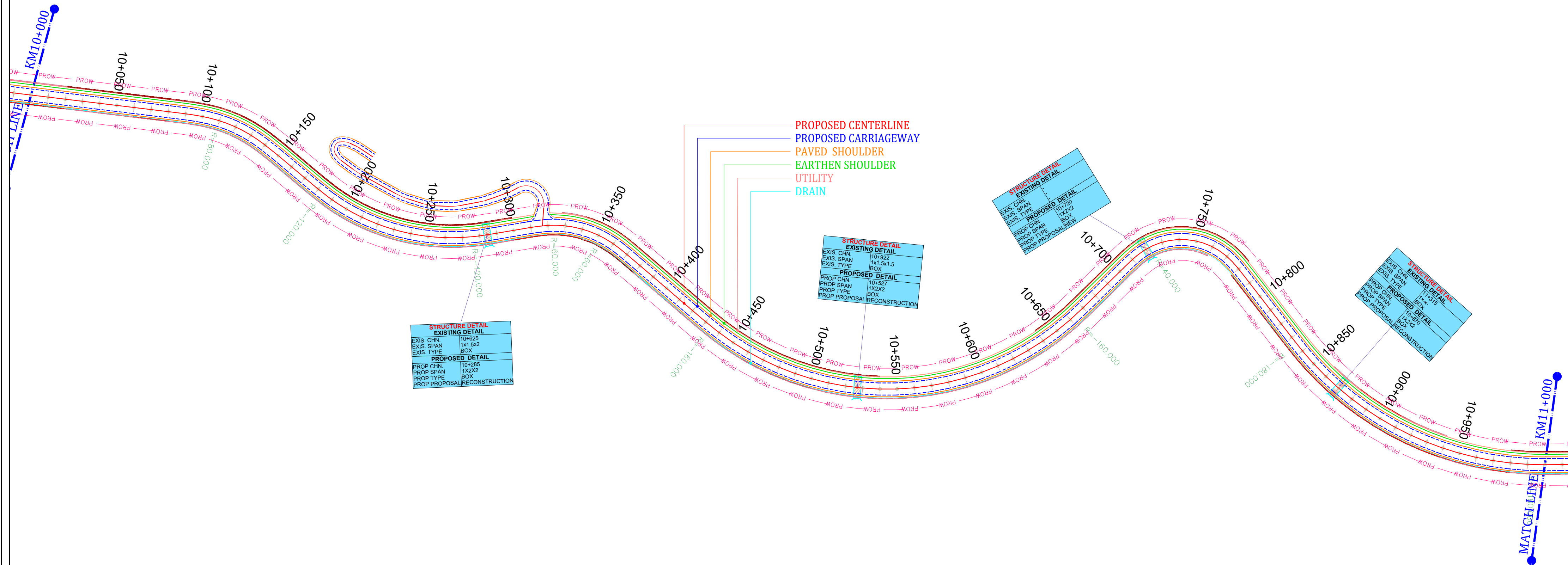
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EXISTING DETAIL	
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EXIS. SPAN	1x-x
EXIS. TYPE	BOX
PROPOSED DETAIL	
PROP. CHN.	09+534
PROP. SPAN	1X2X2
PROP. TYPE	
PROP. PROPOSAL	RECONSTRUCTION

STRUCTURE DETAIL	
EXISTING DETAIL	
EXIS. CHN.	09+715
EXIS. SPAN	1x-x
EXIS. TYPE	BOX
PROPOSED DETAIL	
PROP. CHN.	09+715
PROP. SPAN	1X2X2
PROP. TYPE	
PROP. PROPOSAL	RECONSTRUCTION

STRUCTURE DETAIL	
EXISTING DETAIL	
EXIS. CHN.	09+825
EXIS. SPAN	1x1.5
EXIS. TYPE	BOX
PROPOSED DETAIL	
PROP. CHN.	09+822
PROP. SPAN	1X2X2
PROP. TYPE	
PROP. PROPOSAL	RECONSTRUCTION

Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities In Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Design By : RK	Title: Rhenock To Rongli Bazaar Plan From Km-09+000 To Km-10+000					
									Drawn By : MK						
									Checked By : AH						
												Approved By : VY	Dwg No: XPL/DSD/SKM/P&P/KM15.3/19		
												Scale : 1/2000(H)		Sheet : 01 OF 02	Date : Dec-2024

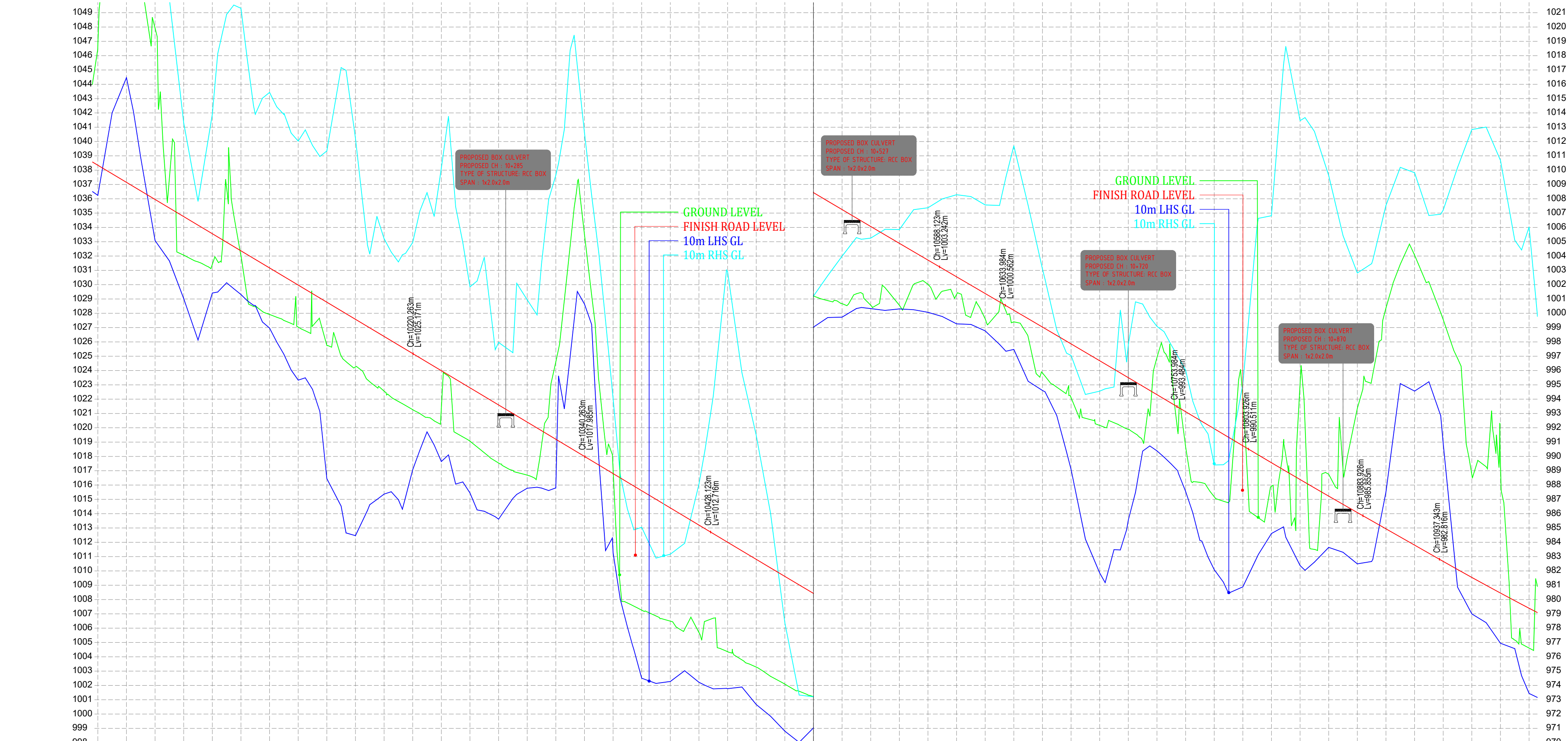




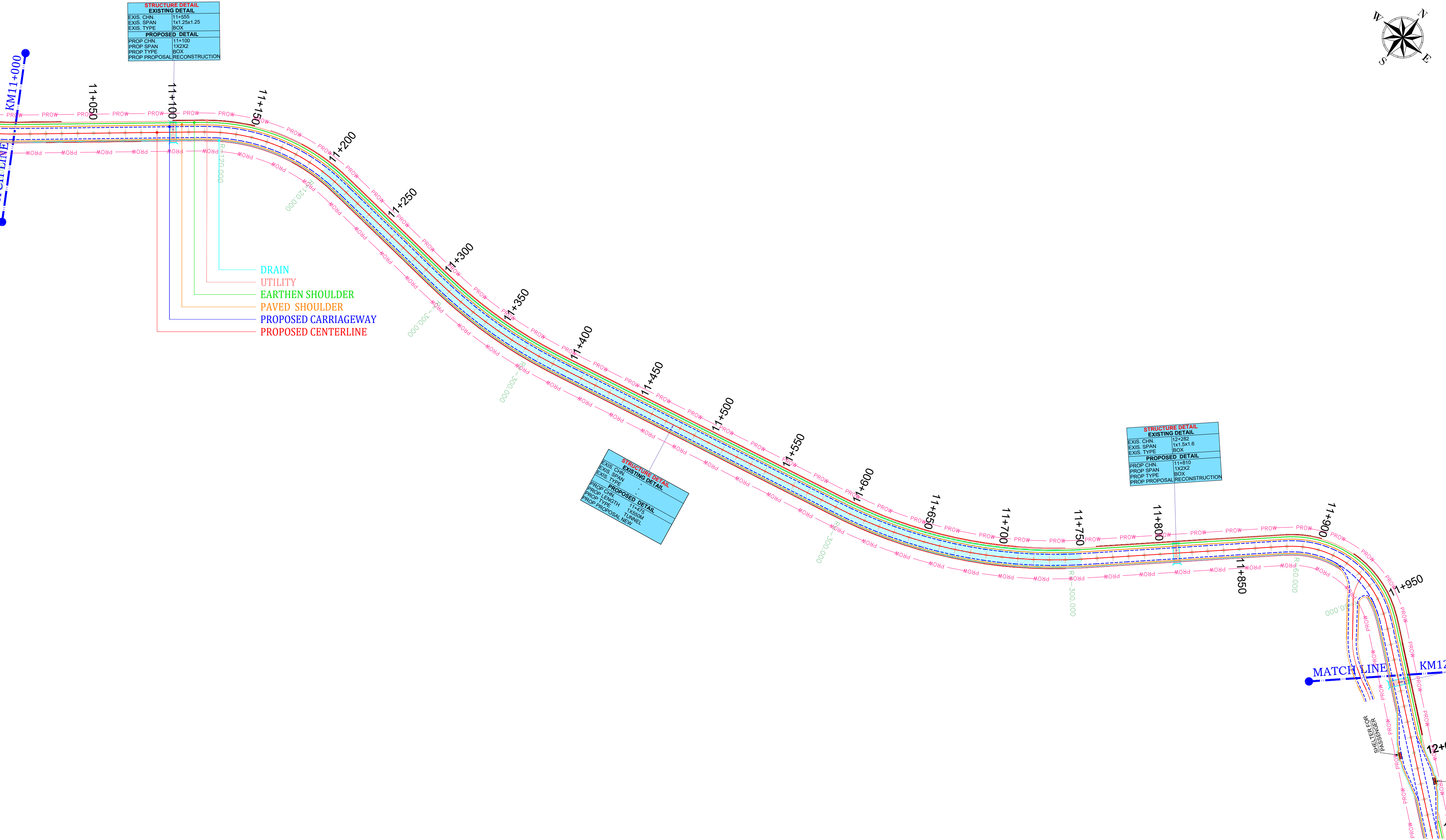
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction  511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Design By : RK	Title: Rhenock To Rongli Bazaar Plan From Km-10+000 To Km-11+000
									Drawn By : MK	
									Checked By : AH	
									Approved By : VY	Dwg No: XPL/DSD/SKM/P&P/KM15.3/21
									Scale : 1/2000(H)	Sheet : 01 OF 02 Date : Dec-2024

← TO RHENOCK (NH-717A)

TO RONGLI BAZAAR (NH-717B) →



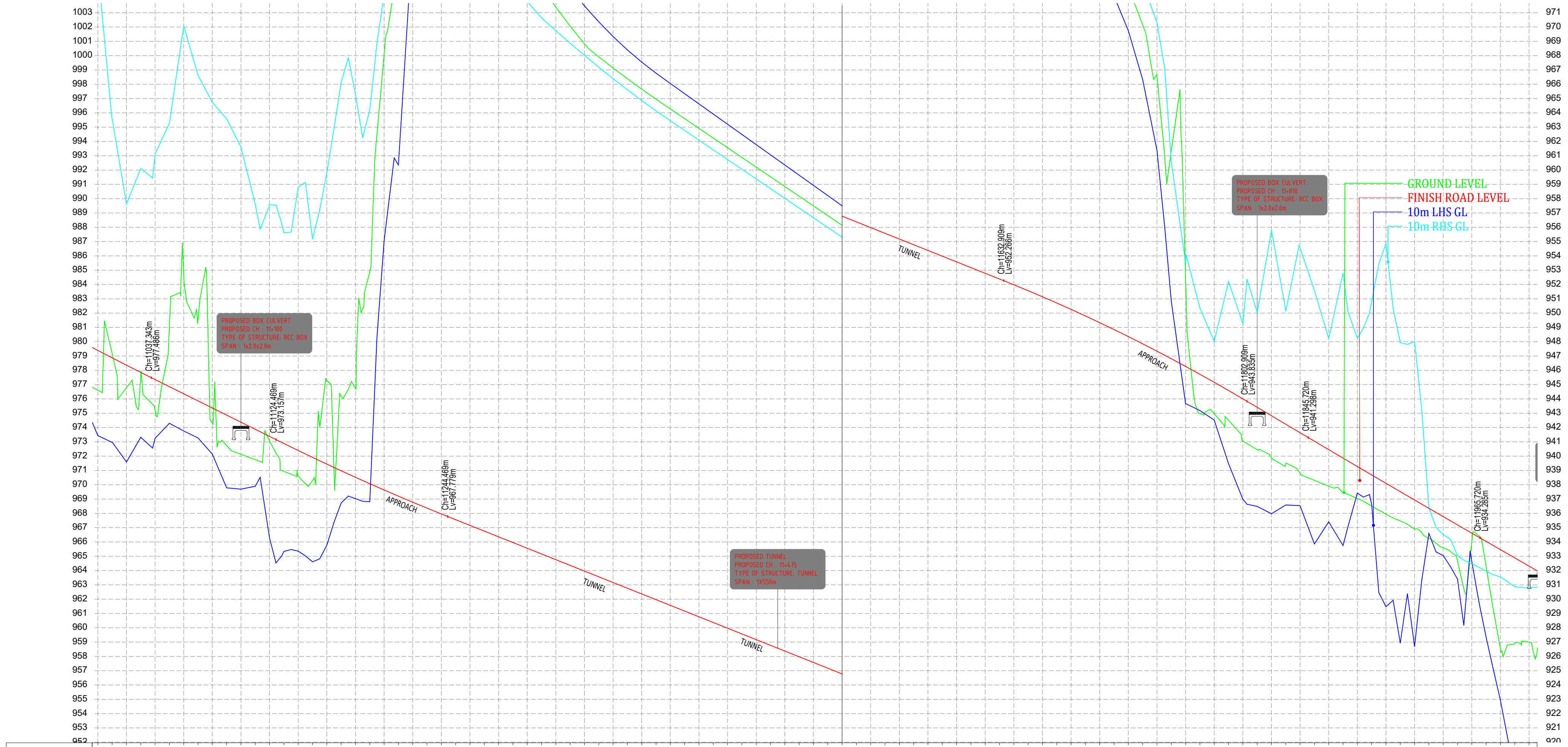
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LEVELS	1038.344	1037.746	1037.148	1036.550	1035.952	1035.354	1034.756	1034.158	1033.560	1032.962	1032.364	1031.766	1031.168	1030.570	1029.972	1029.374	1028.776	1028.177	1027.579	1026.981	1026.383	1025.785	1025.187	1024.589	1023.991	1023.392	1022.794	1022.195	1021.596	1020.997	1020.398	1019.799	1019.200	1018.600	1018.001	1017.401	1016.801	1016.201	1015.602	1015.002	1014.402	1013.803	1013.203	1012.603	1012.004	1011.406	1010.809	1010.213	1009.618	1009.023	1008.424	1007.827	1007.230	1006.633	1006.036	1005.439	1004.842	1004.245	1003.648	1003.051	1002.454	1001.857	1001.260	1000.663	1000.066	999.469	998.872	998.275	997.678	997.081	996.484	995.887	995.290	994.693	994.096	993.499	992.902	992.305	991.708	991.111	990.514	989.917	989.320	988.723	988.126	987.529	986.932	986.335	985.738	985.141	984.544	983.947	983.350	982.753	982.156	981.559	980.962	980.365	979.768	979.171	978.574	977.977	977.380	976.783	976.186	975.589	974.992	974.395	973.798	973.201	972.604	972.007	971.410	970.813	970.216	969.619	969.022	968.425	967.828	967.231	966.634	966.037	965.440	964.843	964.246	963.649	963.052	962.455	961.858	961.261	960.664	960.067	959.470	958.873	958.276	957.679	957.082	956.485	955.888	955.291	954.694	954.097	953.500	952.903	952.306	951.709	951.112	950.515	949.918	949.321	948.724	948.127	947.530	946.933	946.336	945.739	945.142	944.545	943.948	943.351	942.754	942.157	941.560	940.963	940.366	939.769	939.172	938.575	937.978	937.381	936.784	936.187	935.590	934.993	934.396	933.799	933.202	932.605	932.008	931.411	930.814	930.217	929.620	929.023	928.426	927.829	927.232	926.635	926.038	925.441	924.844	924.247	923.650	923.053	922.456	921.859	921.262	920.665	920.068	919.471	918.874	918.277	917.680	917.083	916.486	915.889	915.292	914.695	914.098	913.501	912.904	912.307	911.710	911.113	910.516	909.919	909.322	908.725	908.128	907.531	906.934	906.337	905.740	905.143	904.546	903.949	903.352	902.755	902.158	901.561	900.964	900.367	999.770	999.173	998.576	997.979	997.382	996.785	996.188	995.591	994.994	994.397	993.800	993.203	992.606	992.009	991.412	990.815	990.218	989.621	989.024	988.427	987.830	987.233	986.636	986.039	985.442	984.845	984.248	983.651	983.054	982.457	981.860	981.263	980.666	980.069	979.472	978.875	978.278	977.681	977.084	976.487	975.890	975.293	974.696	974.099	973.502	972.905	972.308	971.711	971.114	970.517	969.920	969.323	968.726	968.129	967.532	966.935	966.338	965.741	965.144	964.547	963.950	963.353	962.756	962.159	961.562	960.965	960.368	959.771	959.174	958.577	957.980	957.383	956.786	956.189	955.592	954.995	954.398	953.801	953.204	952.607	952.010	951.413	950.816	950.219	949.622	949.025	948.428	947.831	947.234	946.637	946.040	945.443	944.846	944.249	943.652	943.055	942.458	941.861	941.264	940.667	940.070	939.473	938.876	938.279	937.682	937.085	936.488	935.891	935.294	934.697	934.100	933.503	932.906	932.309	931.712	931.115	930.518	929.921	929.324	928.727	928.130	927.533	926.936	926.339	925.742	925.145	924.548	923.951	923.354	922.757	922.160	921.563	920.966	920.369	919.772	919.175	918.578	917.981	917.384	916.787	916.190	915.593	914.996	914.399	913.802	913.205	912.608	912.011	911.414	910.817	910.220	909.623	909.026	908.429	907.832	907.235	906.638	906.041	905.444	904.847	904.250	903.653	903.056	902.459	901.862	901.265	900.668	900.071	899.474	898.877	898.280	897.683	897.086	896.489	895.892	895.295	894.698	894.101	893.504	892.907	892.310	891.713	891.116	890.519	889.922	889.325	888.728	888.131	887.534	886.937	886.340	885.743	885.146	884.549	883.952	883.355	882.758	882.161	881.564	880.967	880.370	879.773	879.176	878.579	877.982	877.385	876.788	876.191	875.594	874.997	874.400	873.803	873.206	872.609	872.012	871.415	870.818	870.221	869.624	869.027	868.430	867.833	867.236	866.639	866.042	865.445	864.848	864.251	863.654	863.057	862.460	861.863	861.266	860.669	860.072	859.475	858.878	858.281	857.684	857.087	856.490	855.893	855.296	854.699	854.102	853.505	852.908	852.311	851.714	851.117	850.520	849.923	849.326	848.729	848.132	847.535	846.938	846.341	845.744	845.147	844.550	843.953	843.356	842.759	842.162	841.565	840.968	840.371	839.774	839.177	838.580	837.983	837.386	836.789	836.192	835.595	834.998	834.401	833.804	833.207	832.610	832.013	831.416	830.819	830.222	829.625	829.028	828.431	827.834	827.237	826.640	826.043	825.446	824.849	824.252	823.655	823.058	822.461	821.864	821.267	820.670	820.073	819.476	818.879	818.282	817.685	817.088	816.491	815.894	815.297	814.700	814.103	813.506	812.909	812.312	811.715	811.118	810.521	809.924	809.327	808.730	808.133	807.536	806.939	806.342	805.745	805.148	804.551	803.954	803.357	802.760	802.163	801.566	800.969	800.372	799.775	799.178	798.581	797.984	797.387	796.790	796.193	795.596	794.999	794.402	793.805	793.208	792.611	792.014	791.417	790.820	790.223	789.626	789.029	788.432	787.835	787.238	786.641	786.044	785.447	784.850	784.253	783.656	783.059	782.462	781.865	781.268	780.671	780.074	779.477	778.880	778.283	777.686	777.089	776.492	775.895	775.298	774.701	774.104	773.507	772.910	772.313	771.716	771.119	770.522	769.925	769.328	768.731	768.134	767.537	766.940	766.343	765.746	765.149	764.552	763.955	763.358	762.761	762.164	761.567	760.970	760.373	759.776	759.179	758.582	757.985	757.388	756.791	756.194	755.597	754.999	754.402	753.805	753.208	752.611	752.014	751.417	750.820	750.223	749.626	749.029	748.432	747.835	747.238	746.641	746.044	745.447	744.850	744.253	743.656	743.059	742.462	741.865	741.268	740.671	740.074	739.477	738.880	738.283	737.686	737.089	736.492	735.895	735.298	734.701	734.104	733.507	732.910	732.313	731.716	731.119	730.522	729.925	729.328	728.731	728.134	727.537	726.940	726.343	725.746	725.149	724.552	723.955	723.358	722.761	722.164	721.567	720.970	720.373	719.776	719.179	718.582	717.985	717.388	716.791	716.194	715.597	714.999	714.402	713.805	713.208	712.611	712.014	711.417	710.820	710.223	709.626	709.029	708.432	707.835	707.238	706.641	706.044	705.447	704.850	704.253	703.656	703.059	702.462	701.865	701.268	700.671	700.074	699.477	698.880	698.283	697.686	697.089	696.492	695.895	695.298	694.701	694.104	693.507	692.910	692.313	691.716	691.119	690.522	689.925	689.328	688.731	688.134	687.537	686.940	686.343	685.746	685.149	684.552	683.955	683.358	682.761	682.164	681.567	680.970	680.373	679.776	679.179	678.582	677.985	677.388	676.791	676.194	675.597	674.999	674.402	673.805	673.208	672.611	672.014	671.417	670.820	670.223	669.626	669.029	668.432	667.835	667.238	666.641	666.044	665.447	664.850	664.253	663.656	663.059	662.462	661.865	661.268	660.671	660.074	659.477	658.880	658.283	657.686	657.089	656.492	655.895	655.298	654.701	654.104	653.507	652.910	652.313	651.716	651.119	650.522	649.925	649.328	648.731	648.134	647.537	646.940	646.343	645.746	645.149	644.552	643.955	643.358	642.761	642.164	641.567	640.970	640.373	639.776	639.179	638.582	637.985	637.388	636.791	636.194	635.597	634.999	634.402	633.805	633.208	632.611	632.014	631.417	630.820	630.223	629.626	629.029	628.432	627.835	627.238	626.641	626.044	625.447	624.850	624.253	623.656	623.059	622.462	621.865	621.268	620.671	620.074	619.477	618.880	618.283	617.686	617.089	616.492	615.895	615.298	614.701	614.104	613.507	612.910	612.313	611.716	611.119	610.522	609.925	609.328	608.731	608.134	607.537	606.940	606.343	605.746	605.149	604.552	603.955	603.358	602.761	602.164	601.567	600.970	600.373	599.776	599.179	598.582	597.985	597.388	596.791	596.194	595.597	594.999	594.402	593.805	593.208	592.611	592.014	591.417	590.820	590.223	589.626	589.029	588.432	587.835	587.238	586.641	586.044	585.447	584.850	584.253	583.656	583.059	582.462	581.865	581.268	580.671	580.074	579.477	578.880	578.283	577.686	577.089	576.492	575.895	575.298	574.701	574.104	573.507	572.910	572.313	571.716	571.119	570.522	569.925	569.328	568.731	568.134	567.537	566.940	566.343	565.746	565.149	564.552	563.955	563.358	562.761	562.164	561.567	560.970	560.373	559.776	559.179	558.582	557.985	557.388	556.791	556.194	555.597	554.999	554.402	553.805	553.208	552.611	552.014	551.417	550.820	550.223	549.626	549.029	548.432	547.835	547.238	546.641	546.044	545.447	544.850	544.253	543.656	543.059	542.462	541.865	541.268	540.671	540.074	539.477	538.880	538.283	537.686	537.089	536.4
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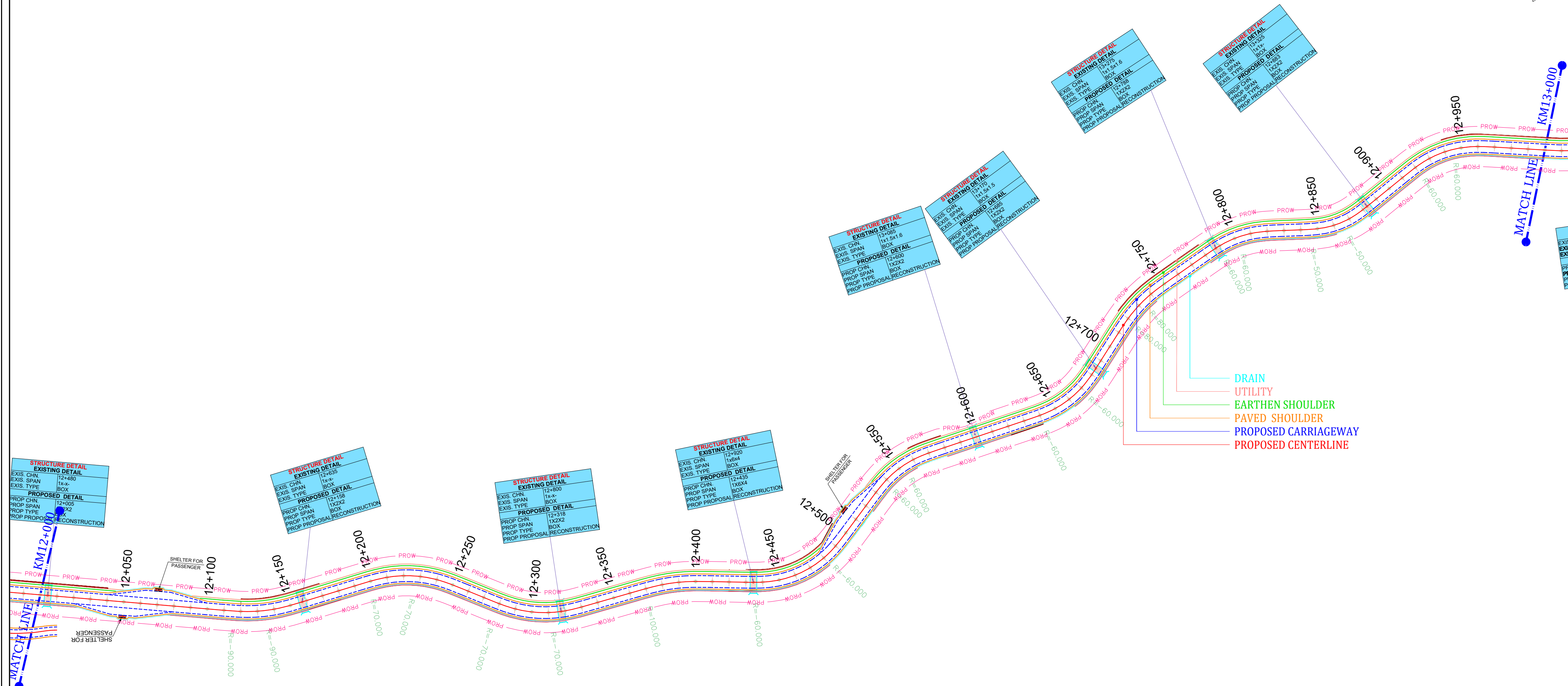
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)  1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Design Consultant:  Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Design By : RK	Title: Rhenock To Rongli Bazaar Plan From Km-11+000 To Km-12+000
									Drawn By : MK	
									Checked By : AH	
									Approved By : VY	Dwg No: XPL/DSD/SKM/P&P/KM15.3/23
									Scale : 1/2000(H)	Sheet : 01 OF 02 Date : Dec-2024

← TO RHENOCK (NH-717A)

TO RONGLI BAZAAR (NH-717B) →



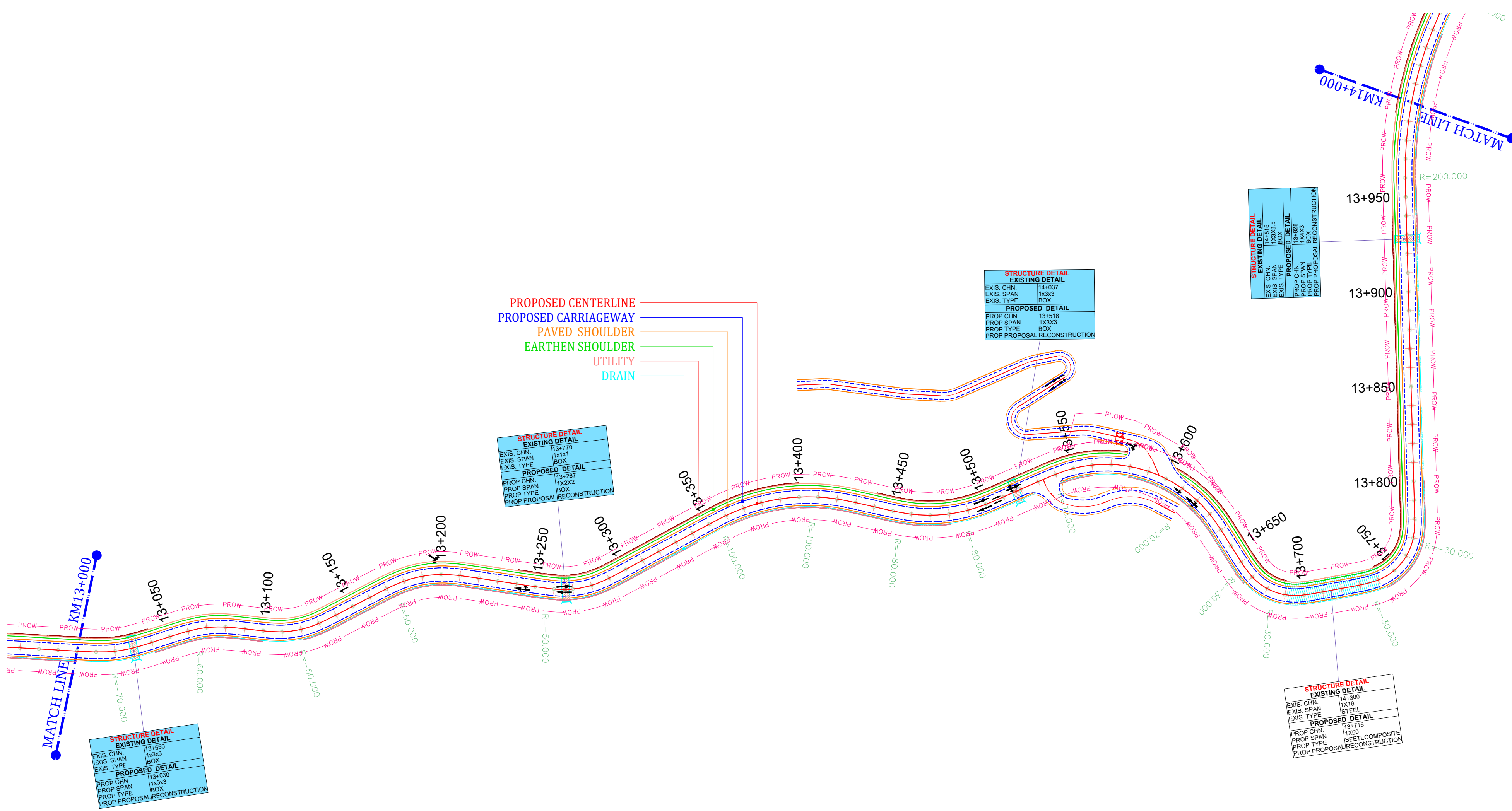
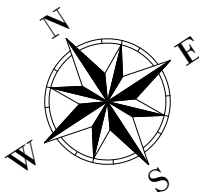
PROPOSED FRL LEVELS	979.392	978.572	978.359	977.653	977.354	976.657	976.360	975.663	975.366	974.669	974.372	973.676	973.379	972.683	972.386	971.689	971.392	970.695	970.398	970.101	969.404	969.107	968.410	968.113	967.416	967.119	966.422	966.125	965.428	965.131	964.434	964.137	963.440	963.143	962.446	962.149	961.452	961.155	960.458	960.161	959.464	959.167	958.470	958.173	957.476	957.179	956.482	956.185	955.488	955.191	954.494	954.197	953.500	953.203	952.506	952.209	951.512	951.215	950.518	950.221	949.524	949.227	948.530	948.233	947.536	947.239	946.542	946.245	945.548	945.251	944.554	944.257	943.560	943.263	942.566	942.269	941.572	941.275	940.578	940.281	939.584	939.287	938.590	938.293	937.596	937.299	936.602	936.305	935.608	935.311	934.614	934.317	933.620	933.323	932.626	932.329	931.632	931.335	930.638	930.341	929.644	929.347	928.650	928.353	927.656	927.359	926.662	926.365	925.668	925.371	924.674	924.377	923.680	923.383	922.686	922.389	921.692	921.395	920.698	920.401	919.704	919.407	918.710	918.413	917.716	917.419	916.722	916.425	915.728	915.431	914.734	914.437	913.740	913.443	912.746	912.449	911.752	911.455	910.758	910.461	909.764	909.467	908.770	908.473	907.776	907.479	906.782	906.485	905.788	905.491	904.794	904.497	903.800	903.503	902.806	902.509	901.812	901.515	900.818	900.521	899.824	899.527	898.830	898.533	897.836	897.539	896.842	896.545	895.848	895.551	894.854	894.557	893.860	893.563	892.866	892.569	891.872	891.575	890.878	890.581	889.884	889.587	888.890	888.593	887.896	887.599	886.902	886.605	885.908	885.611	884.914	884.617	883.920	883.623	882.926	882.629	881.932	881.635	880.938	880.641	879.944	879.647	878.950	878.653	877.956	877.659	876.962	876.665	875.968	875.671	874.974	874.677	873.980	873.683	872.986	872.689	871.992	871.695	870.998	870.701	870.004	869.707	869.010	868.713	868.416	867.719	867.422	866.725	866.428	865.731	865.434	864.737	864.440	863.743	863.446	862.749	862.452	861.755	861.458	860.761	860.464	859.767	859.470	858.773	858.476	857.779	857.482	856.785	856.488	855.791	855.494	854.797	854.500	853.803	853.506	852.809	852.512	851.815	851.518	850.821	850.524	849.827	849.530	848.833	848.536	847.839	847.542	846.845	846.548	845.851	845.554	844.857	844.560	843.863	843.566	842.869	842.572	841.875	841.578	840.881	840.584	839.887	839.590	838.893	838.596	837.899	837.602	836.905	836.608	835.911	835.614	834.917	834.620	833.923	833.626	832.929	832.632	831.935	831.638	830.941	830.644	829.947	829.650	828.953	828.656	827.959	827.662	826.965	826.668	825.971	825.674	824.977	824.680	823.983	823.686	822.989	822.692	821.995	821.698	820.901	820.604	819.907	819.610	818.913	818.616	817.919	817.622	816.925	816.628	815.931	815.634	814.937	814.640	813.943	813.646	812.949	812.652	811.955	811.658	810.961	810.664	809.967	809.670	808.973	808.676	807.979	807.682	806.985	806.688	805.991	805.694	804.997	804.700	804.003	803.706	803.409	802.712	802.415	801.718	801.421	800.724	800.427	799.730	799.433	798.736	798.439	797.742	797.445	796.748	796.451	795.754	795.457	794.760	794.463	793.766	793.469	792.772	792.475	791.778	791.481	790.784	790.487	789.790	789.493	788.796	788.499	787.802	787.505	786.808	786.511	785.814	785.517	784.820	784.523	783.826	783.529	782.832	782.535	781.838	781.541	780.844	780.547	779.850	779.553	778.856	778.559	777.862	777.565	776.868	776.571	775.874	775.577	774.880	774.583	773.886	773.589	772.892	772.595	771.898	771.601	770.904	770.607	769.910	769.613	768.916	768.619	767.922	767.625	766.928	766.631	765.934	765.637	764.940	764.643	763.946	763.649	762.952	762.655	761.958	761.661	760.964	760.667	759.970	759.673	758.976	758.679	757.982	757.685	756.988	756.691	755.994	755.697	754.900	754.603	753.906	753.609	752.912	752.615	751.918	751.621	750.924	750.627	749.930	749.633	748.936	748.639	747.942	747.645	746.948	746.651	745.954	745.657	744.960	744.663	743.966	743.669	742.972	742.675	741.978	741.681	740.984	740.687	739.990	739.693	738.996	738.699	738.002	737.705	737.408	737.111	736.814	736.517	735.820	735.523	734.826	734.529	733.832	733.535	732.838	732.541	731.844	731.547	730.850	730.553	729.856	729.559	728.862	728.565	727.868	727.571	726.874	726.577	725.880	725.583	724.886	724.589	723.892	723.595	722.898	722.601	721.904	721.607	720.910	720.613	719.916	719.619	718.922	718.625	717.928	717.631	716.934	716.637	715.940	715.643	714.946	714.649	713.952	713.655	712.958	712.661	711.964	711.667	710.970	710.673	709.976	709.679	708.982	708.685	707.988	707.691	706.994	706.697	705.900	705.603	704.906	704.609	703.912	703.615	702.918	702.621	701.924	701.627	700.930	700.633	699.936	699.639	698.942	698.645	697.948	697.651	696.954	696.657	695.960	695.663	694.966	694.669	693.972	693.675	692.978	692.681	691.984	691.687	690.990	690.693	689.996	689.699	688.902	688.605	687.908	687.611	686.914	686.617	685.920	685.623	684.926	684.629	683.932	683.635	682.938	682.641	681.944	681.647	680.950	680.653	679.956	679.659	678.962	678.665	677.968	677.671	676.974	676.677	675.980	675.683	674.986	674.689	673.992	673.695	672.998	672.701	672.004	671.707	671.410	670.713	670.416	669.719	669.422	668.725	668.428	667.731	667.434	666.737	666.440	665.743	665.446	664.749	664.452	663.755	663.458	662.761	662.464	661.767	661.470	660.773	660.476	659.779	659.482	658.785	658.488	657.791	657.494	656.797	656.500	655.803	655.506	654.809	654.512	653.815	653.518	652.821	652.524	651.827	651.530	650.833	650.536	649.839	649.542	648.845	648.548	647.851	647.554	646.857	646.560	645.863	645.566	644.869	644.572	643.875	643.578	642.881	642.584	641.887	641.590	640.893	640.596	639.899	639.602	638.905	638.608	637.911	637.614	636.917	636.620	635.923	635.626	634.929	634.632	633.935	633.638	632.941	632.644	631.947	631.650	630.953	630.656	629.959	629.662	628.965	628.668	627.971	627.674	626.977	626.680	625.983	625.686	624.989	624.692	623.995	623.698	622.901	622.604	621.907	621.610	620.913	620.616	619.919	619.622	618.925	618.628	617.931	617.634	616.937	616.640	615.943	615.646	614.949	614.652	613.955	613.658	612.961	612.664	611.967	611.670	610.973	610.676	609.979	609.682	608.985	608.688	607.991	607.694	606.997	606.700	606.003	605.706	605.409	604.712	604.415	603.718	603.421	602.724	602.427	601.730	601.433	600.736	600.439	599.742	599.445	598.748	598.451	597.754	597.457	596.760	596.463	595.766	595.469	594.772	594.475	593.778	593.481	592.784	592.487	591.790	591.493	590.796	590.499	589.802	589.505	588.808	588.511	587.814	587.517	586.820	586.523	585.826	585.529	584.832	584.535	583.838	583.541	582.844	582.547	581.850	581.553	580.856	580.559	579.862	579.565	578.868	578.571	577.874	577.577	576.880	576.583	575.886	575.589	574.892	574.595	573.898	573.601	572.904	572.607	571.910	571.613	570.916	570.619	569.922	569.625	568.928	568.631	567.934	567.637	566.940	566.643	565.946	565.649	564.952	564.655	563.958	563.661	562.964	562.667	561.970	561.673	560.976	560.679	559.982	559.685	558.988	558.691	557.994	557.697	556.900	556.603	555.906	555.609	554.912	554.615	553.918	553.621	552.924	552.627	551.930	551.633	550.936	550.639	549.942	549.645	548.948	548.651	547.954	547.657	546.960	546.663	545.966	545.669	544.972	544.675	543.978	543.681	542.984	542.687	541.990	541.693	540.996	540.699	539.902	539.605	538.908	538.611	537.914	537.617	536.920	536.623	535.926	535.629	534.932	534.635	533.938	533.641	532.944	532.647	531.950	531.653	530.956	530.659	529.962	529.665	528.968	528.671	527.974	527.677	526.980	526.683	525.986	525.689	524.992	524.695	523.998	523.701	523.004	522.707	522.410	521.713	521.416	520.719	520.422	519.725	519.428	518.731	518.434	517.737	517.440	516.743	516.446	515.749	515.452	514.755	514.458	513.761	513.464	512.767	512.470	511.773	511.476	510.779	510.482	509.785	509.488	508.791	508.494	507.797	507.500	506.803	506.506	505.809	505.512	504.815	504.518	503.821	503.524	502.827	502.530	501.833	501.536	500.839	500.542	499.845	499.548	498.851	498.554	497.857	497.560	496.863	496.566	495.869	495.572	494.875	494.578	493.881	493.584	492.887	492.590	491.893	491.596	490.899	490.602	489.905	489.608	488.911	488.614	487.917	487.620	486.923	486.626	485.929	485.632	484.935	484.638	483.941	483.644	482.947	482.650	481.953	481.656	480.959	480.662	479.965	479.668	478.971	478.67
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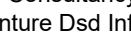
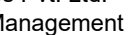


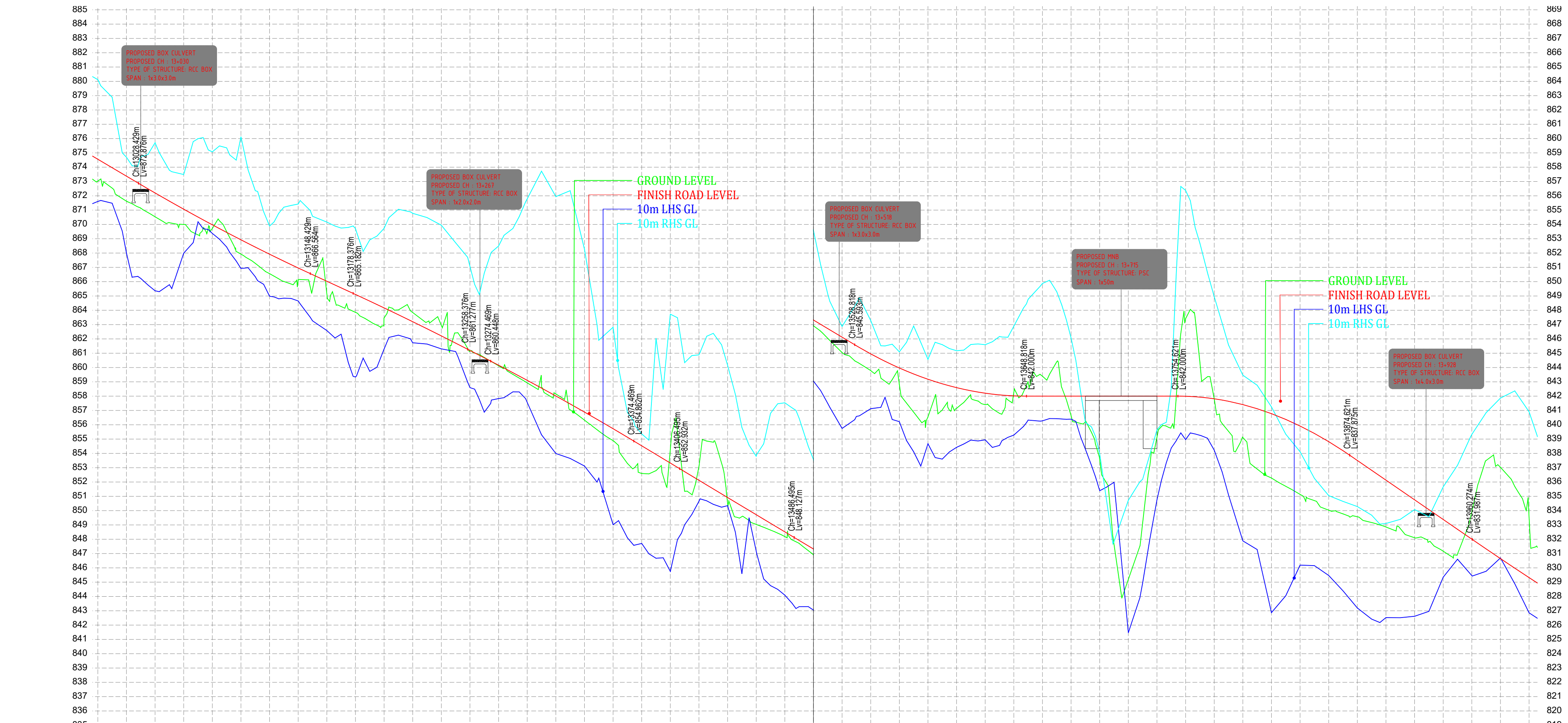
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:	Design Consultant:	Project :	Design By : RK	Title: Rhenock To Rongli Bazaar Plan From Km-12+000 To Km-13+000
									Drawn By : MK	
						National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Checked By : AH	Dwg No: XPL/DSD/SKM/P&P/KM15.3/25
									Approved By : VY	
									Scale : 1/2000(H)	Sheet : 01 OF 02
										Date : Dec-2024



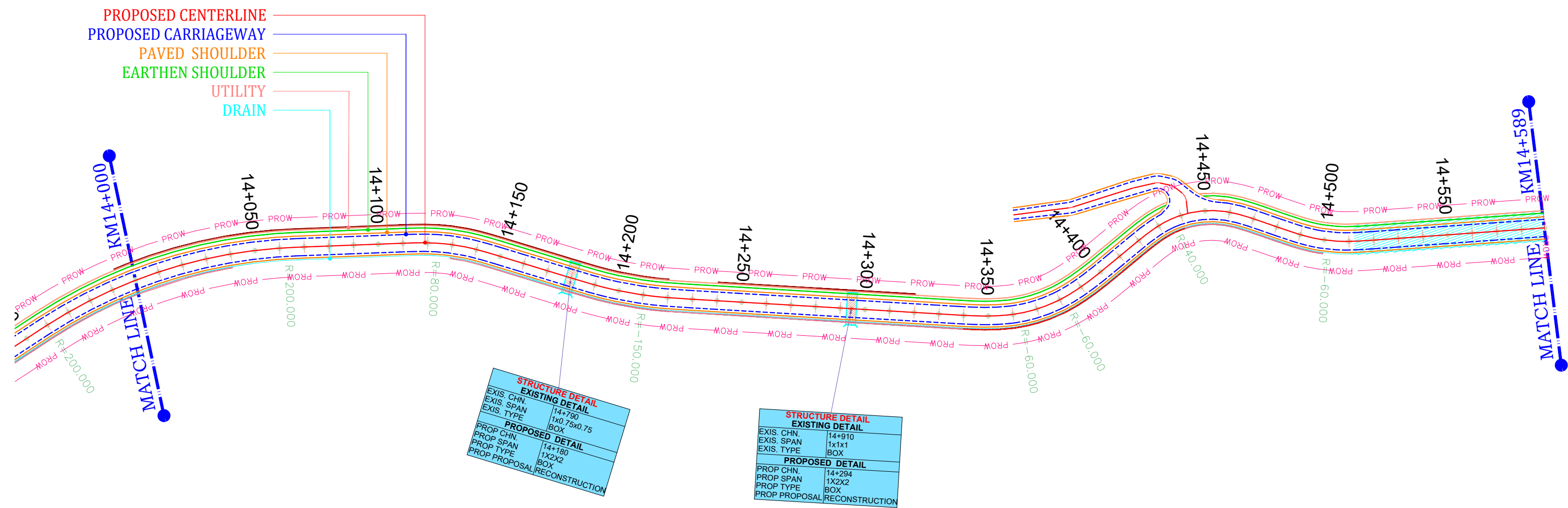
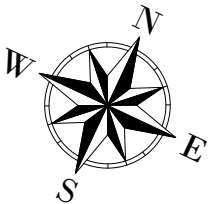
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:	Design Consultant:	Project :	Design By : RK	Title:
					Proposed Center line	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd. in Association With Maverick Mernok & Construction	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK	Rhenock To Rongli Bazaar Profile From Km-12+000 To Km-13+000
					Proposed Carriageway				Checked By : AH	
					Proposed Paved Shoulder				Approved By : VY	Dwg No: XPL/DSD/SKM/P&P/KM15.3/26
					Proposed Earthen Shoulder				Scale : 1/2000(H) & 1/200(V)	Sheet : 02 OF 02
					Utility					Date : Dec-2024
					Drain					
					Retaining Wall					
					Breast wall					
					Slope Protection					



Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:	Design Consultant:	Project :	Design By : RK	Title:		
					Proposed Center line	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".		Rhenock To Rongli Bazaar Plan From Km-13+000 To Km-14+000		
				Proposed Carriageway	Drawn By : MK							
				Proposed Paved Shoulder	Checked By : AH							
				Proposed Earthen Shoulder	Approved By : VY				Dwg No: XPL/DSD/SKM/P&P/KM15.3/27			
				Utility	Scale : 1/2000(H)				Sheet : 01 OF 02	Date : Dec-2024		
				Drain								
				Retaining Wall								
				Breast wall								
				Slope Protection								



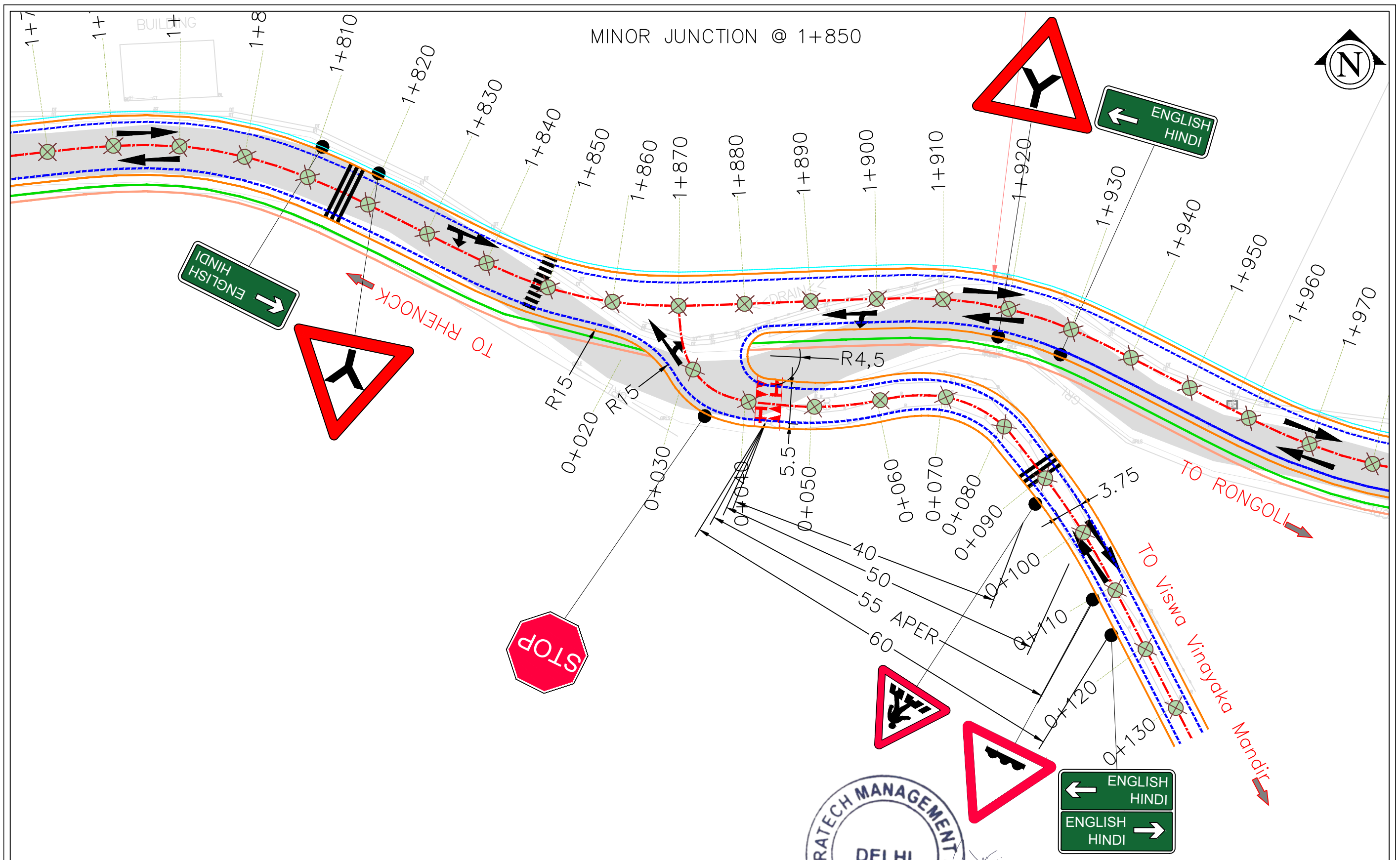
PROPOSED FRL LEVELS	874.555	873.964	873.374	872.784	872.200	871.628	871.066	870.515	869.974	869.445	868.926	868.417	867.920	867.433	866.957	866.492	866.030	865.568	865.107	864.641	864.168	863.689	863.203	862.710	862.211	861.705	861.193	860.678	860.162	859.638	859.106	888.014	887.455	886.887	886.310	885.725	885.131	884.529	883.926	883.324	882.721	882.119	881.517	880.916	880.315	879.715	879.115	878.516	877.917	877.318	876.718	876.119	875.520	874.921	874.322	873.723	873.124	872.525	871.926	871.327	870.728	870.129	869.530	868.931	868.332	867.733	867.134	866.535	865.936	865.337	864.738	864.139	863.540	862.941	862.342	861.743	861.144	860.545	859.946	859.347	858.748	858.149	857.550	856.951	856.352	855.753	855.154	854.555	853.956	853.357	852.758	852.159	851.560	850.961	850.362	849.763	849.164	848.565	847.966	847.367	846.768	846.169	845.570	844.971	844.372	843.773	843.174	842.575	841.976	841.377	840.778	840.179	839.580	838.981	838.382	837.783	837.184	836.585	835.986	835.387	834.788	834.189	833.590	832.991	832.392	831.793	831.194	830.595	829.996	829.397	828.798	828.199	827.600	827.001	826.402	825.803	825.204	824.605	824.006	823.407	822.808	822.209	821.610	821.011	820.412	819.813	819.214	818.615	818.016	817.417	816.818	816.219	815.620	815.021	814.422	813.823	813.224	812.625	812.026	811.427	810.828	810.229	809.630	809.031	808.432	807.833	807.234	806.635	806.036	805.437	804.838	804.239	803.640	803.041	802.442	801.843	801.244	800.645	800.046	799.447	798.848	798.249	797.650	797.051	796.452	795.853	795.254	794.655	794.056	793.457	792.858	792.259	791.660	791.061	790.462	789.863	789.264	788.665	788.066	787.467	786.868	786.269	785.670	785.071	784.472	783.873	783.274	782.675	782.076	781.477	780.878	780.279	779.680	779.081	778.482	777.883	777.284	776.685	776.086	775.487	774.888	774.289	773.690	773.091	772.492	771.893	771.294	770.695	770.096	769.497	768.898	768.299	767.700	767.101	766.502	765.903	765.304	764.705	764.106	763.507	762.908	762.309	761.710	761.111	760.512	759.913	759.314	758.715	758.116	757.517	756.918	756.319	755.720	755.121	754.522	753.923	753.324	752.725	752.126	751.527	750.928	750.329	749.730	749.131	748.532	747.933	747.334	746.735	746.136	745.537	744.938	744.339	743.740	743.141	742.542	741.943	741.344	740.745	740.146	739.547	738.948	738.349	737.750	737.151	736.552	735.953	735.354	734.755	734.156	733.557	732.958	732.359	731.760	731.161	730.562	729.963	729.364	728.765	728.166	727.567	726.968	726.369	725.770	725.171	724.572	723.973	723.374	722.775	722.176	721.577	720.978	720.379	719.780	719.181	718.582	717.983	717.384	716.785	716.186	715.587	714.988	714.389	713.790	713.191	712.592	711.993	711.394	710.795	710.196	709.597	708.998	708.399	707.800	707.201	706.602	706.003	705.404	704.805	704.206	703.607	703.008	702.409	701.810	701.211	700.612	700.013	699.414	698.815	698.216	697.617	697.018	696.419	695.820	695.221	694.622	694.023	693.424	692.825	692.226	691.627	691.028	690.429	689.830	689.231	688.632	688.033	687.434	686.835	686.236	685.637	685.038	684.439	683.840	683.241	682.642	682.043	681.444	680.845	680.246	679.647	679.048	678.449	677.850	677.251	676.652	676.053	675.454	674.855	674.256	673.657	673.058	672.459	671.860	671.261	670.662	670.063	669.464	668.865	668.266	667.667	667.068	666.469	665.870	665.271	664.672	664.073	663.474	662.875	662.276	661.677	661.078	660.479	659.880	659.281	658.682	658.083	657.484	656.885	656.286	655.687	655.088	654.489	653.890	653.291	652.692	652.093	651.494	650.895	650.296	649.697	649.098	648.499	647.900	647.301	646.702	646.103	645.504	644.905	644.306	643.707	643.108	642.509	641.910	641.311	640.712	640.113	639.514	638.915	638.316	637.717	637.118	636.519	635.920	635.321	634.722	634.123	633.524	632.925	632.326	631.727	631.128	630.529	629.930	629.331	628.732	628.133	627.534	626.935	626.336	625.737	625.138	624.539	623.940	623.341	622.742	622.143	621.544	620.945	620.346	619.747	619.148	618.549	617.950	617.351	616.752	616.153	615.554	614.955	614.356	613.757	613.158	612.559	611.960	611.361	610.762	610.163	609.564	608.965	608.366	607.767	607.168	606.569	605.970	605.371	604.772	604.173	603.574	602.975	602.376	601.777	601.178	600.579	600.000	599.401	598.802	598.203	597.604	597.005	596.406	595.807	595.208	594.609	594.010	593.411	592.812	592.213	591.614	591.015	590.416	589.817	589.218	588.619	588.020	587.421	586.822	586.223	585.624	585.025	584.426	583.827	583.228	582.629	582.030	581.431	580.832	580.233	579.634	579.035	578.436	577.837	577.238	576.639	576.040	575.441	574.842	574.243	573.644	573.045	572.446	571.847	571.248	570.649	570.050	569.451	568.852	568.253	567.654	567.055	566.456	565.857	565.258	564.659	564.060	563.461	562.862	562.263	561.664	561.065	560.466	559.867	559.268	558.669	558.070	557.471	556.872	556.273	555.674	555.075	554.476	553.877	553.278	552.679	552.080	551.481	550.882	550.283	549.684	549.085	548.486	547.887	547.288	546.689	546.090	545.491	544.892	544.293	543.694	543.095	542.496	541.897	541.298	540.699	540.100	539.501	538.902	538.303	537.704	537.105	536.506	535.907	535.308	534.709	534.110	533.511	532.912	532.313	531.714	531.115	530.516	529.917	529.318	528.719	528.120	527.521	526.922	526.323	525.724	525.125	524.526	523.927	523.328	522.729	522.130	521.531	520.932	520.333	519.734	519.135	518.536	517.937	517.338	516.739	516.140	515.541	514.942	514.343	513.744	513.145	512.546	511.947	511.348	510.749	510.150	509.551	508.952	508.353	507.754	507.155	506.556	505.957	505.358	504.759	504.160	503.561	502.962	502.363	501.764	501.165	500.566	500.000	499.401	498.802	498.203	497.604	497.005	496.406	495.807	495.208	494.609	494.010	493.411	492.812	492.213	491.614	491.015	490.416	489.817	489.218	488.619	488.020	487.421	486.822	486.223	485.624	485.025	484.426	483.827	483.228	482.629	482.030	481.431	480.832	480.233	479.634	479.035	478.436	477.837	477.238	476.639	476.040	475.441	474.842	474.243	473.644	473.045	472.446	471.847	471.248	470.649	470.050	469.451	468.852	468.253	467.654	467.055	466.456	465.857	465.258	464.659	464.060	463.461	462.862	462.263	461.664	461.065	460.466	459.867	459.268	458.669	458.070	457.471	456.872	456.273	455.674	455.075	454.476	453.877	453.278	452.679	452.080	451.481	450.882	450.283	449.684	449.085	448.486	447.887	447.288	446.689	446.090	445.491	444.892	444.293	443.694	443.095	442.496	441.897	441.298	440.699	440.100	439.501	438.902	438.303	437.704	437.105	436.506	435.907	435.308	434.709	434.110	433.511	432.912	432.313	431.714	431.115	430.516	429.917	429.318	428.719	428.120	427.521	426.922	426.323	425.724	425.125	424.526	423.927	423.328	422.729	422.130	421.531	420.932	420.333	419.734	419.135	418.536	417.937	417.338	416.739	416.140	415.541	414.942	414.343	413.744	413.145	412.546	411.947	411.348	410.749	410.150	409.551	408.952	408.353	407.754	407.155	406.556	405.957	405.358	404.759	404.160	403.561	402.962	402.363	401.764	401.165	400.566	400.000	399.401	398.802	398.203	397.604	397.005	396.406	395.807	395.208	394.609	394.010	393.411	392.812	392.213	391.614	391.015	390.416	389.817	389.218	388.619	388.020	387.421	386.822	386.223	385.624	385.025	384.426	383.827	383.228	382.629	382.030	381.431	380.832	380.233	379.634	379.035	378.436	377.837	377.238	376.639	376.040	375.441	374.842	374.243	373.644	373.045	372.446	371.847	371.248	370.649	370.050	369.451	368.852	368.253	367.654	367.055	366.456	365.857	365.258	364.659	364.060	363.461	362.862	362.263	361.664	361.065	360.466	359.867	359.268	358.669	358.070	357.471	356.872	356.273	355.674	355.075	354.476	353.877	353.278	352.679	352.080	351.481	350.882	350.283	349.684	349.085	348.486	347.887	347.288	346.689	346.090	345.491	344.892	344.293	343.694	343.095	342.496	341.897	341.298	340.699	340.100	339.501	338.902	338.303	337.704	337.105	336.506	335.907	335.308	334.709	334.110	333.511	332.912	332.313	331.714	331.115	330.516	329.917	329.318	328.719	328.120	327.521	326.922	326.323	325.724	325.125	324.526	323.927	323.328	322.729	322.130	321.531	320.932	320.333	319.734	319.135	318.536	317.937	317.338	316.739	316.140	315.541	314.942	314.343	313.744	313.145	312.546	311.947	311.348	310.749	310.150	309.551	308.952	308.353	307.754	307.155	306.556	305.957	305.358	304.759	304.160	303.561	302.962	302.363	301.
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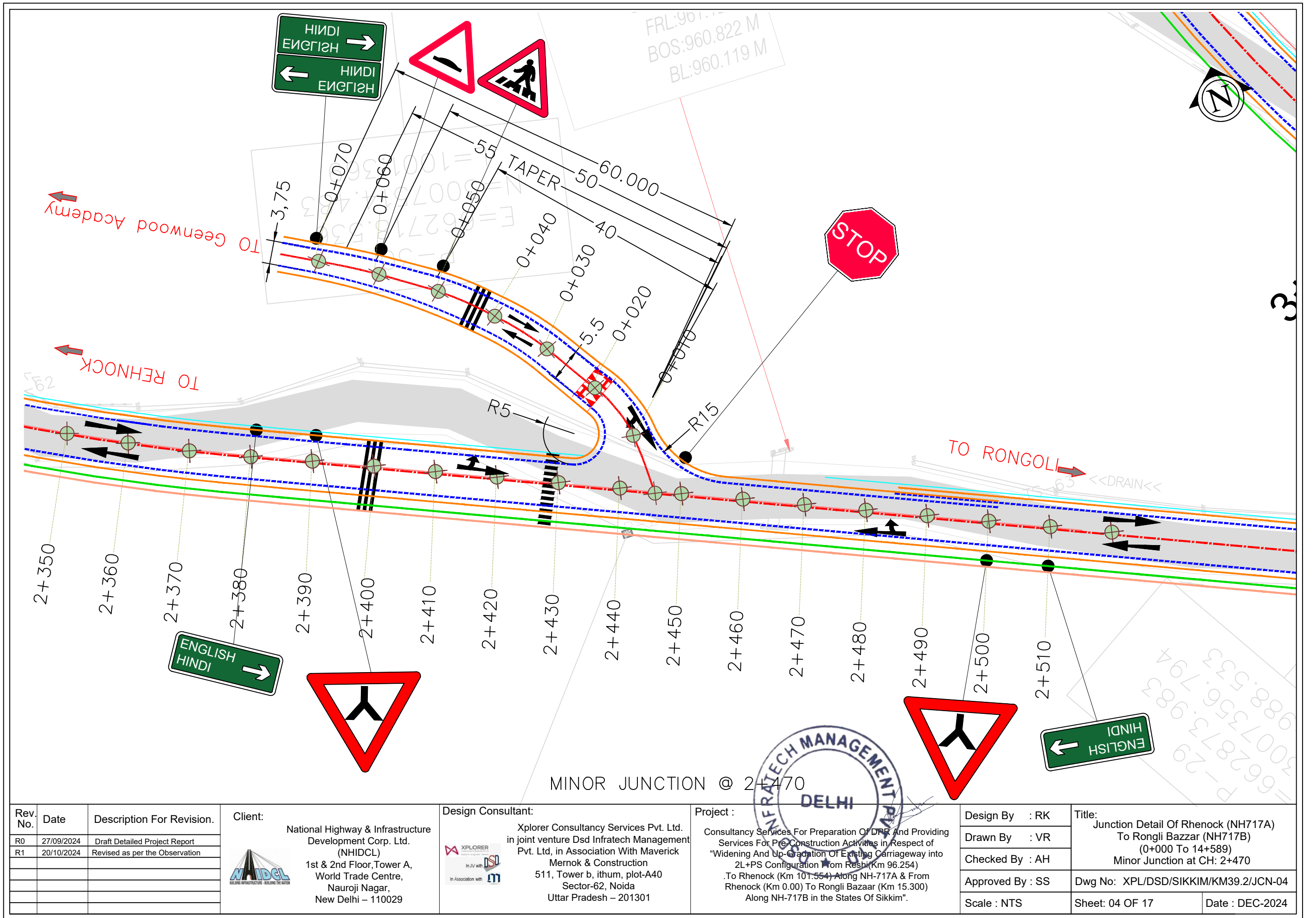
Rev.No	Date	Checked By	Revision Details	Color Code	Abbreviation	Client:	Design Consultant:	Project :	Design By : RK	Title:		
					Proposed Center line	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK	Rhenock To Rongli Bazaar Plan From Km-14+000 To Km-14+589		
				Proposed Carriageway	Checked By : AH							
				Proposed Paved Shoulder	Approved By : VY				Dwg No: XPL/DSD/SKM/P&P/KM15.3/29			
				Proposed Earthen Shoulder	Scale : 1/2000(H)				Sheet : 01 OF 02	Date : Dec-2024		
				Utility								
				Drain								
				Retaining Wall								
				Breast wall								
				Slope Protection								

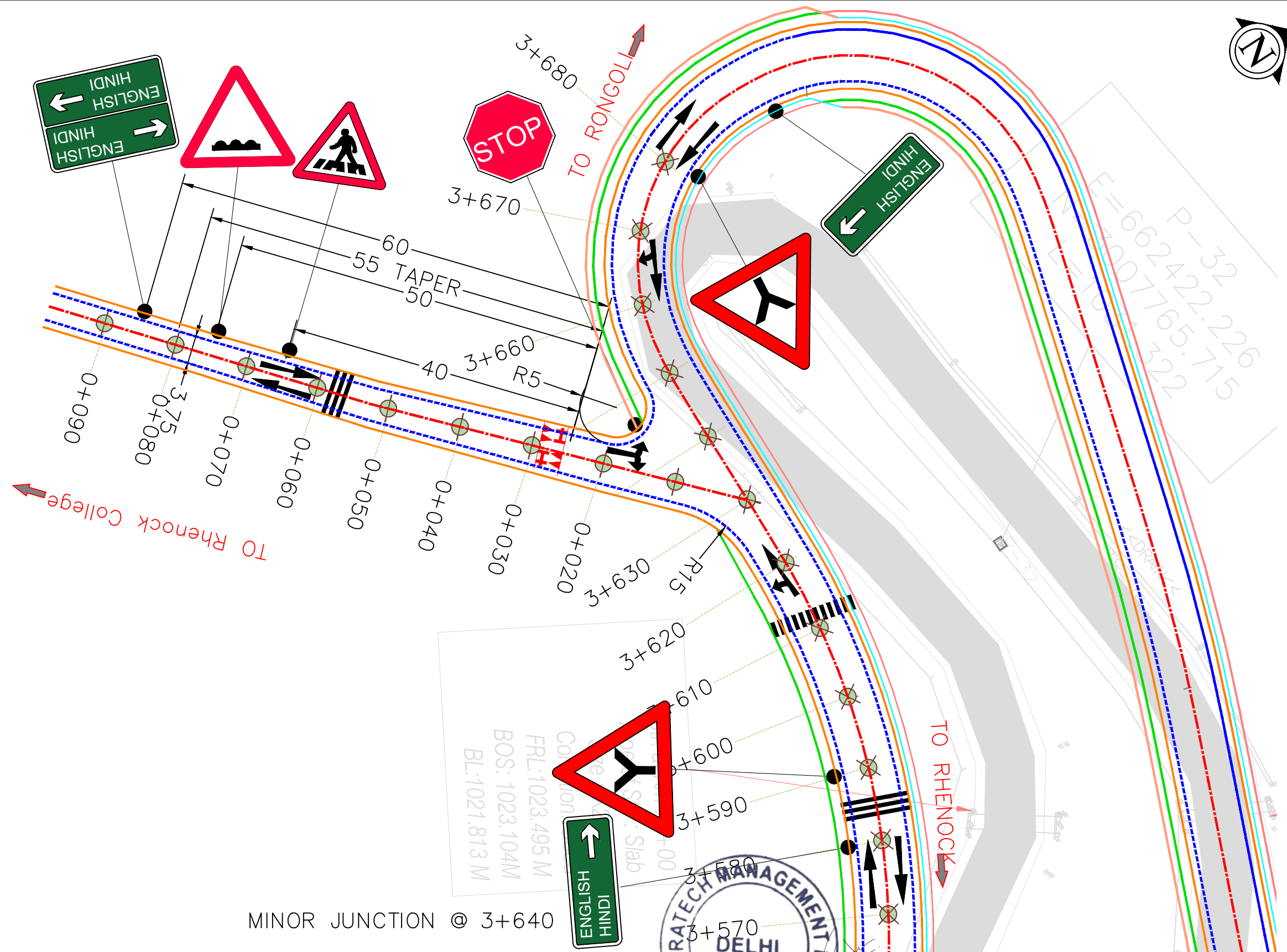


**Junction Detail Of Rhenock (NH717A)
To Rongli Bazzar (NH717B)
(Km 0+000 To Km14+589)**

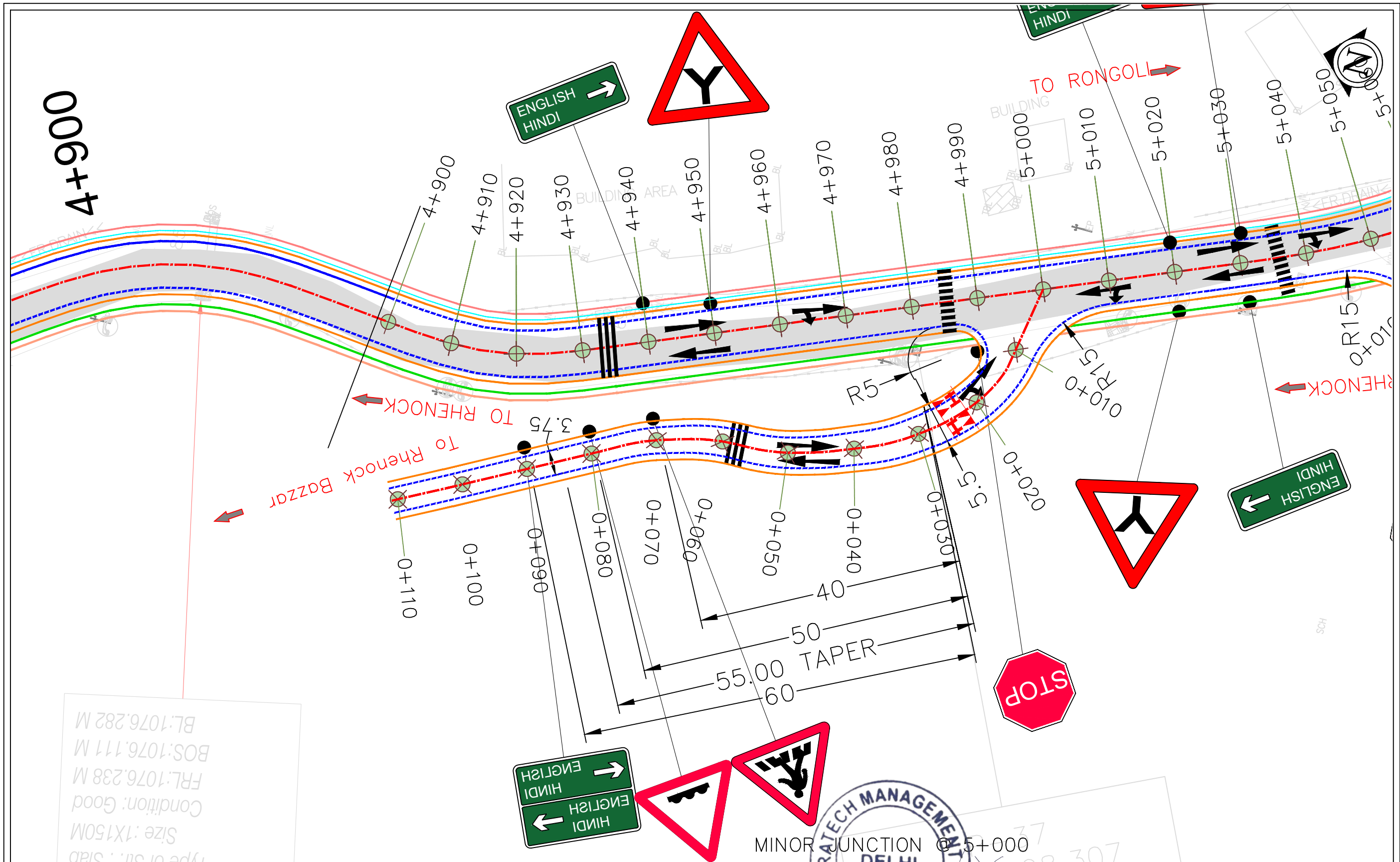


Rev. No.	Date	Description For Revision.	Client:	Design Consultant:	Project :	Design By : RK	Title:
R0	27/09/2024	Draft Detailed Project Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Grading Of Existing Carriageway into 2L+PS Configuration From Reshi (Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : VR	Junction Detail Of Rhenock (NH717A) To Rongli Bazaar (NH717B) (0+000 To 14+589) Minor Junction at CH: 1+850
R1	20/10/2024	Revised as per the Observation				Checked By : AH	
						Approved By : SS	
						Scale : NTS	
						Sheet: 03 OF 17	Date : DEC-2024

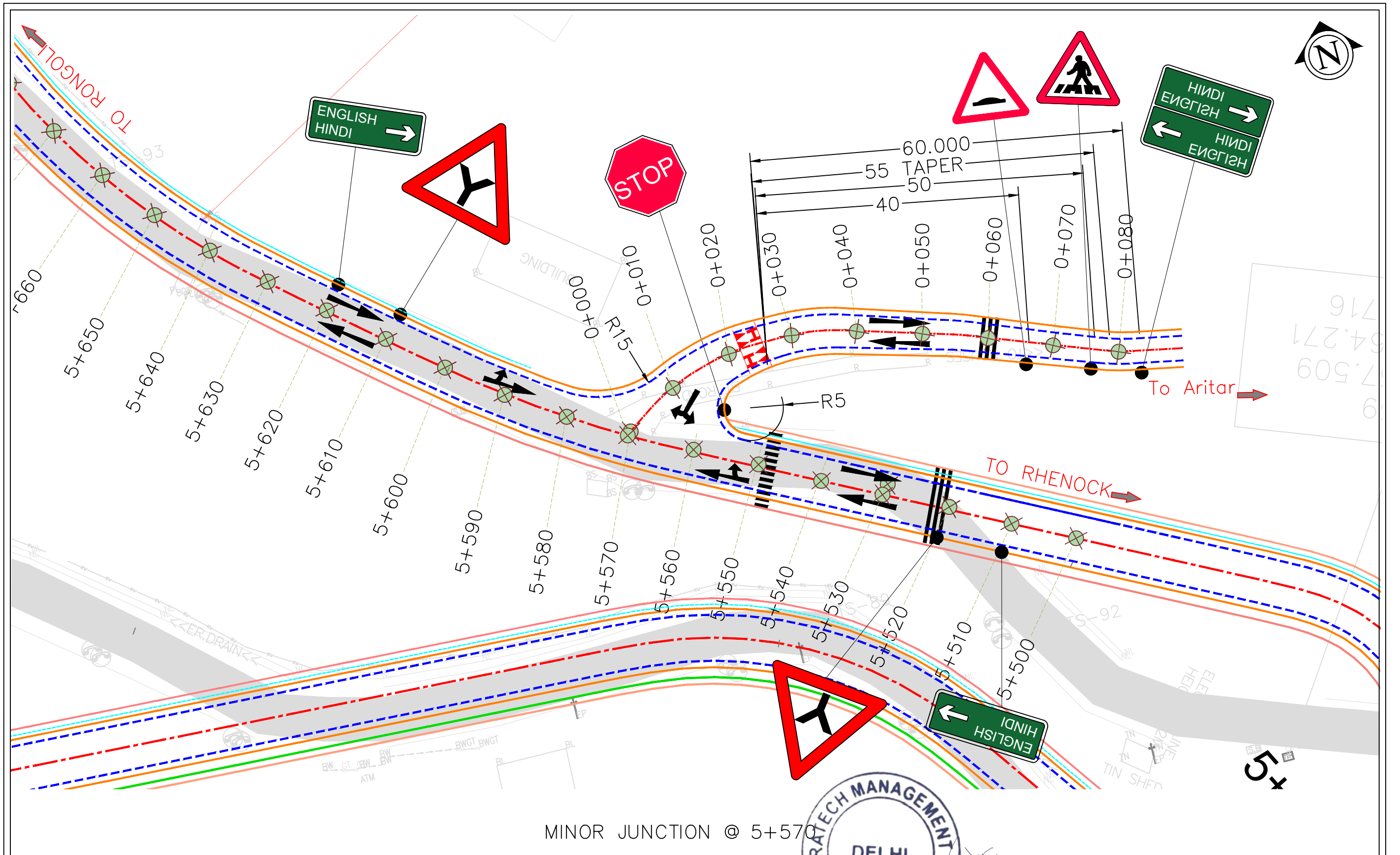




Rev. No.	Date	Description For Revision.	Client:	Design Consultant:	Project :	Design By : RK	Title: Junction Detail Of Rhenock (NH717A) To Rongli Bazaar (NH717B) (0+000 To 14+589) Minor Junction at CH: 3+640	
R0	27/09/2024	Draft Detailed Project Report	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-gradation Of Existing Carriageway into 2L+PS Configuration From Rheni (Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : VR		
R1	20/10/2024	Revised as per the Observation				Checked By : AH		
						Approved By : SS		
						Scale : NTS		
							Sheet: 05 OF 17	Date : DEC-2024

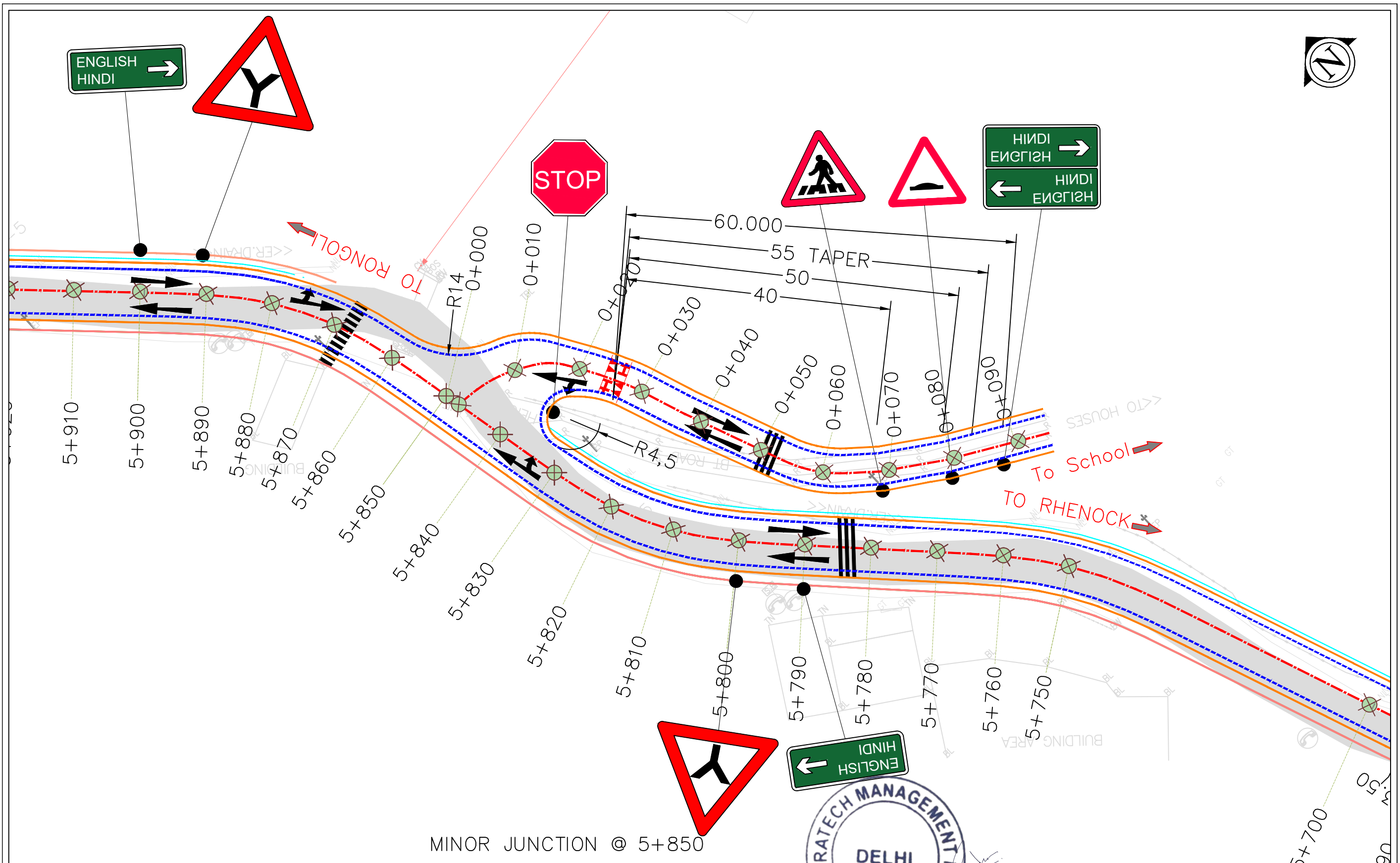


Rev. No.	Date	Description For Revision.	Client:	Design Consultant:	Project :	Design By : RK	Title:	
R0	27/09/2024	Draft Detailed Project Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : VR	Junction Detail Of Rhenock (NH717A) To Rongli Bazzar (NH717B) (0+000 To 14+589) Minor Junction at CH: 5+000	
R1	20/10/2024	Revised as per the Observation				Checked By : AH		
						Approved By : SS	Dwg No: XPL/DSD/SIKKIM/KM39.2/JCN-06	
						Scale : NTS	Sheet: 06 OF 17	Date : DEC-2024

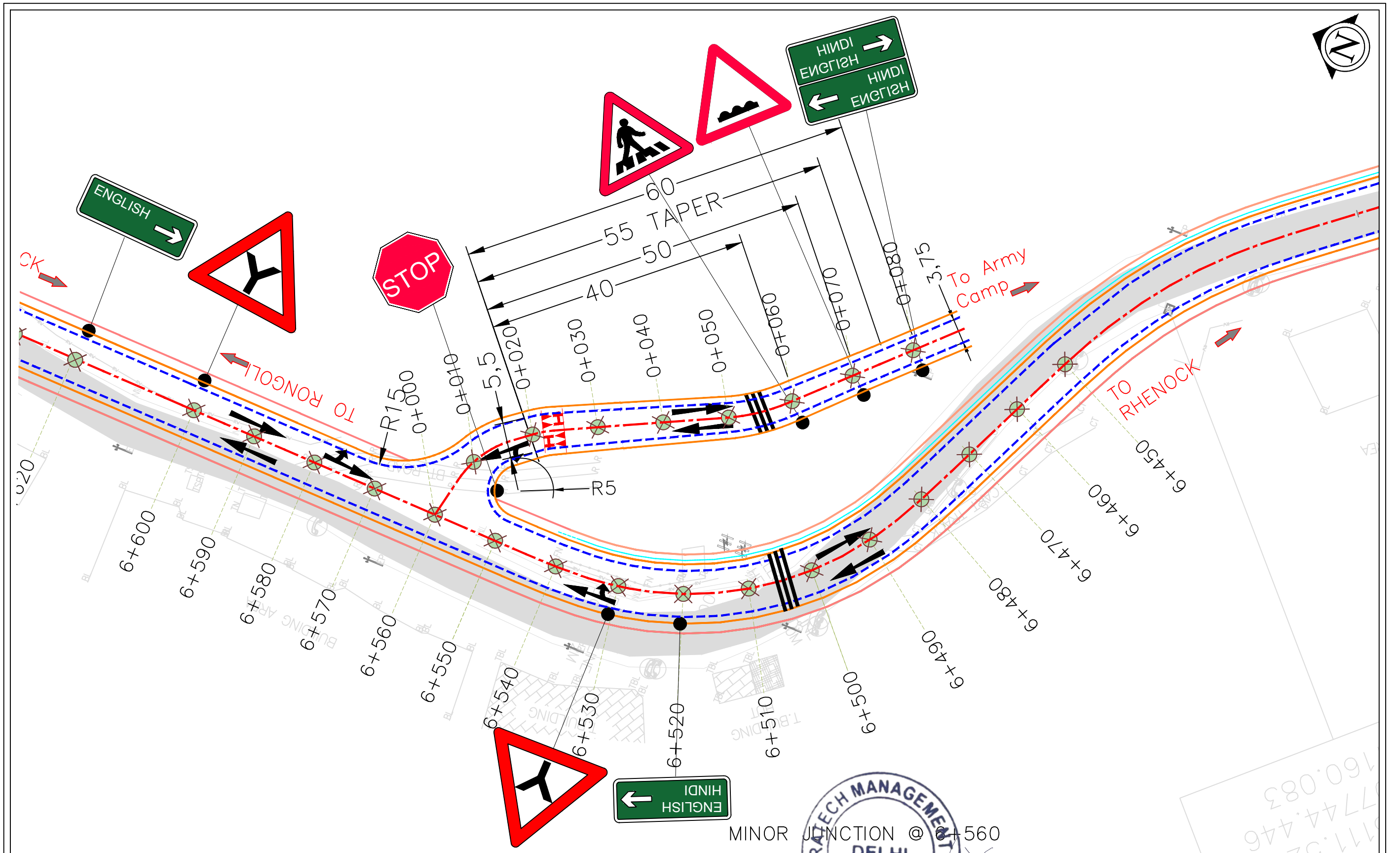


MINOR JUNCTION @ 5+570

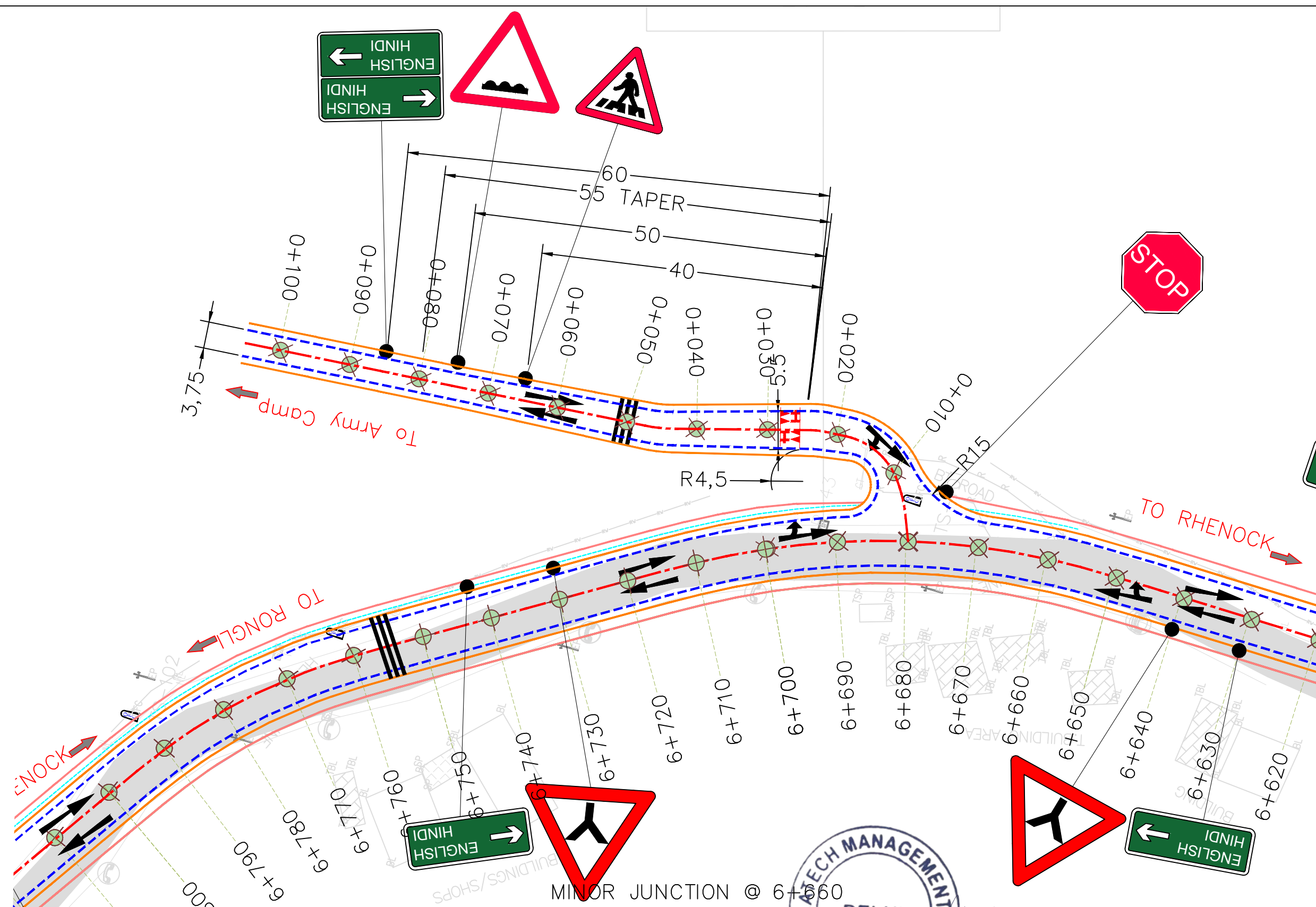
Rev. No.	Date	Description For Revision.	 Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Design By : RK Drawn By : VR Checked By : AH Approved By : SS Scale : NTS	Title: Junction Detail Of Rhenock (NH717A) To Rongli Bazaar (NH717B) (0+000 To 14+589) Minor Junction at CH: 5+570 Dwg No: XPL/DSD/SIKKIM/KM39.2/JCN-08 Sheet: 08 OF 17 Date : DEC-2024
	R0	27/09/2024	Draft Detailed Project Report				
	R1	20/10/2024	Revised as per the Observation				



Rev. No.	Date	Description For Revision.	Client:	Design Consultant:	Project :	Design By : RK	Title:	
R0	27/09/2024	Draft Detailed Project Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infotech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities In Respect of "Widening And Up-Gratation Of Existing Carriageway into 2L+PS Configuration From Reshi (Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : VR	Junction Detail Of Rhenock (NH717A) To Rongli Bazzar (NH717B) (0+000 To 14+589) Minor Junction at CH: 5+850	
R1	20/10/2024	Revised as per the Observation				Checked By : AH		
						Approved By : SS	Dwg No: XPL/DSD/SIKKIM/KM39.2/JCN-09	
						Scale : NTS	Sheet: 09 OF 17	Date : DEC-2024



Rev. No.	Date	Description For Revision.	Client:	Design Consultant:	Project :	Design By : RK	Title: Junction Detail Of Rhenock (NH717A) To Rongli Bazaar (NH717B) (0+000 To 14+589) Minor Junction at CH: 6+560	
R0	27/09/2024	Draft Detailed Project Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : VR		
R1	20/10/2024	Revised as per the Observation				Checked By : AH		
						Approved By : SS	Dwg No: XPL/DSD/SIKKIM/KM39.2/JCN-10	
						Scale : NTS	Sheet: 10 OF 17	Date : DEC-2024



Rev. No.	Date	Description For Revision.
R0	27/09/2024	Draft Detailed Project Report
R1	20/10/2024	Revised as per the Observation

Client:

National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)
1st & 2nd Floor, Tower A,
World Trade Centre,
Nauroji Nagar,
New Delhi – 110029

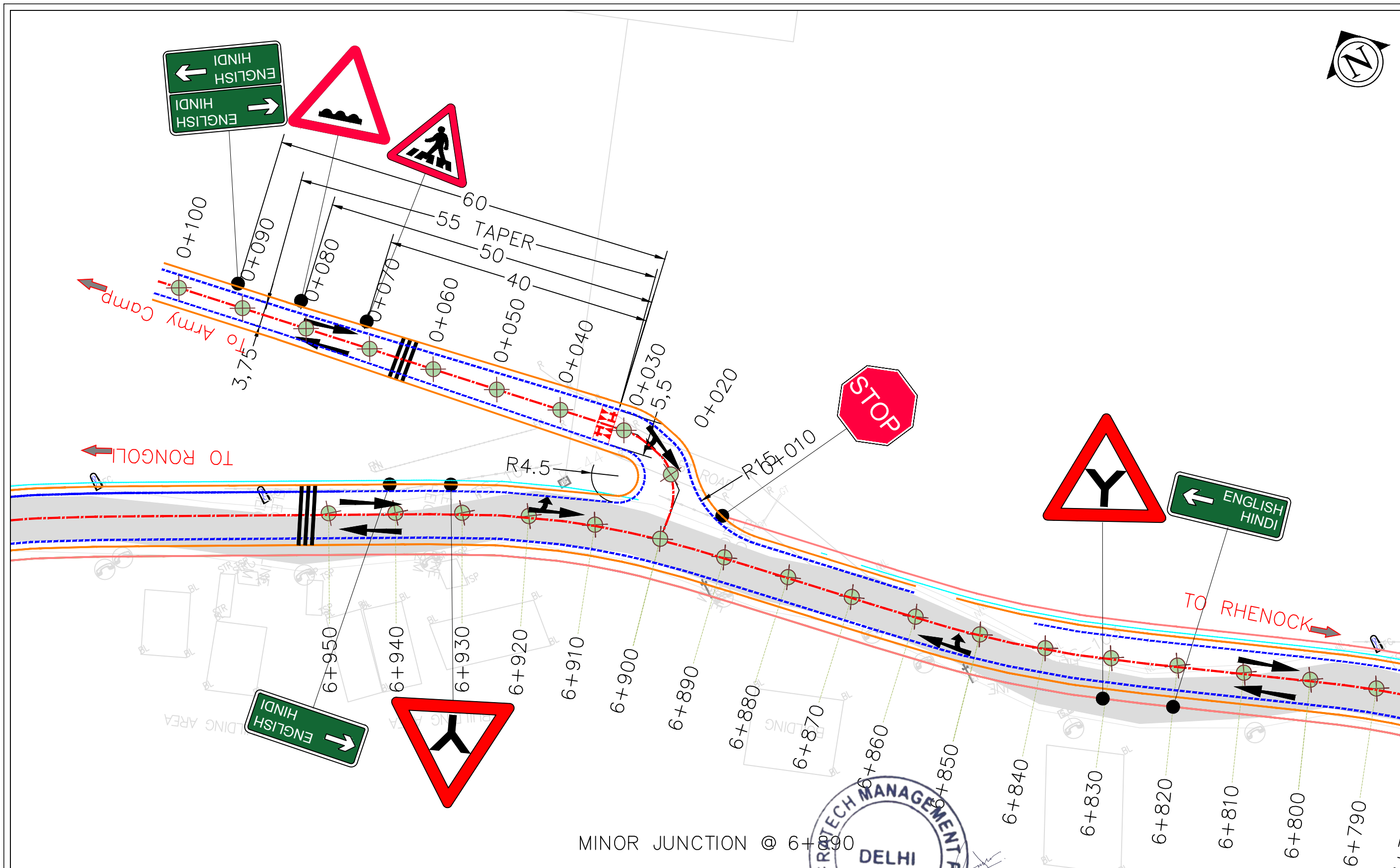
Design Consultant:

Xplorer Consultancy Services Pvt. Ltd.
in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction
511, Tower b, ithum, plot-A40
Sector-62, Noida
Uttar Pradesh – 201301

Project :

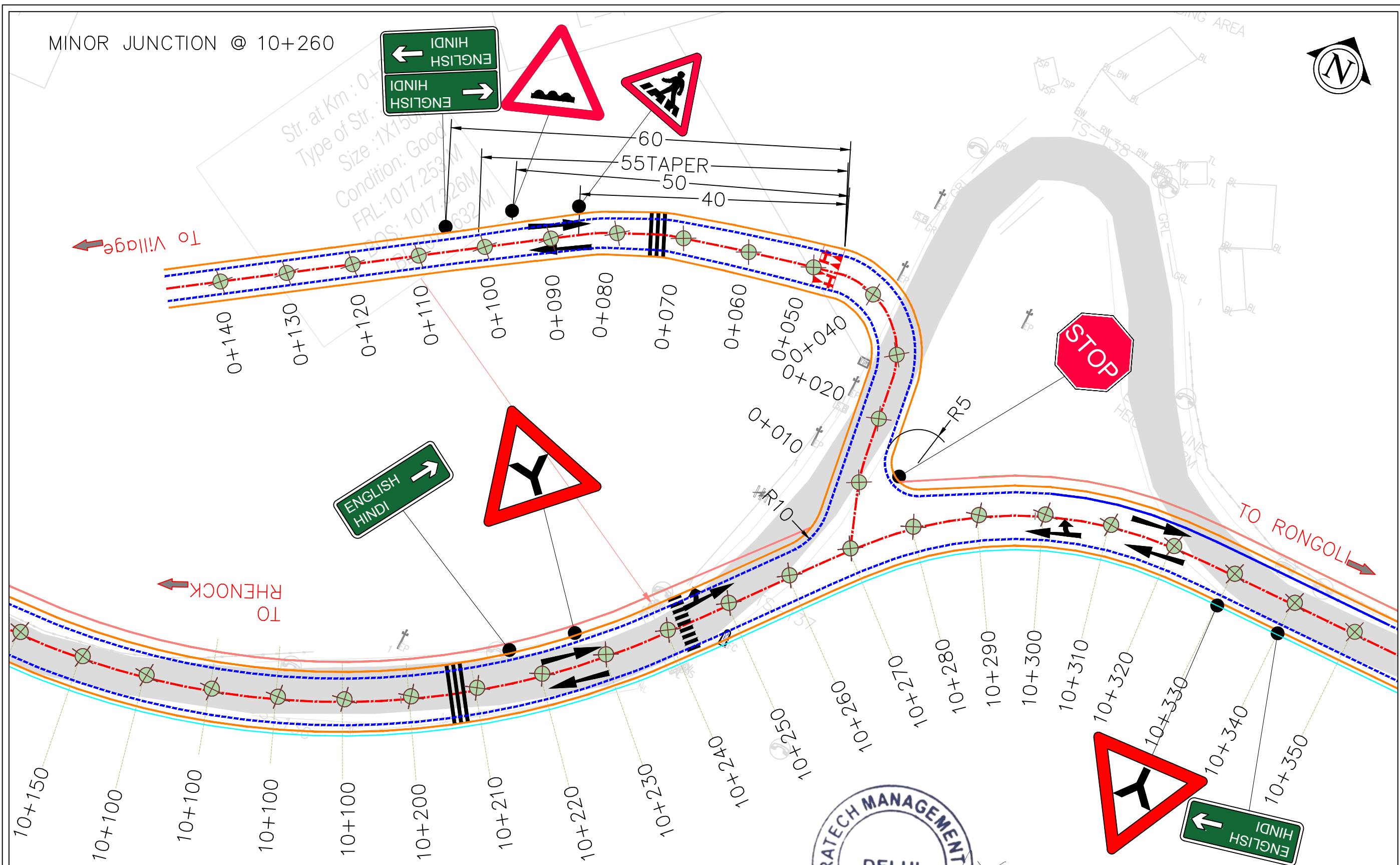
Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".

Design By : RK	Title: Junction Detail Of Rhenock (NH717A) To Rongli Bazaar (NH717B) (0+000 To 14+589) Minor Junction at CH: 6+660	
Drawn By : VR		
Checked By : AH	Dwg No: XPL/DSD/SIKKIM/KM39.2/JCN-11	
Approved By : SS		
Scale : NTS	Sheet: 11 OF 17	Date : DEC-2024



Rev. No.	Date	Description For Revision.	Client:	Design Consultant:	Project :	Design By : RK	Title: Junction Detail Of Rhenock (NH717A) To Rongli Bazaar (NH717B) (0+000 To 14+589) Minor Junction at CH: 6+890	
R0	27/09/2024	Draft Detailed Project Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre Construction Activities in Respect of "Widening And Up-gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : VR		
R1	20/10/2024	Revised as per the Observation				Checked By : AH		
						Approved By : SS	Dwg No: XPL/DSD/SIKKIM/KM39.2/JCN-12	
						Scale : NTS	Sheet: 12 OF 17	Date : DEC-2024

MINOR JUNCTION @ 10+260



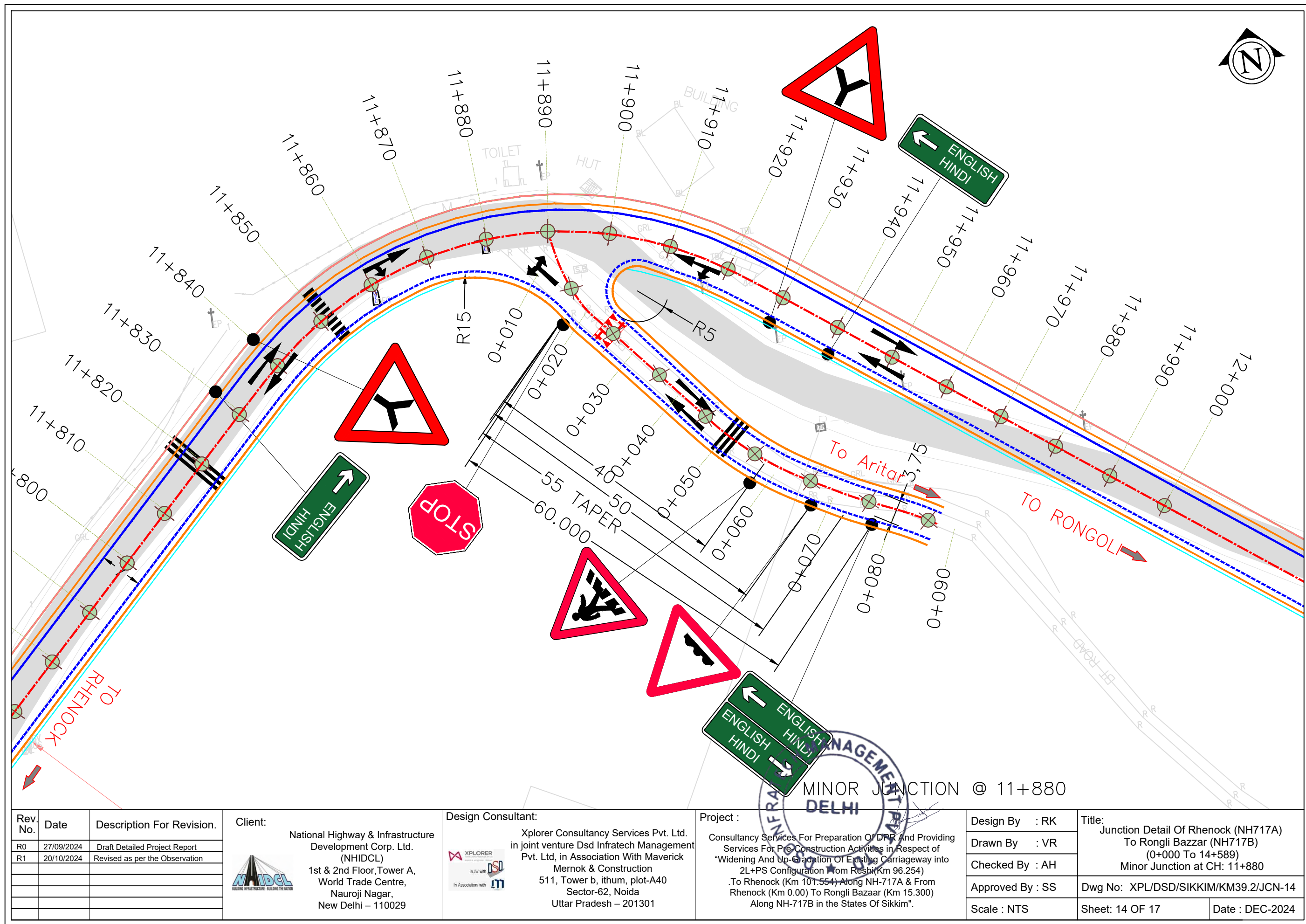
Rev. No.	Date	Description For Revision.
R0	27/09/2024	Draft Detailed Project Report
R1	20/10/2024	Revised as per the Observation

Client:
National Highway & Infrastructure Development Corp. Ltd. (NHIDCL)
 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029

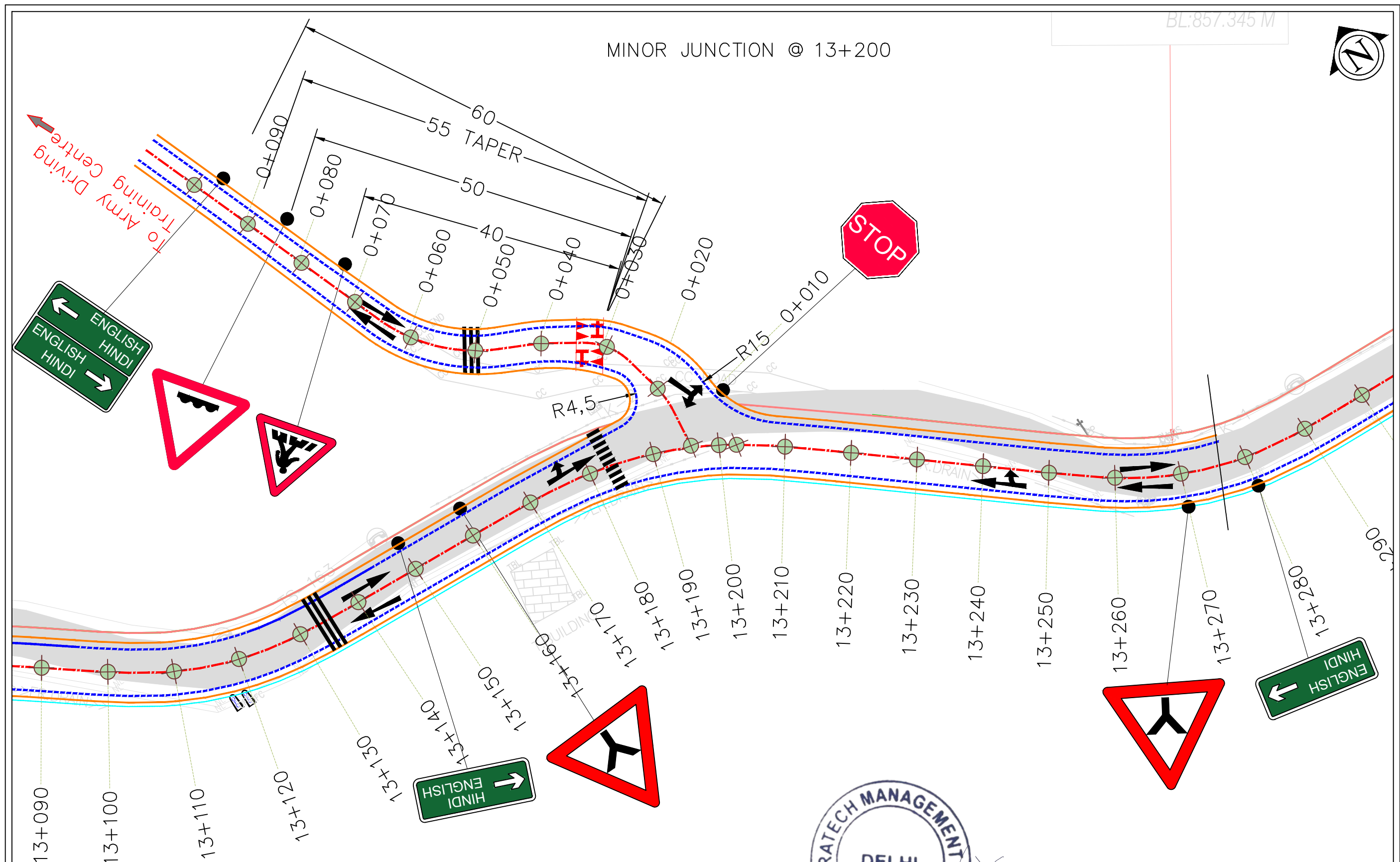
Design Consultant:
Xplorer Consultancy Services Pvt. Ltd.
 in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction
 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301

Project :
 Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Grading Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".

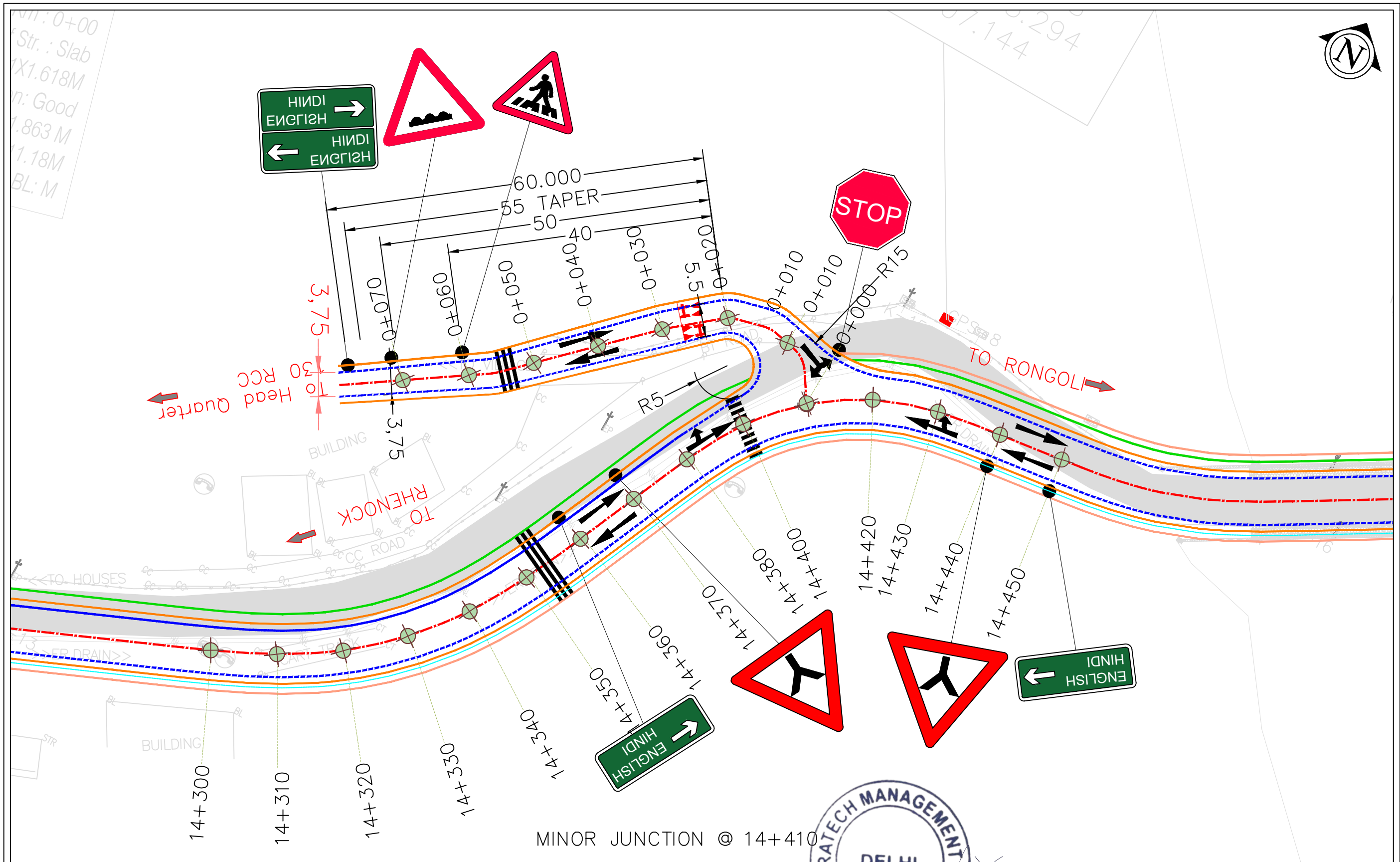
Design By : RK	Title: Junction Detail Of Rhenock (NH717A) To Rongli Bazaar (NH717B) (0+000 To 14+589) Minor Junction at CH: 10+260	
Drawn By : VR		
Checked By : AH	Dwg No: XPL/DSD/SIKKIM/KM39.2/JCN-13	
Approved By : SS		
Scale : NTS	Sheet: 13 OF 17	Date : DEC-2024



Rev. No.	Date	Description For Revision.	Client:	Design Consultant:	Project :	Design By	Title:
R0	27/09/2024	Draft Detailed Project Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Design By : RK	Junction Detail Of Rhenock (NH717A) To Rongli Bazaar (NH717B) (0+000 To 14+589) Minor Junction at CH: 11+880
R1	20/10/2024	Revised as per the Observation				Drawn By : VR	
						Checked By : AH	
						Approved By : SS	
						Scale : NTS	
						Sheet: 14 OF 17	Date : DEC-2024



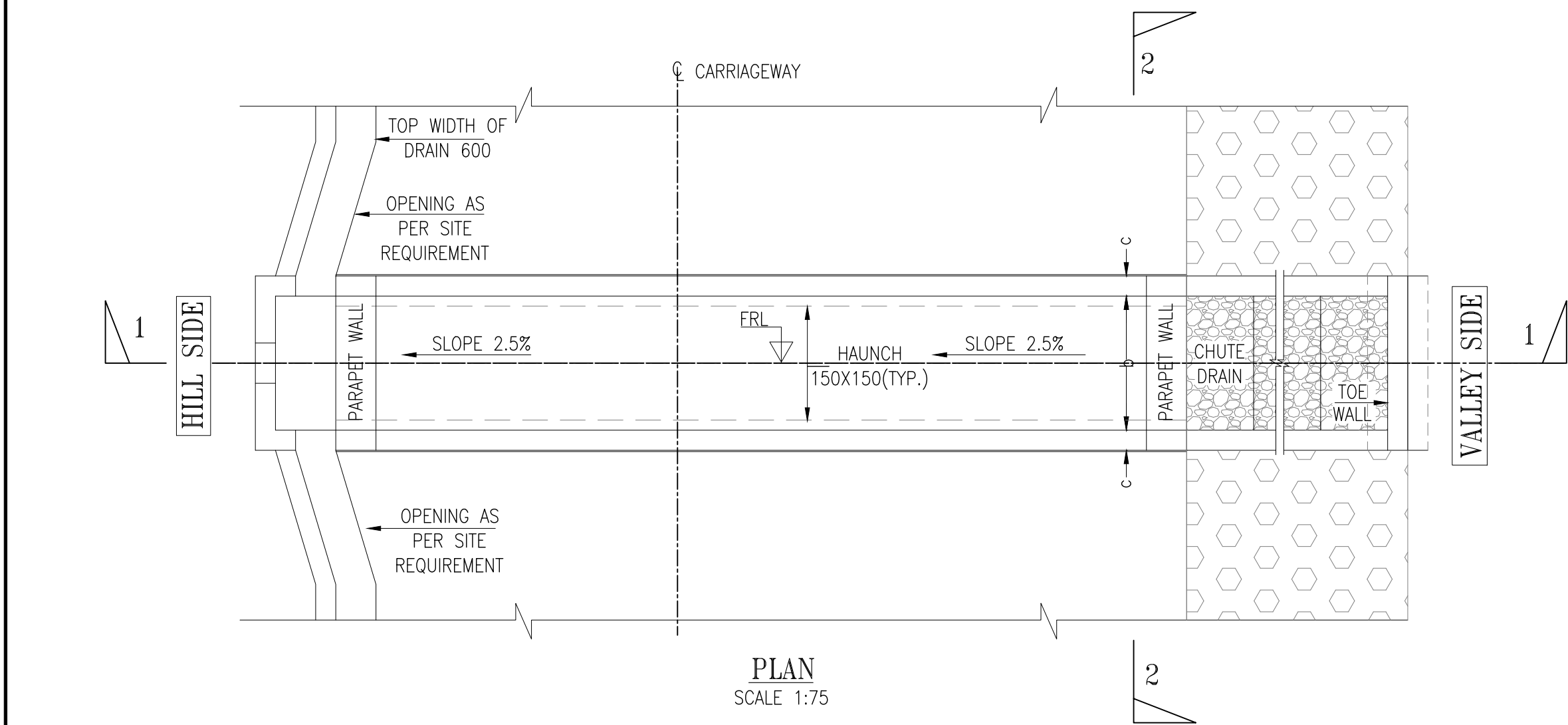
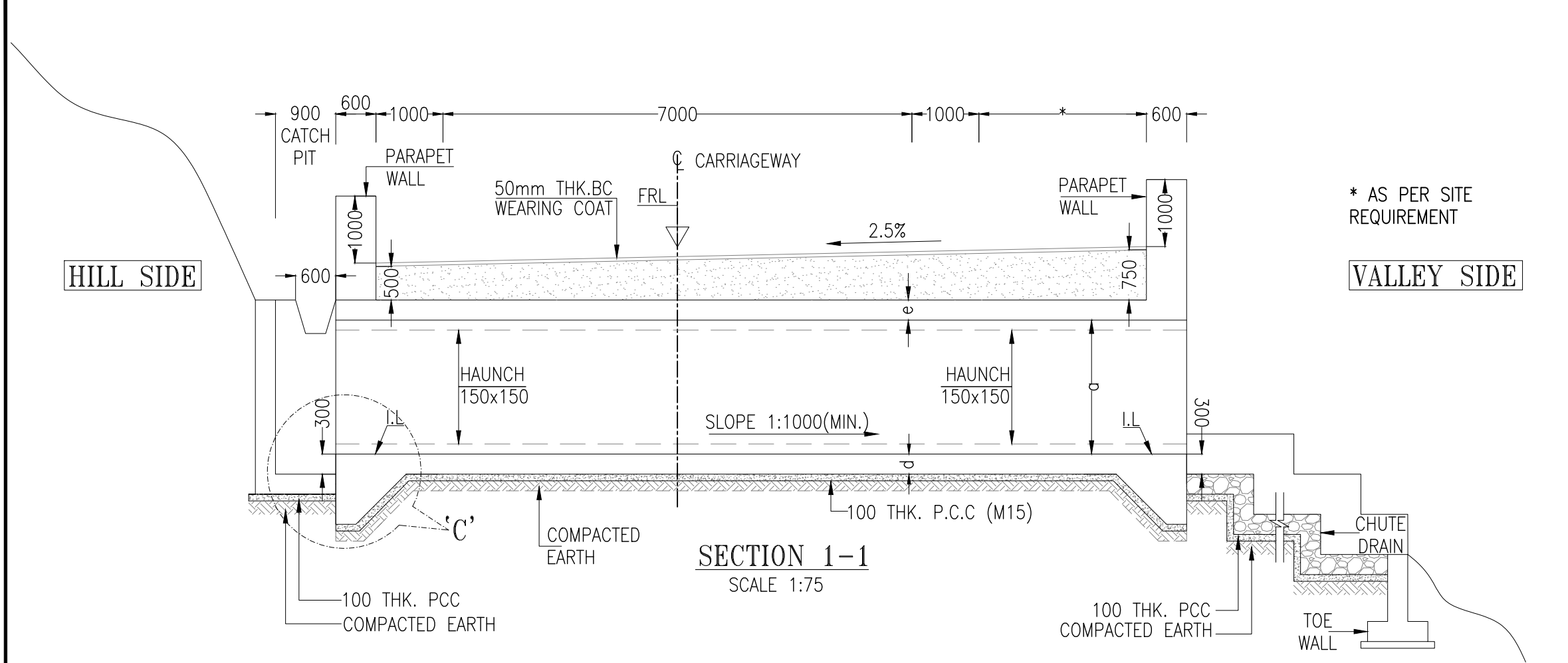
Rev. No.	Date	Description For Revision.	Client:	Design Consultant:	Project :	Design By : RK	Title:	
R0	27/09/2024	Draft Detailed Project Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : VR	Junction Detail Of Rhenock (NH717A) To Rongli Bazzar (NH717B) (0+000 To 14+589) Minor Junction at CH: 13+200	
R1	20/10/2024	Revised as per the Observation				Checked By : AH	Dwg No: XPL/DSD/SIKKIM/KM39.2/JCN-15	
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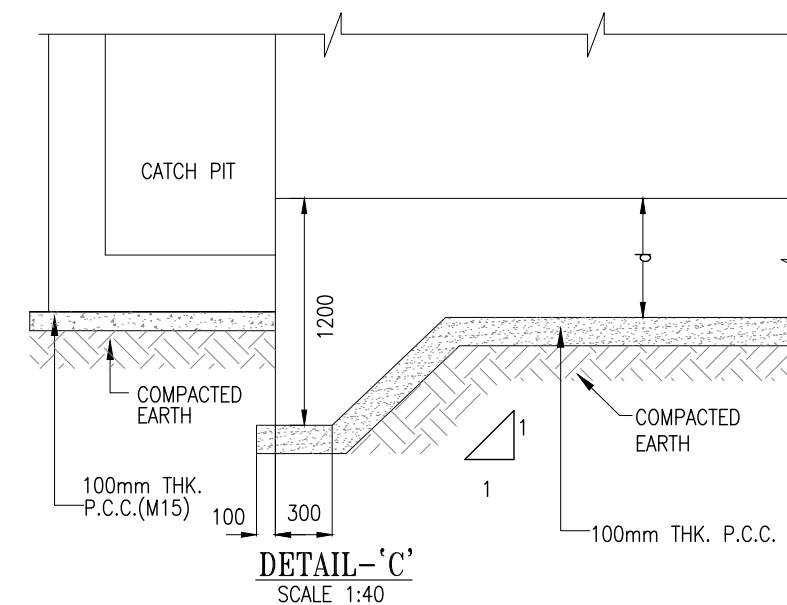
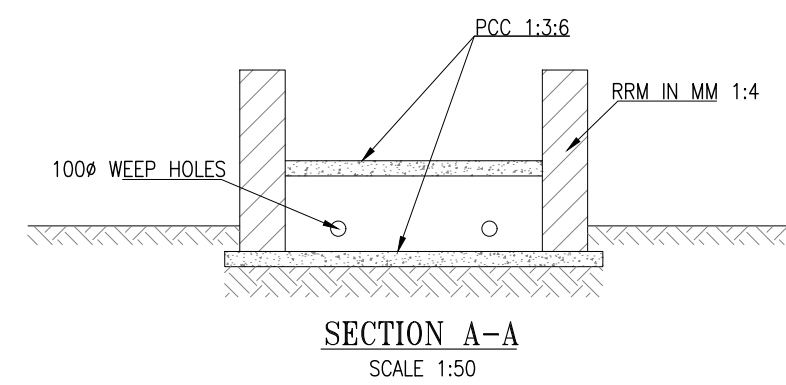
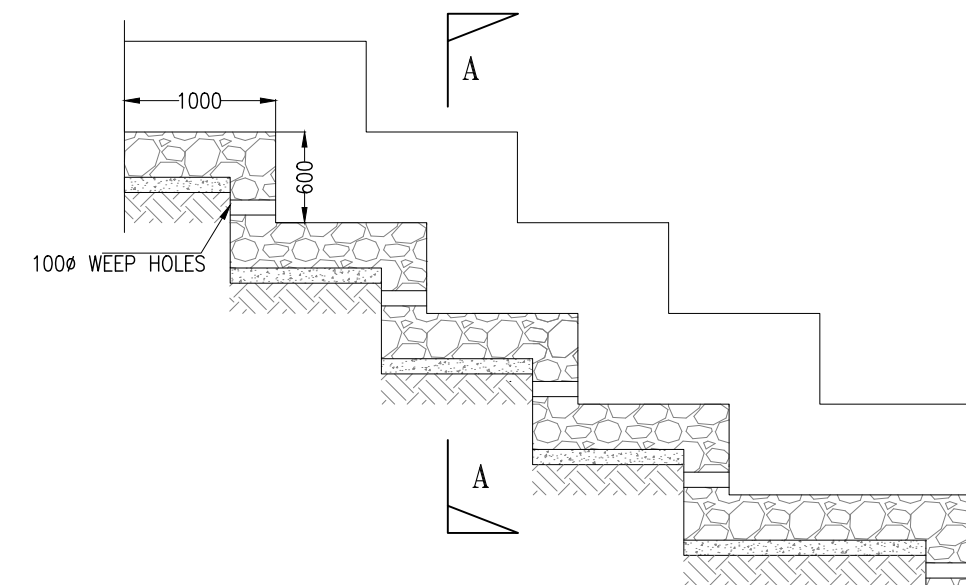
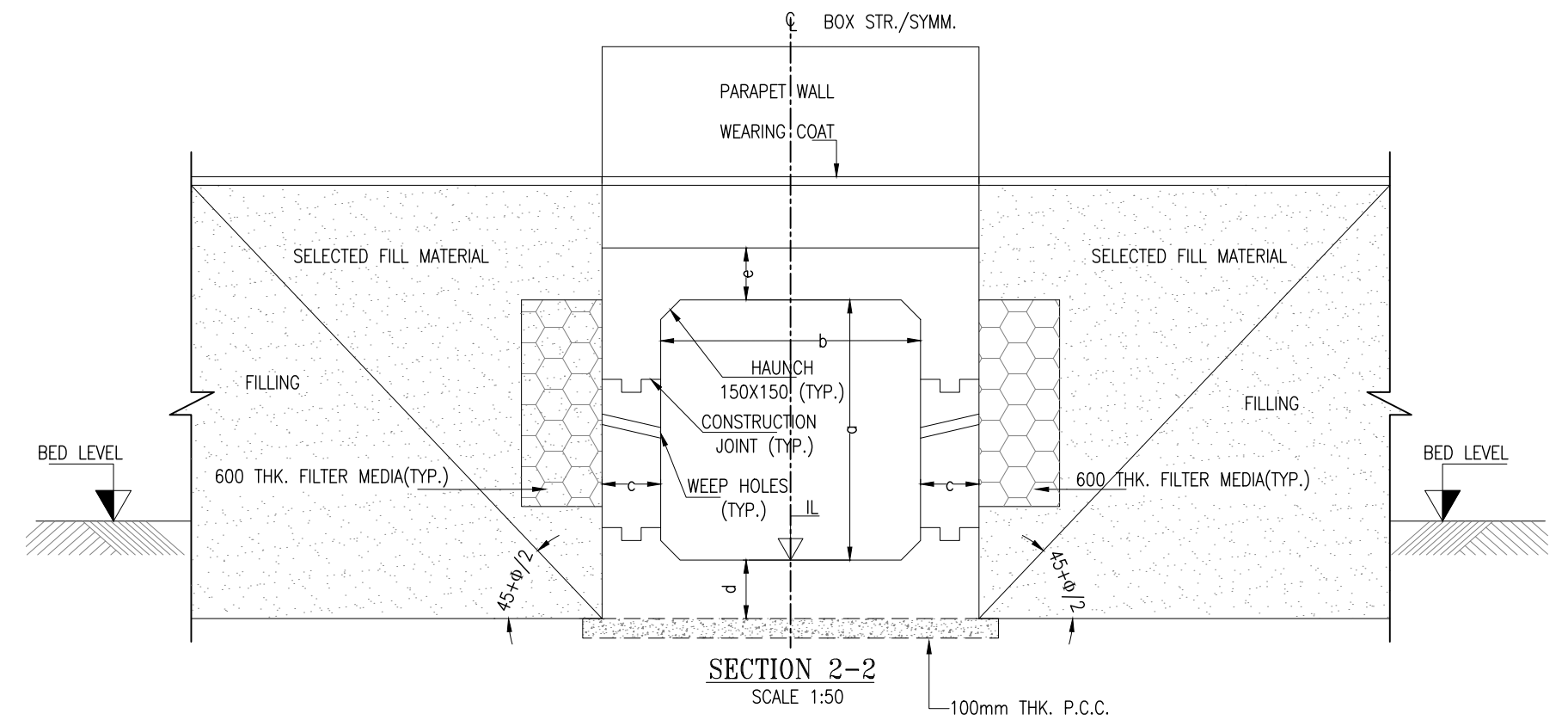
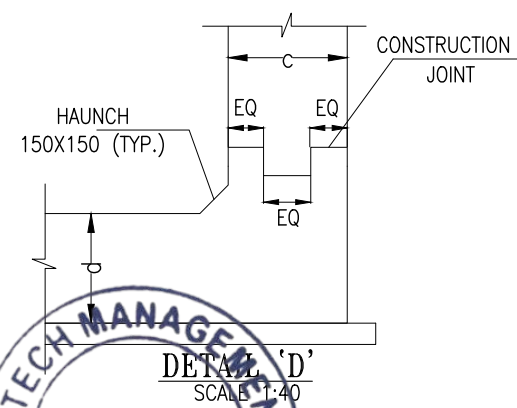
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R0	27/09/2024	Draft Detailed Project Report	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	 Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : VR	Junction Detail Of Rhenock (NH717A) To Rongli Bazaar (NH717B) (0+000 To 14+589) Minor Junction at CH: 14+410	
R1	20/10/2024	Revised as per the Observation				Checked By : AH		
						Approved By : SS	Dwg No: XPL/DSD/SIKKIM/KM39.2/JCN-17	
						Scale : NTS	Sheet: 17 OF 17	Date : DEC-2024

GENERAL ARRANGEMENT DRAWINGS

CULVERT DRAWINGS



S. No.	SPAN ARRANGEMENT	SPAN (a)	CLEAR HEIGHT (b)	SIDE WALL THK. (c)	BOTTOM SLAB THK. (d)	TOP SLAB THK. (e)
1	1X2X2	2	2	0.3	0.3	0.25
2	1X3X3	3	3	0.4	0.4	0.35
3	1X4X3	4	3	0.5	0.5	0.45



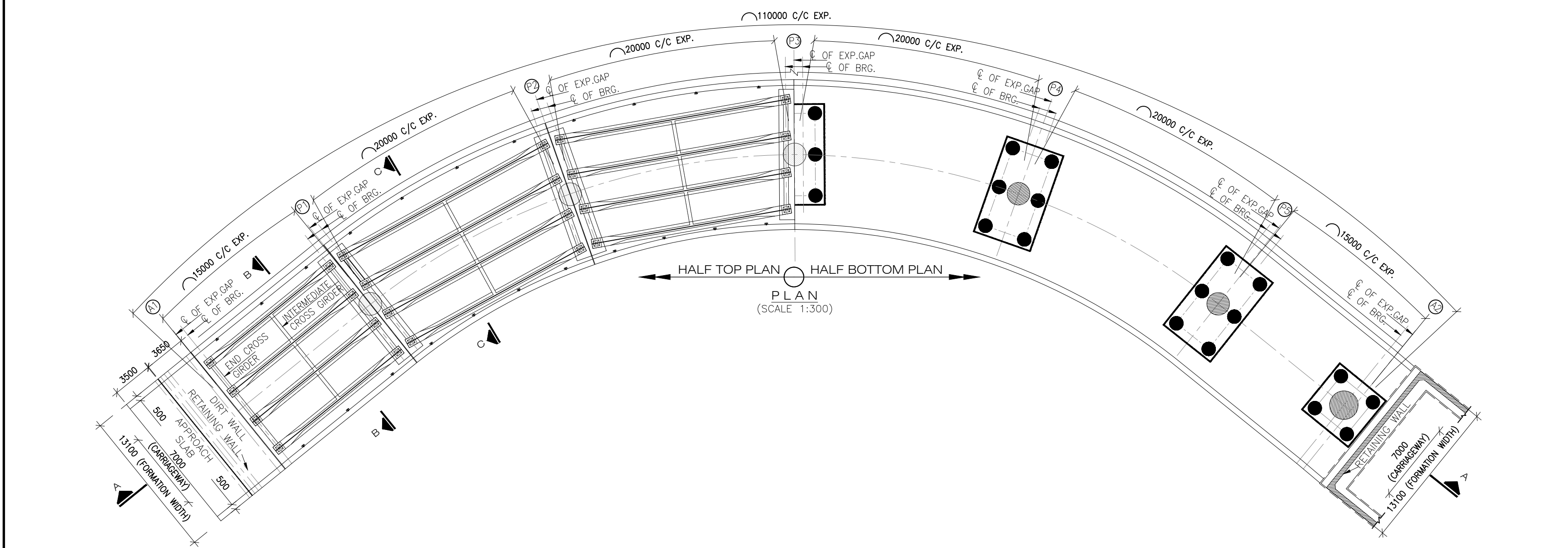
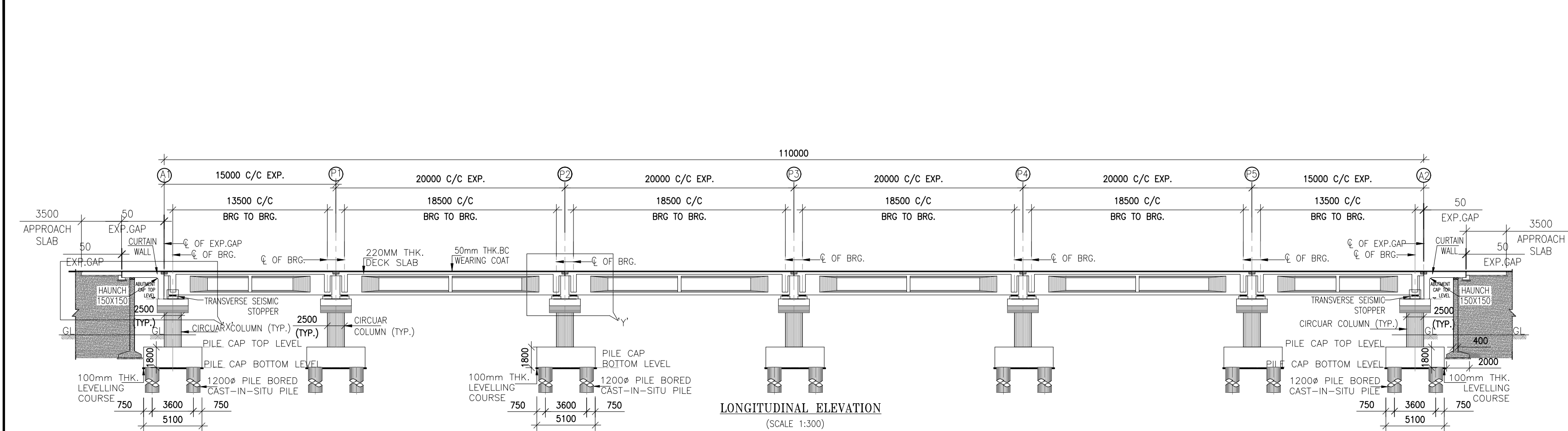
- NOTES:**
- ALL DIMENSIONS ARE IN 'MILLIMETERS', LEVELS ARE IN METERS UNLESS SPECIFIED OTHERWISE.
 - DO NOT MEASURE THE DRAWINGS FOLLOW WRITTEN DIMENSION ONLY.
 - THIS DRAWING TO BE RED IN CONJUNCTION TO THE HIGHWAY DRAWINGS. IF THERE IS ANY DIFFERENCE IN CHAINAGE OR LEVELS, HIGHWAY DRAWING WILL PREVAIL.
 - BACK FILLING BEHIND THE BOX CULVERT SHALL BE PROVIDED WITH SELECTED EARTH CONFORMING TO APPENDIX 6 OF IRC:78-2000 HAVING PROPERTIES $\phi=30^\circ$, $C=0$ GAMMA = 2.0T/SQM.
 - THE STRUCTURE IS DESIGN FOR THREE LANE LOADING AS PER IRC 6:2017
 - CONCRETE GRADES:-

a. RCC BOX CULVERT	M30
b. RCC PARAPET WALL	M30
c. PCC LEVELING COURSE	M15
 - TYPE OF STRUCTURE AND CONSTRUCTION METHODOLOGY CONSIDERED IN

a. RCC BOX STRUCTURE
b. WEARING COAT 50MM (BC) THK.
c. EXPANTION JOINT-POLYSULPHIDE SEAL JOINT.
 - 600MM THK. FILTER MATERIAL BEHIND RCC BOX CULVERT SHALL BE AS PER APPENDIX SIX OF IRC: 78-2014.
 - 100MM DIA P.V.C. PIPE AT SPECING 1000 C/C IN HORIZONTAL AND VERTICAL DIRECTION SHALL BE PROVIDED UPTO 300MM ABOVE GROUND LEVEL FOR WEEP HOLES IN VERTICAL WALL.
 - ALL CONSTRUCTION SHALL CONFIRM TO AS PER MORTH SPECIFICATIONS.
 - COMPACTED EARTH SHOULD CONFIRM TO CLAUSE 305.2.1.5 OF MORTH SPECIFICATIONS.
 - NET BEARING CAPACITY OF SOIL REQUIRED FOR FOUNDATION IS 15T/SQM WHICH SHOULD BE CONFIRMED AND VERIFIED AS SITE BEFORE EXECUTION.

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK	Box Culvert With Catchpit
					Checked By : JS	
					Approved By : VY	Dwg No: XPL/DSD/SK/KM15.3/BC-01
					Scale : As Shown	Sheet: 1 OF 1 Date : Nov-2024 A2

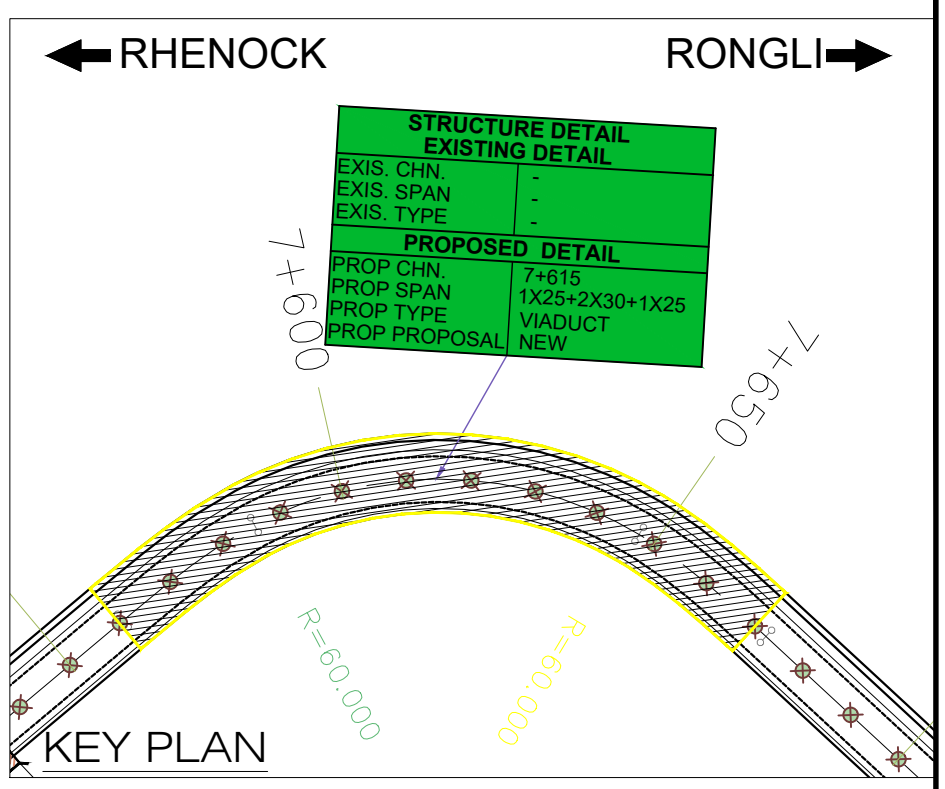
VIADUCT



← NH-717B TO RHENOCK

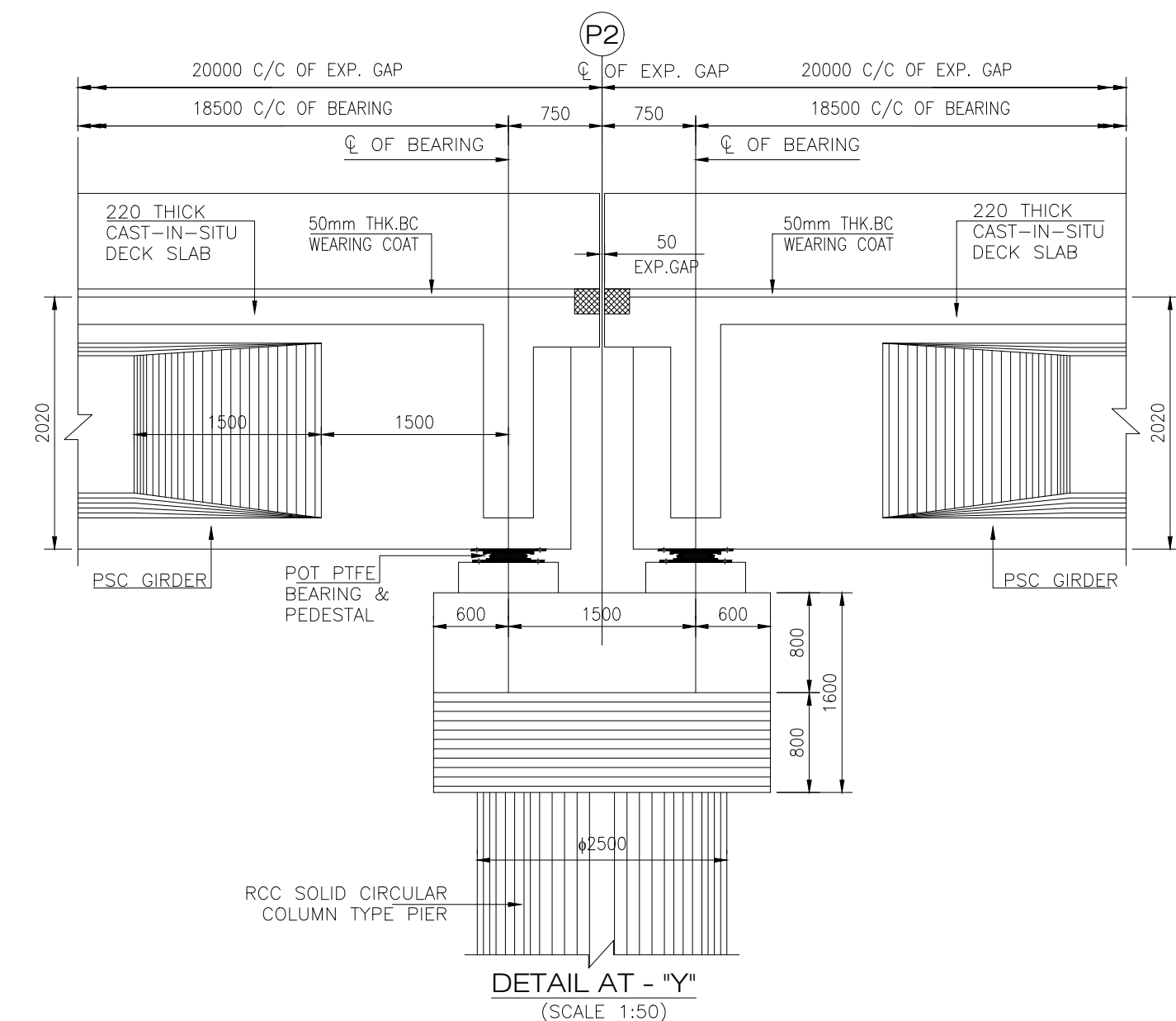
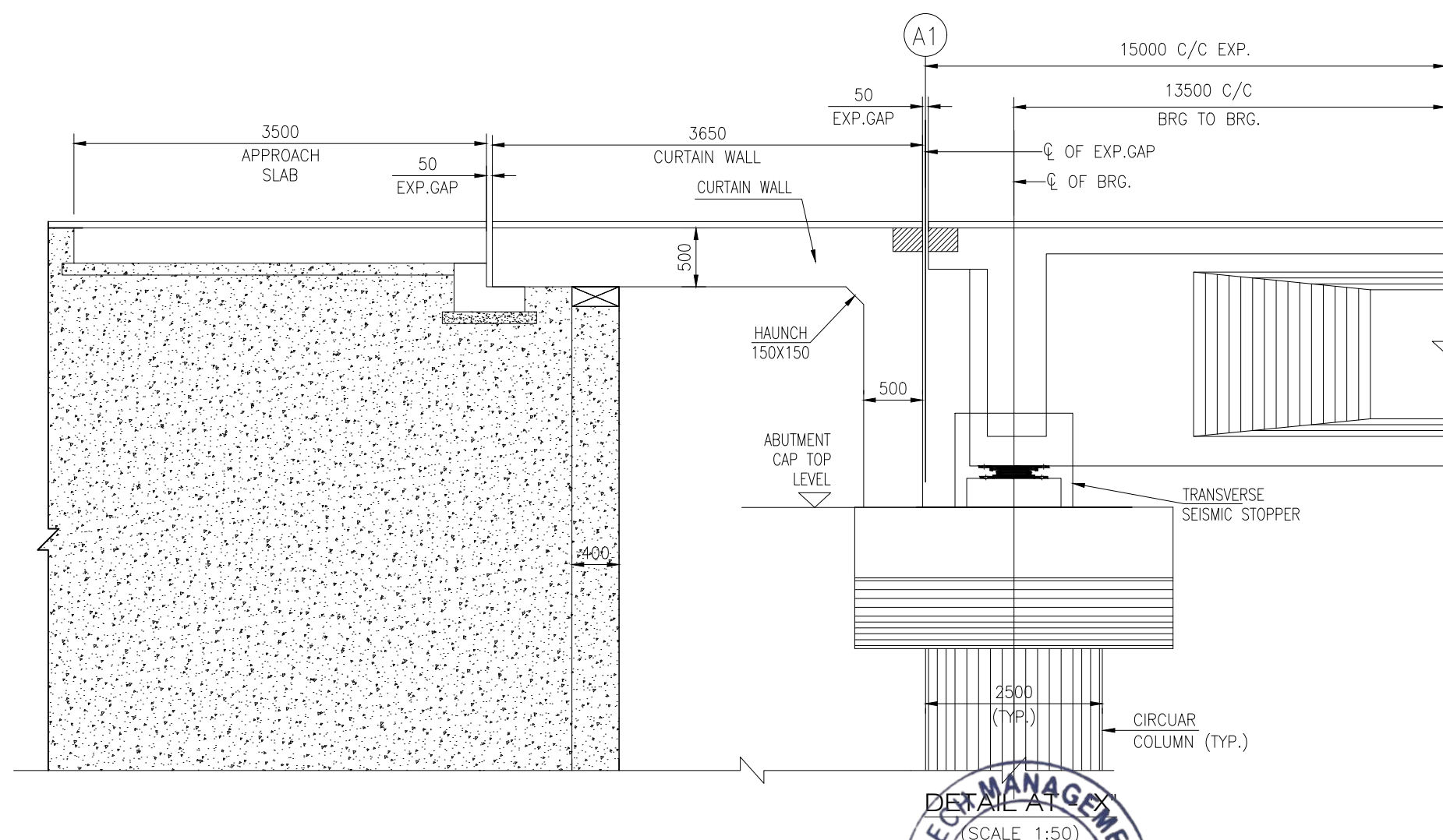
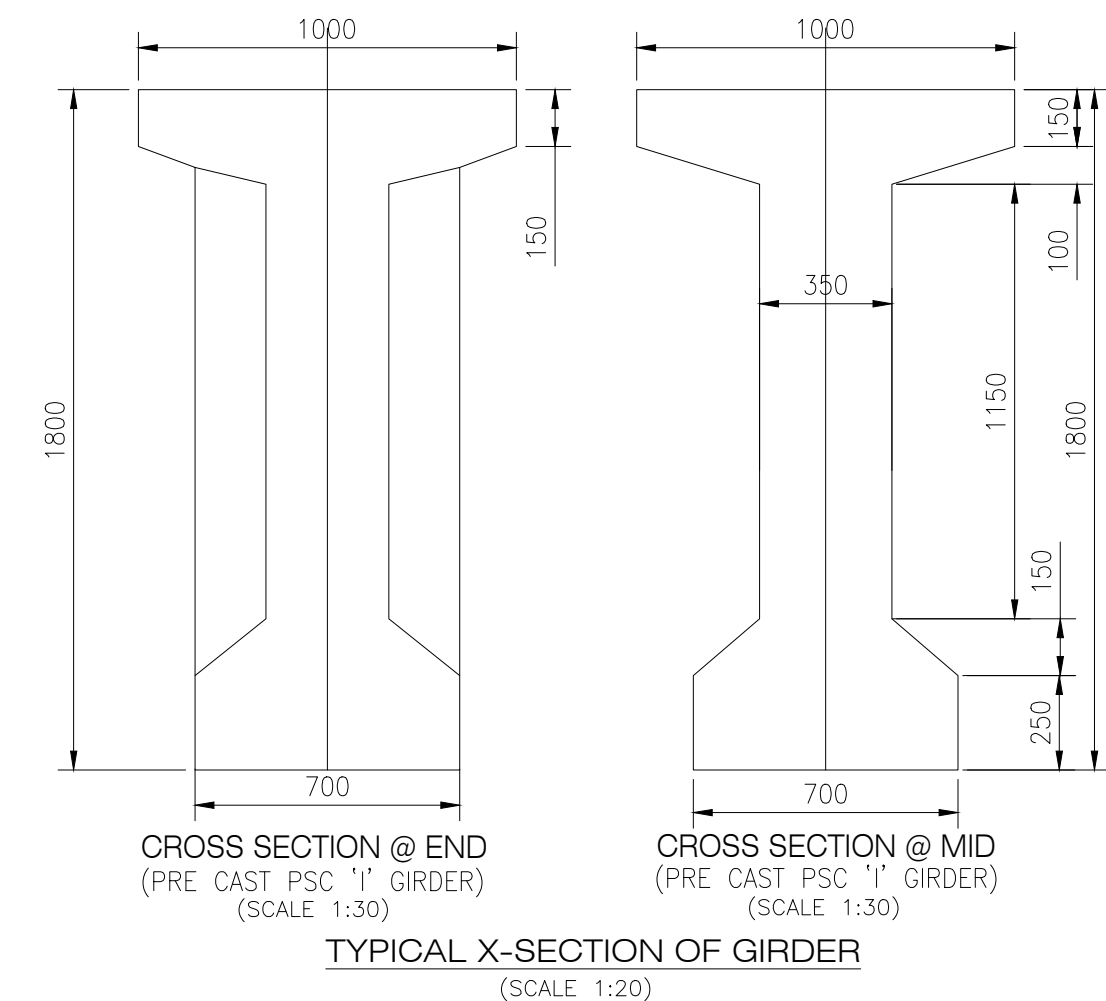
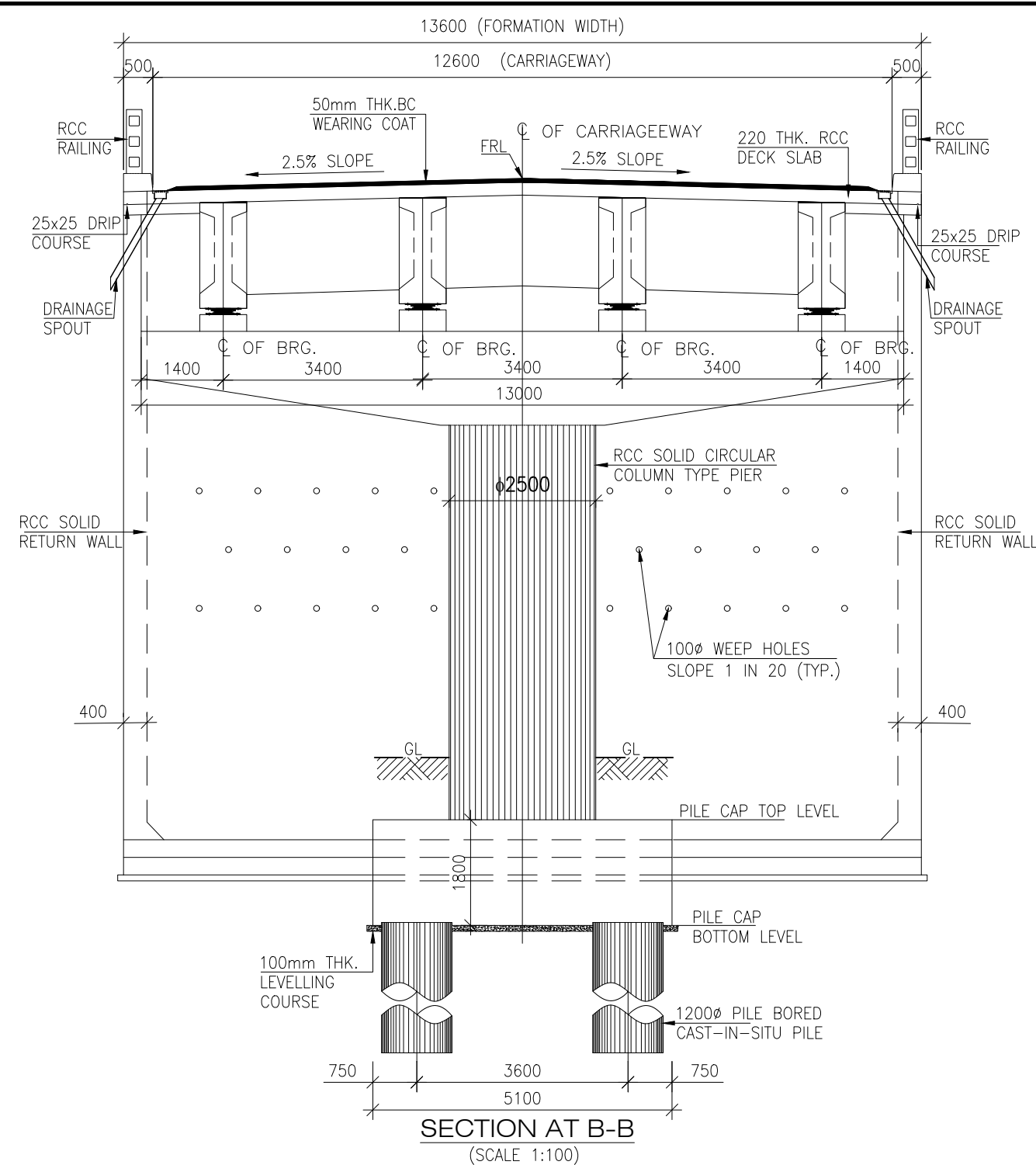
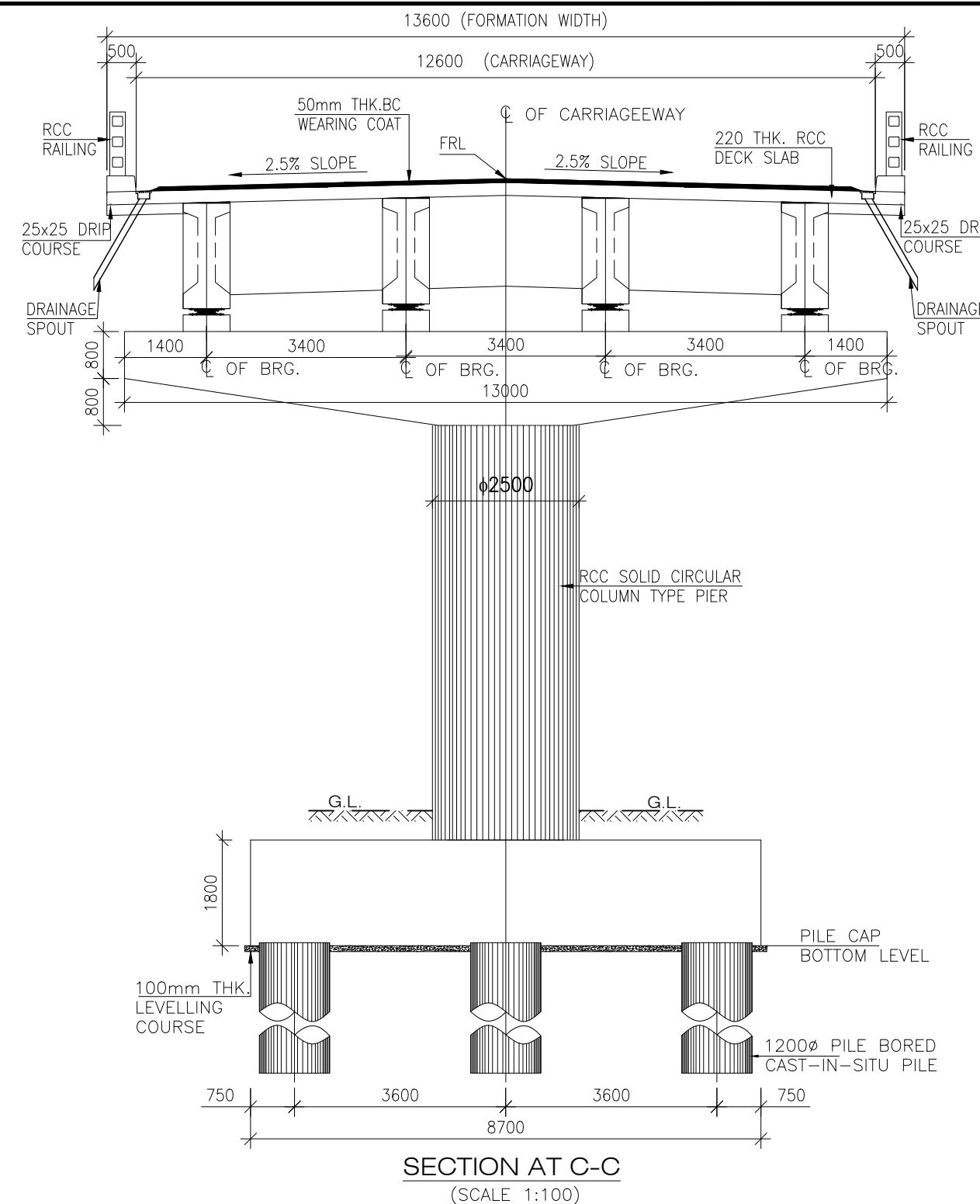
NH-717B TO RONGLI BAZAAR →

LEGEND:-
FDN. LVL - FOUNDING LEVEL
FRL - FINISHED ROAD LEVEL
CL - CENTER LINE
E.J - EXPANSION GAP
BRG - BEARING



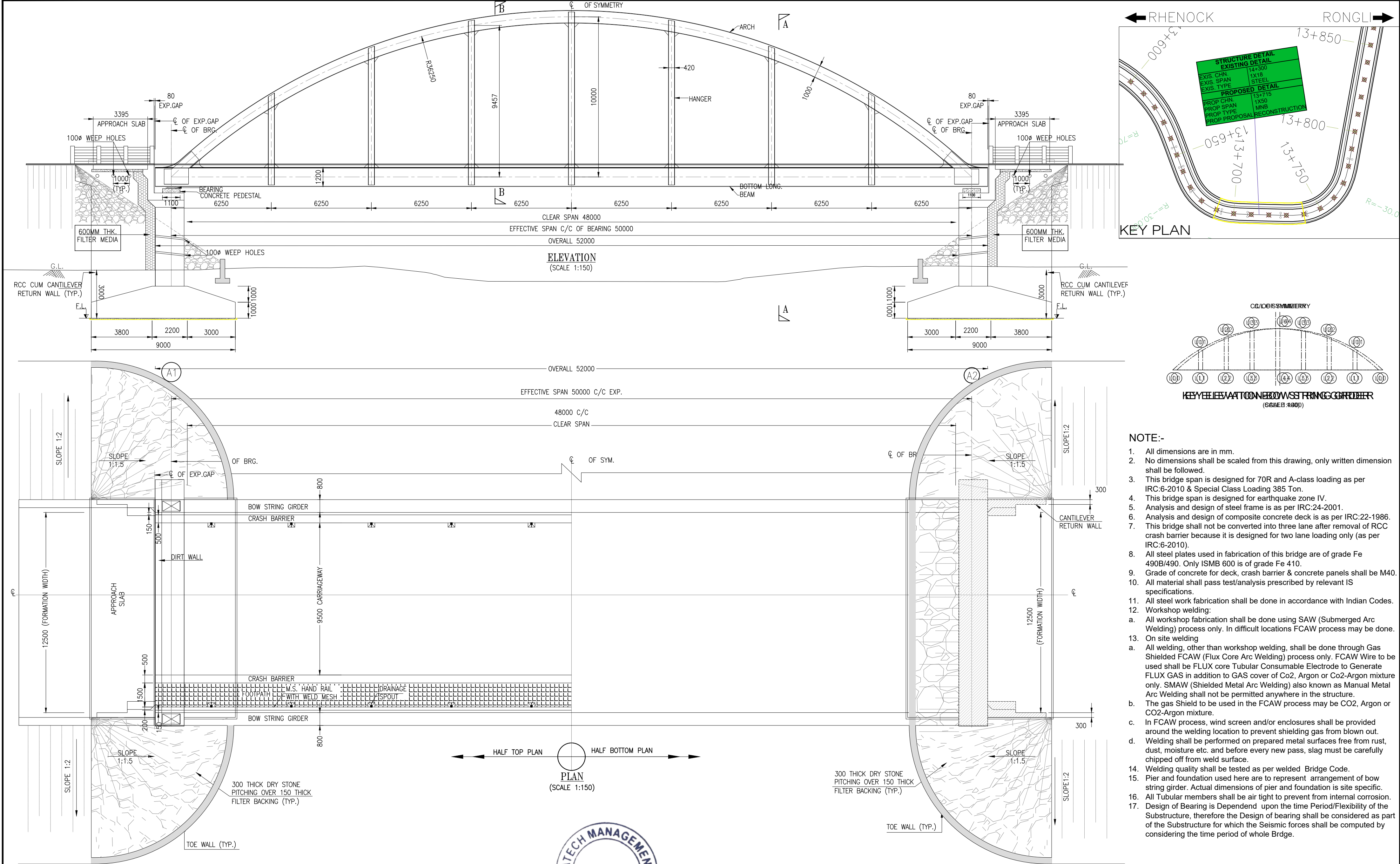
- NOTES:-**
- ALL DIMENSION ARE IN MILLIMETERS, LEVELS IN METERS AND CHAINAGES IN KILOMETERS UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSION TO BE FOLLOWED.
 - CONCRETE SHALL BE DESIGN MIX AND SHALL HAVE MINIMUM 28 DAYS CHARACTERISTIC STRENGTH ON 150mm CUBES FOR ALL ELEMENTS OF STRUCTURES AS INDICATED BELOW:-
 - i) RCC CRASH BARRIER M40
 - ii) RCC CAST-IN-SITU DECK SLAB (SUPERSTRUCTURE) M40
 - iii) PSC GIRDER (SUPERSTRUCTURE)..... M45
 - iv) RCC CROSS GIRDER (SUPERSTRUCTURE) M35
 - v) SUBSTRUCTURE & FOUNDATION M35
 - vi) APPROACH SLAB M30
 - vii) PCC LEVELING (UNDER FOUNDATION) M10
 - viii) PCC LEVELING (UNDER APPROACH SLAB) M15
 - PROPOSED STRUCTURE IS DESIGNED IN ACCORDANCE WITH PROVISION OF CLAUSE 204.3 AND 204.5 OF IRC:6-2017 FOR MOST SEVERE LOADING OF:
 - ONE LANE OF IRC CLASS 70R + SV LOADING AND ONE LANE OF IRC CLASS A OR THREE LANE OF IRC CLASS A LOADING WHEN FOOTPATH IS IN POSITION.
 - ONE LANE OF IRC CLASS 70R + SV LOADING AND ONE LANE OF IRC CLASS-A LOADING OR FOUR LANE OF IRC CLASS A OR TWO LANE OF IRC CLASS 70R + SV LOADING, WHEN FOOTPATH IS REMOVED. FOUR
 - WEARING COAT 65MM THK.
 - CLEAR COVER TO OUTERMOST STEEL SHALL BE AS BELOW:-
 - i) SUPERSTRUCTURE (CAST IN-SITU) 40mm
 - ii) SUB-STRUCTURE 50mm
 - iii) FOUNDATION 75mm
 - HYSD STEEL - FE:500D (CONFORM TO IS:1786)
 - ALL SPACE EXCAVATED AND NOT OCCUPIED BY THE FOUNDATION & OTHER PERMANENT WORK SHALL BE FILLED WITH EARTH UP TO SURFACE OF SURROUNDING GROUND IN ACCORDANCE WITH SECTION 300 OF "MORTH" SPECIFICATION. IN CASE OF EXCAVATION IN ROCK, THE ANNULAR SPACE AROUND FOUNDATION SHALL BE FILLED WITH M15 PCC UP TO THE TOP OF ROCK.
 - STRIP SEAL TYPE EXPANSION JOINTS SHALL BE PROVIDED AS PER MORTH SPECIFICATIONS FOR ROAD AND BRIDGE WORKS.
 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT APPROVED HIGHWAY DRAWINGS FOR STRUCTURE ORIENTATION, SKEW FRL & CAMBER/SUPER ELEVATION, ETC IF ANY DISCREPANCY FOUND IT SHALL BE BROUGHT TO THE NOTICE OF DESIGN CONSULTANT/PROOF CHECKING CONSULTANT.
 - PROPOSED CHAINAGE / FRL SHALL BE CHECKED AND CONFIRMED AS PER APPROVED PLAN & PROFILE.
 - THE PROJECT ROAD FALLS WITHIN SEISMIC ZONE- IV
 - EXPOSURE CONDITION IS MODERATE.
 - VERTICAL CAPACITY OF PILE HAS BEEN CONSIDERED AS 353T. IN NORMAL CASE FOR 1.2M DIA & 15M LONG BORED CAST-IN-SITU PILES AS PER GEOTECH REPORT. HORIZONTAL CAPACITY OF PILE HAS BEEN CONSIDERED AS 50T AS PER GEOTECH REPORT.
 - TYPE OF FOUNDATION & STRUCTURE IS TENTATIVE, IT MAY BE CHANGE, DURING DETAIL DESIGN. THIS GAD ONLY REFER FOR SPAN ARRANGEMENT.
 - BEARING TYPE: POT PTFE.
 - DRAINAGE SPOUT/PIPE SHALL BE PROVIDED IN DECK SLAB AS PER MORTH 2014
 - LEVELS SHOWN IN RESPECTIVE DRAWINGS MUST BE ASCERTAINED/VERIFIED AT SITE. IN CASE OF ANY DEVIATION, DESIGN AND DRAWINGS ARE REQUIRED TO BE REVISED FOR FURTHER REVIEW BEFORE EXECUTION OF WORK.
 - WEEP HOLES OF 100MM DIA SHALL BE PLACED AT 1.0M C/C HORIZONTALLY AND 1.0M C/C VERTICALLY FROM LWL TO H.F.L. IN RETAINING WALLS AND ABUTMENT FOLLOWED IRC 78:2014 AND MORTH SPECIFICATION.
 - BACK FILLING SHALL BE CARRIED OUT WITH SOIL PROPERTIES, C=0.9% & $\phi > 30^\circ$. THE SOIL SHALL BE COMPACTED AT OPTIMUM MOISTURE CONTENT TO 98% PROCTOR DENSITY, SHALL BE CONFIRMED AS PER C:710.1.4 OF IRC 78:2014 AND MORTH SPECIFICATIONS.

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities In Respect Of "Widening And Up-Gradaion Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK	(VIADUCT AT NARROW ZONE-1 AT CH. 7+615 GAD) (SPAN 1X15+4X20+1X15)
					Checked By : JS	
					Approved By : VY	Dwg No: XPL/DSD/SK/KM15.3VIADUCT-01
					Scale : As Shown	Sheet: 1 OF 2 Date : Nov-2024 A2



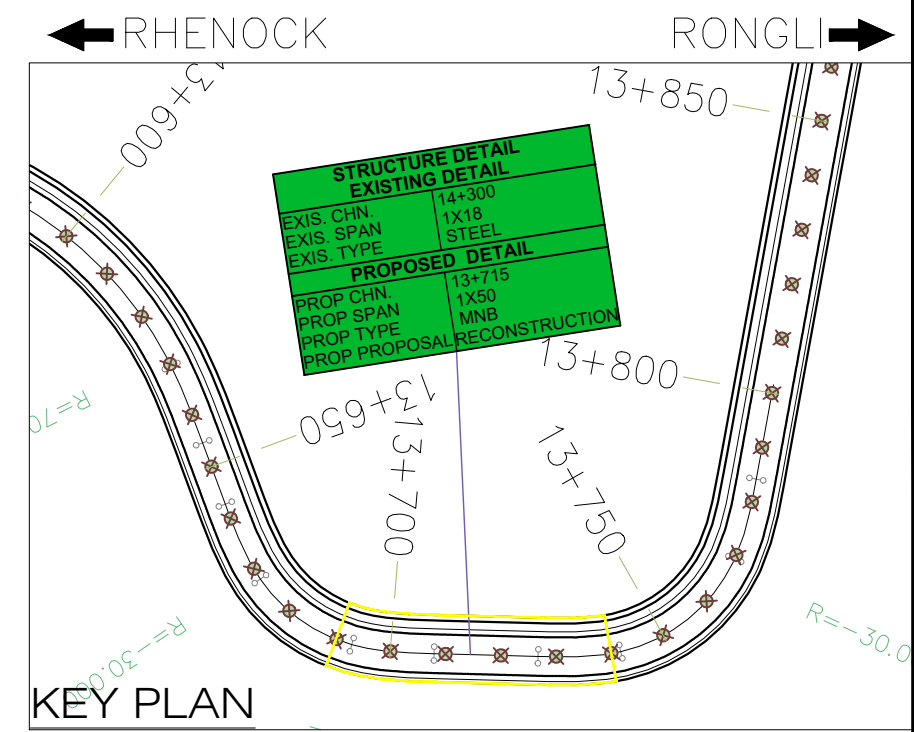
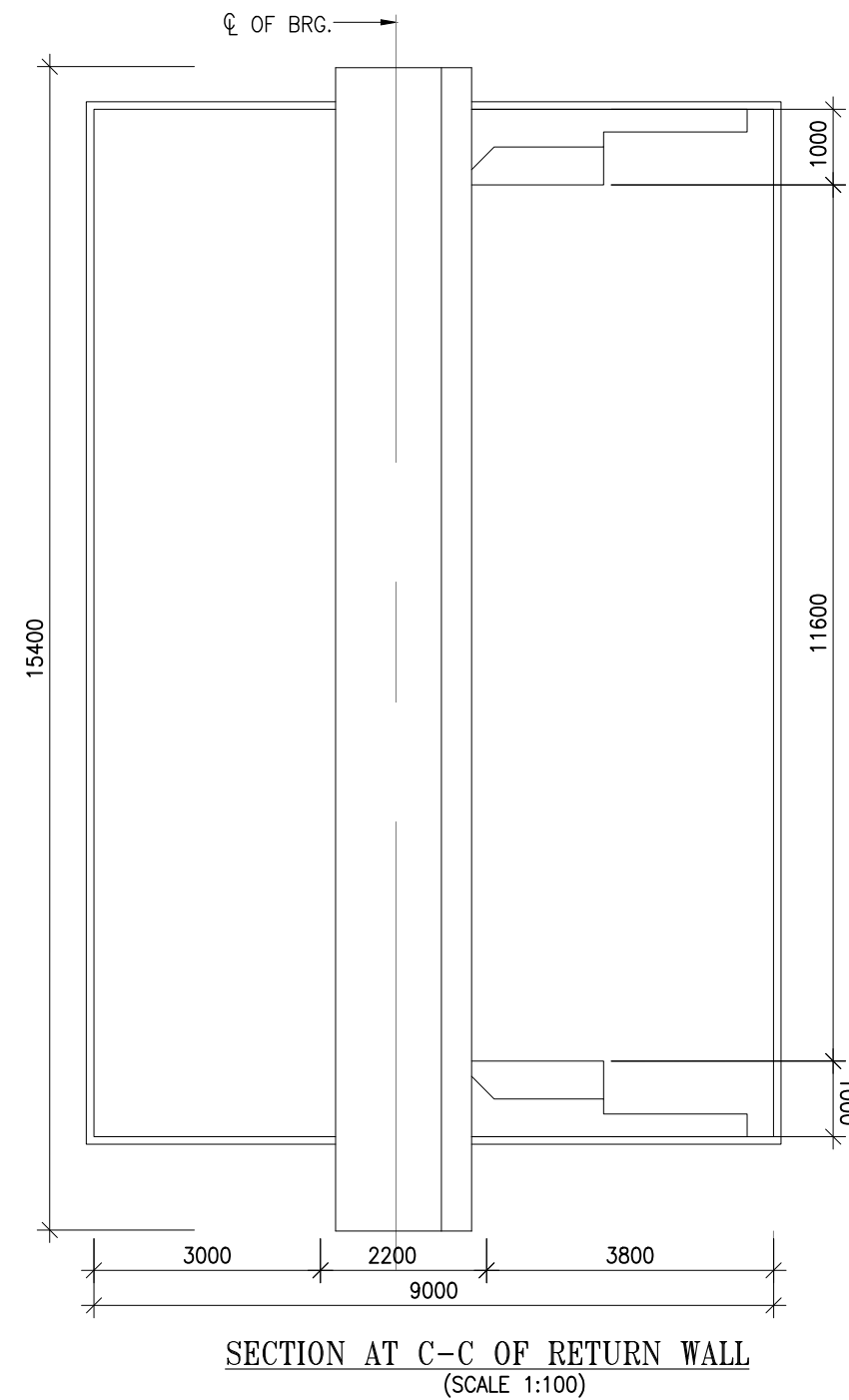
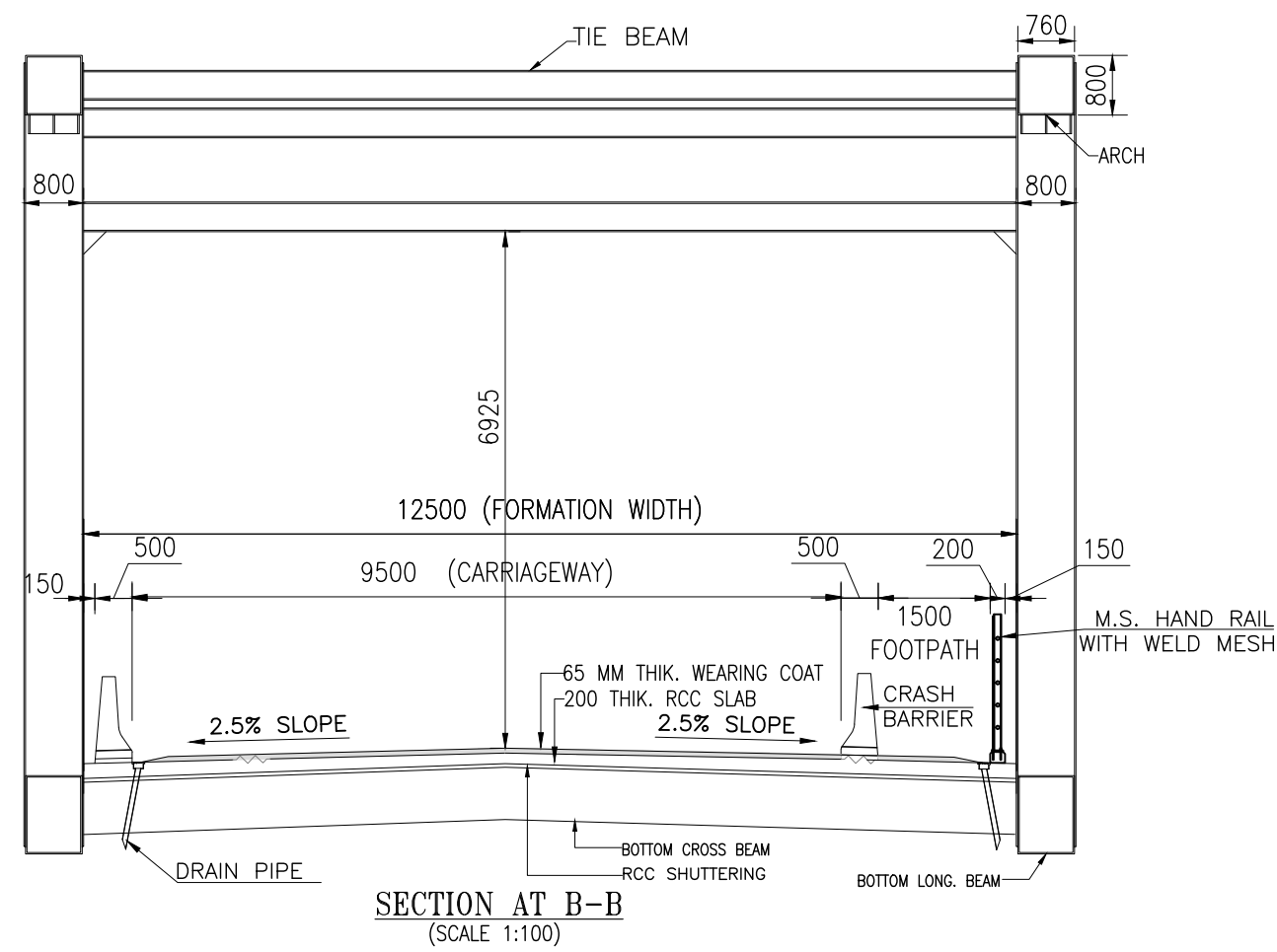
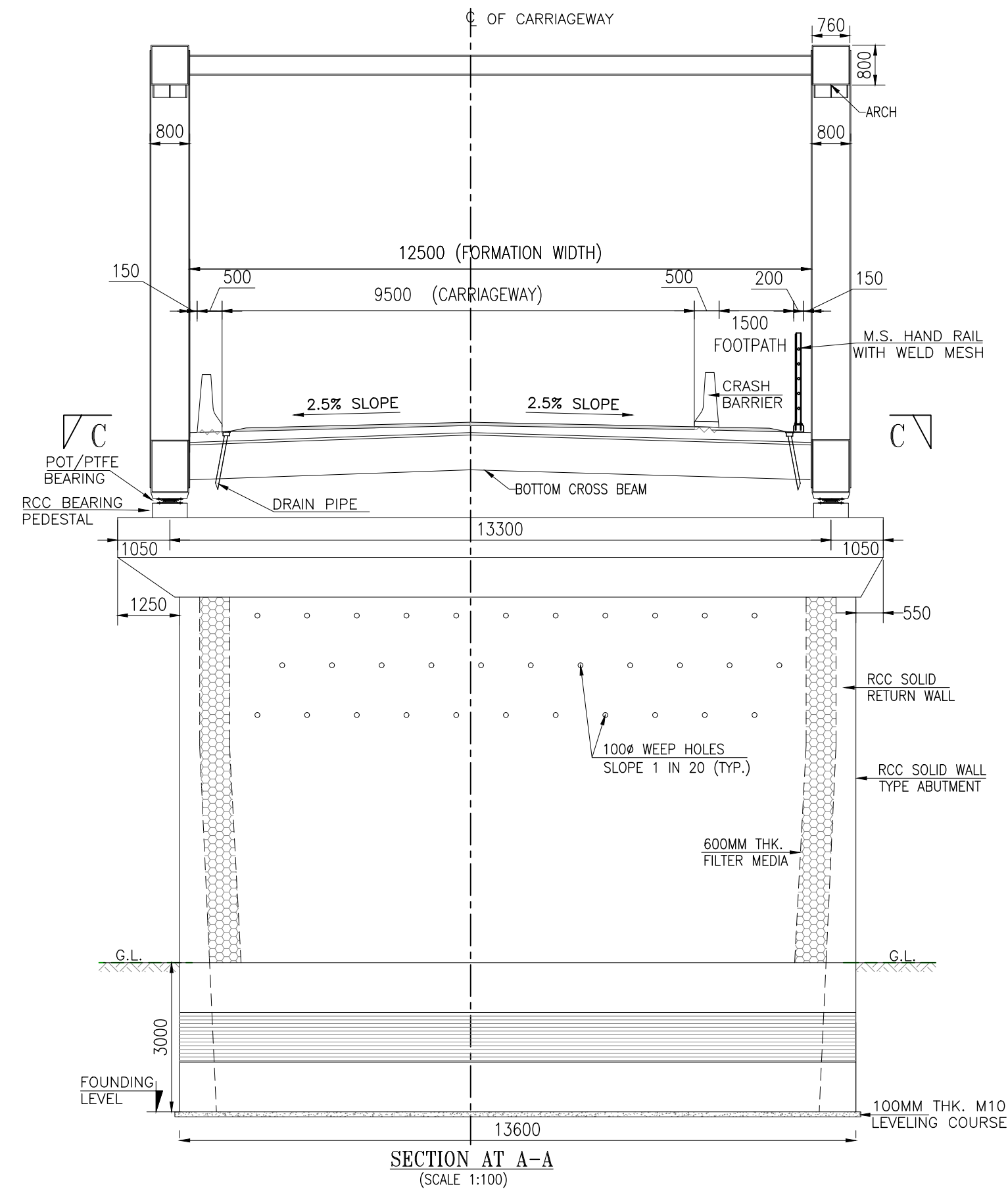
Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:			
		 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK	(VIADUCT AT NARROW ZONE-1 AT CH. 7+615 GAD) (SPAN 1X15+4X20+1X15)			
					Checked By : JS				
					Approved By : VY				
					Scale : As Shown	Sheet:	2 OF 2	Date : Nov-2024	A2

MINOR BRIDGE



- NOTE:-**
- All dimensions are in mm.
 - No dimensions shall be scaled from this drawing, only written dimension shall be followed.
 - This bridge span is designed for 70R and A-class loading as per IRC:6-2010 & Special Class Loading 385 Ton.
 - This bridge span is designed for earthquake zone IV.
 - Analysis and design of steel frame is as per IRC:24-2001.
 - Analysis and design of composite concrete deck is as per IRC:22-1986.
 - This bridge shall not be converted into three lane after removal of RCC crash barrier because it is designed for two lane loading only (as per IRC:6-2010).
 - All steel plates used in fabrication of this bridge are of grade Fe 490B/490. Only ISMB 600 is of grade Fe 410.
 - Grade of concrete for deck, crash barrier & concrete panels shall be M40.
 - All material shall pass test/analysis prescribed by relevant IS specifications.
 - All steel work fabrication shall be done in accordance with Indian Codes.
 - Workshop welding:
 - All workshop fabrication shall be done using SAW (Submerged Arc Welding) process only. In difficult locations FCAW process may be done.
 - On site welding
 - All welding, other than workshop welding, shall be done through Gas Shielded FCAW (Flux Core Arc Welding) process only. FCAW Wire to be used shall be FLUX core Tubular Consumable Electrode to Generate FLUX GAS in addition to GAS cover of Co₂, Argon or Co₂-Argon mixture only. SMAW (Shielded Metal Arc Welding) also known as Manual Metal Arc Welding shall not be permitted anywhere in the structure. The gas Shield to be used in the FCAW process may be CO₂, Argon or CO₂-Argon mixture.
 - In FCAW process, wind screen and/or enclosures shall be provided around the welding location to prevent shielding gas from blown out.
 - Welding shall be performed on prepared metal surfaces free from rust, dust, moisture etc. and before every new pass, slag must be carefully chipped off from weld surface.
 - Welding quality shall be tested as per welded Bridge Code.
 - Pier and foundation used here are to represent arrangement of bow string girder. Actual dimensions of pier and foundation is site specific.
 - All Tubular members shall be air tight to prevent from internal corrosion.
 - Design of Bearing is Dependent upon the time Period/Flexibility of the Substructure, therefore the Design of bearing shall be considered as part of the Substructure for which the Seismic forces shall be computed by considering the time period of whole Bridge.

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	DELHI National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gratation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK	MINOR BRIDGE (GAD) BOW STRING STEEL GIRDER AT CH:13+715 - SPAN 1X50
					Checked By : JS	
					Approved By : VY	Dwg No: XPL/DSD/SK/KM15.3/MNB-01
					Scale : As Shown	Sheet: 1 OF 2 Date : Nov-2024 A2



1. TYPE OF BRIDGE - BOW STRING
2. LENGTH OF BRIDGE - 50 Mtr.
3. SPAN ARRANGEMENT OF BRIDGE - 1NOS.@50 Mtr, C/C
4. OVERALL WIDTH - 12.5 Mtr.
5. CLEAR ROADWAY - 9.5 Mtr.
6. FORMATION LEVEL - RL- 842.500 Mtr.
7. TYPE OF FOUNDATION - OPEN
8. PROPOSED FOUNDATION LEVEL (i) ABUTMENT
9. TYPE OF BEARINGS - SPHERICAL
10. TYPE OF EXPANSION JOINT - FILLER TYPE
11. APPROACH SLAB - RCC
12. S.B.C - 33.2 T/M2.

NOTE:-

1. All dimensions are in mm.
2. No dimensions shall be scaled from this drawing, only written dimension shall be followed.
3. This bridge span is designed for 70R and A-class loading as per IRC:6-2010 & Special Class Loading 385 Ton.
4. This bridge span is designed for earthquake zone IV.
5. Analysis and design of steel frame is as per IRC:24-2001.
6. Analysis and design of composite concrete deck is as per IRC:22-1986.
7. This bridge shall not be converted into three lane after removal of RCC crash barrier because it is designed for two lane loading only (as per IRC:6-2010).
8. All steel plates used in fabrication of this bridge are of grade Fe 490B/490. Only ISMB 600 is of grade Fe 410.
9. Grade of concrete for deck, crash barrier & concrete panels shall be M40.
10. All material shall pass test/analysis prescribed by relevant IS specifications.
11. All steel work fabrication shall be done in accordance with Indian Codes.
12. Workshop welding:
 - a. All workshop fabrication shall be done using SAW (Submerged Arc Welding) process only. In difficult locations FCAW process may be done.
13. On site welding
 - a. All welding, other than workshop welding, shall be done through Gas Shielded FCAW (Flux Core Arc Welding) process only. FCAW Wire to be used shall be FLUX core Tubular Consumable Electrode to Generate FLUX GAS in addition to GAS cover of Co2, Argon or Co2-Argon mixture only. SMAW (Shielded Metal Arc Welding) also known as Manual Metal Arc Welding shall not be permitted anywhere in the structure.
 - b. The gas Shield to be used in the FCAW process may be CO2, Argon or CO2-Argon mixture.
 - c. In FCAW process, wind screen and/or enclosures shall be provided around the welding location to prevent shielding gas from blown out.
 - d. Welding shall be performed on prepared metal surfaces free from rust, dust, moisture etc. and before every new pass, slag must be carefully chipped off from weld surface.
14. Welding quality shall be tested as per welded Bridge Code.
15. Pier and foundation used here are to represent arrangement of bow string girder. Actual dimensions of pier and foundation is site specific.
16. All Tubular members shall be air tight to prevent from internal corrosion.
17. Design of Bearing is Dependend upon the time Period/Flexibility of the Substructure, therefore the Design of bearing shall be considered as part of the Substructure for which the Seismic forces shall be computed by considering the time period of whole Bridge.

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	DELHI National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK	MINOR BRIDGE (GAD) BOW STRING STEEL GIRDER AT CH:13+715 - SPAN 1X50
					Checked By : JS	
					Approved By : VY	Dwg No: XPL/DSD/SK/KM15.3/MNB-02
					Scale : As Shown	Sheet: 2 OF 2 Date : Nov-2024 A2

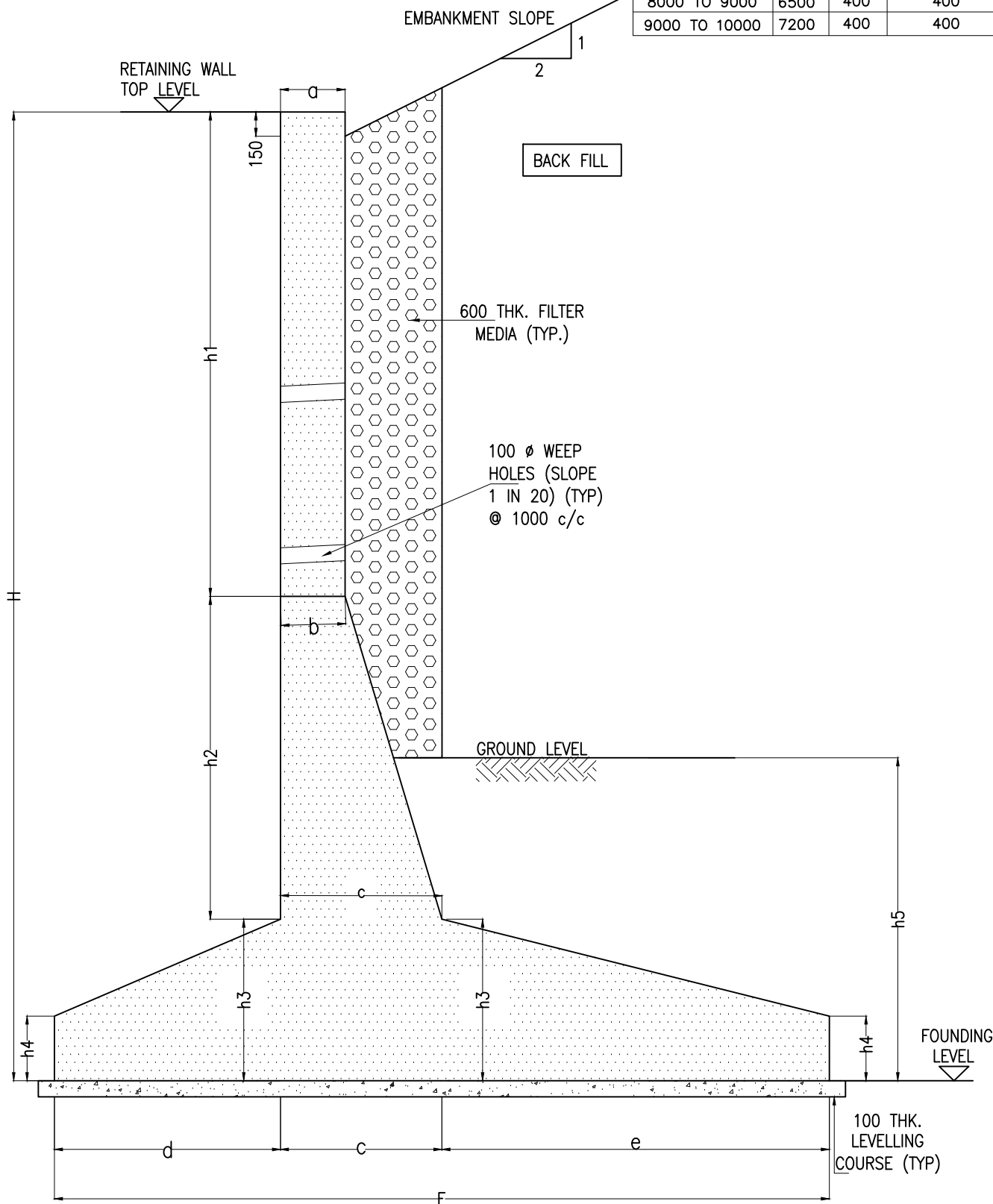
BREAST WALL & RETAINING WALL

TABLE 1: SCHEDULE OF DIMENSIONS
SCHEDULE OF DIMENSIONS (mm)

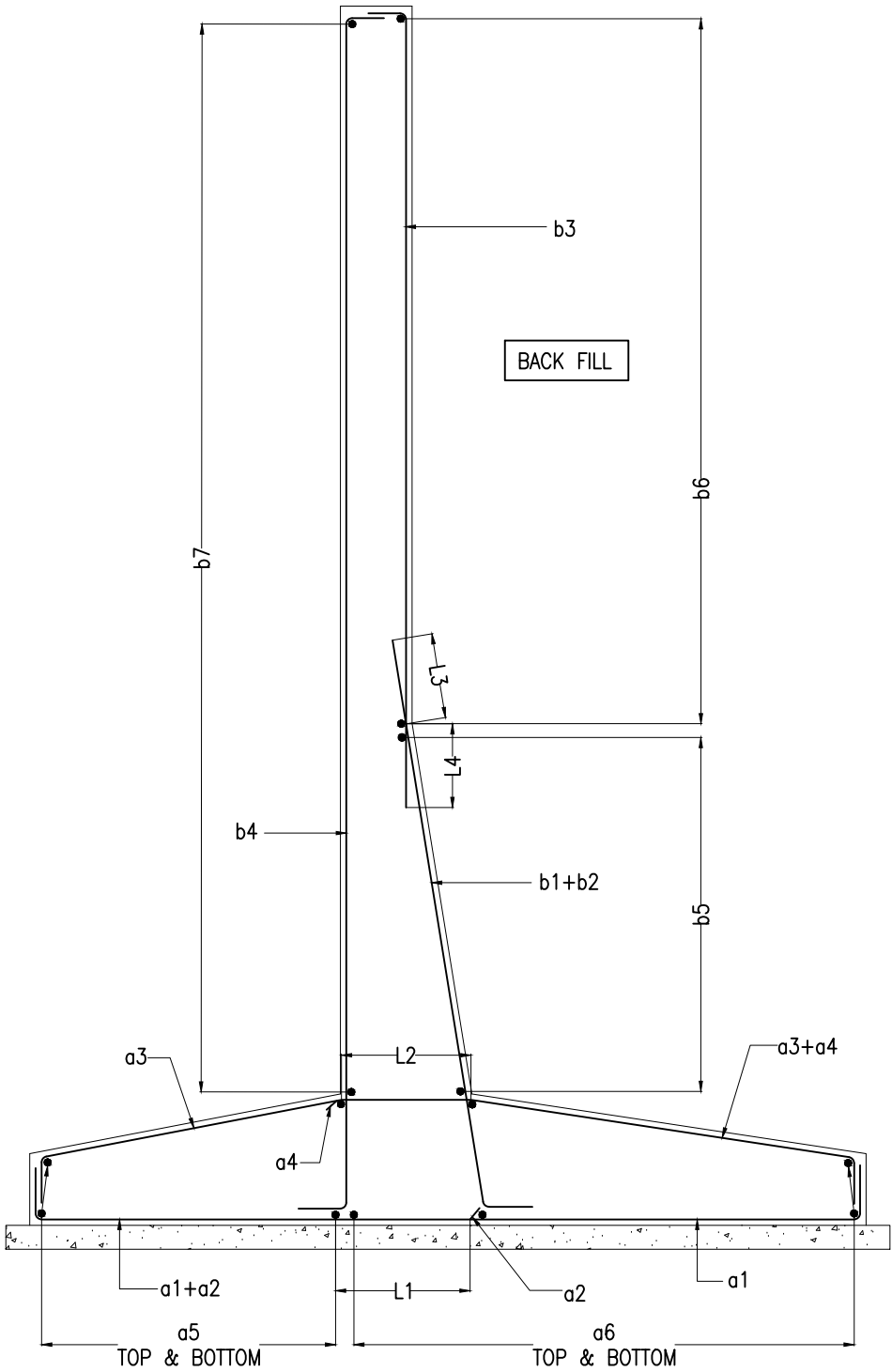
TOTAL HEIGHT 'H'	BASE WIDTH 'F'	AT TOP 'a'	STEM THICKNESS AT START OF VARYING SECTION 'b'	AT JUNCTION 'c'	HEIGHT FROM TOP TO STARTING OF VARIABLE SECTION 'h1'	HEIGHT OF VARIABLE SECTION FROM JUNCTION 'h2'	TOE WIDTH 'd'	TOE THICKNESS		HEEL WIDTH 'e'	DEPTH BELOW EGL 'h5'
								AT EDGE 'h4'	AT JUNCTION 'h3'		
7000 TO 8000	5300	400	400	1100	3000	4000	2000	400	750	2200	2000
8000 TO 9000	6500	400	400	1150	3000	5000	2900	400	1150	2300	2000
9000 TO 10000	7200	400	400	1300	3000	6000	3200	400	1300	2900	2000

NOTES :-

1. ALL DIMENSIONS ARE IN MILLIMETER AND LEVELS IN METER UNLESS NOTED OTHERWISE.
2. DIMENSIONS ARE NOT TO BE SCALED, ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. GRADE OF CONCRETE FOR DIFFERENT COMPONENTS SHALL BE (i) RETAINING WALL ----- M30
4. CLEAR COVER TO OUTERMOST REINFORCEMENT SHALL BE (i) RETAINING WALL ----- (EARTH FACE) 75MM (NON EARTH FACE) 50MM
5. ALL REINFORCING BARS SHALL BE THERMO MECHANICALLY TREATED (TMT) BARS (GRADE DESIGNATION Fe-500D) CONFORMING TO IS:1786 STANDARDS.
6. LAPPING OF REINFORCEMENT SHALL BE AVOIDED AS FAR AS POSSIBLE. IN CASE LAPPING OF REINFORCEMENT BARS BECOMES UNAVOIDABLE, MINIMUM LAP LENGTH OF REINFORCEMENT BARS SHALL BE 56 TIMES OF DIA OF SMALLER BARS. NOT MORE THAN 50% BARS SHALL BE LAPPED AT A SECTION.
7. ALL LAPS SHALL BE SUITABLY STAGGERED AND MINIMUM C/C DISTANCE BETWEEN THE ADJACENT LAPS SHALL BE 1.3 TIMES OF LAP LENGTH.



TYPICAL CROSS SECTION OF RETAINING WALL
(SHOWING DIMENSIONS REFER TABLE 1)



TYPICAL CROSS SECTION OF RETAINING WALL
(SHOWING REINFORCEMENT REFER TABLE 2)

TABLE 2: SCHEDULE OF REINFORCEMENT

REINFORCEMENT DETAILS					
S.N.	BAR MARK	BAR SHAPE	HEIGHT 7000 TO 8000	HEIGHT 8000 TO 9000	HEIGHT 9000 TO 10000
1	a1		ϕ 25-200	ϕ 25-200	ϕ 32-200
2	a2		ϕ 20-200	ϕ 25-200	ϕ 25-200
3	a3		ϕ 20-200	ϕ 25-200	ϕ 25-200
4	a4		ϕ 20-200	ϕ 20-200	ϕ 25-200
5	a5		ϕ 16-200	ϕ 16-200	ϕ 16-150
6	a6		ϕ 16-200	ϕ 16-200	ϕ 16-150
7	b1		ϕ 25-200	ϕ 25-200	ϕ 32-200
8	b2		ϕ 20-200	ϕ 25-200	ϕ 25-200
9	b3		ϕ 16-200	ϕ 16-200	ϕ 20-200
10	b4		ϕ 12-220	ϕ 12-220	ϕ 12-220
11	b5		ϕ 12-200	ϕ 12-200	ϕ 12-150
12	b6		ϕ 12-200	ϕ 12-200	ϕ 12-150
13	b7		ϕ 12-200	ϕ 12-200	ϕ 12-150
	L1	mm	1000	1200	1500
	L2	mm	1000	1200	1500
	L3	mm	1000	1200	1500
	L4	mm	1000	1200	1500

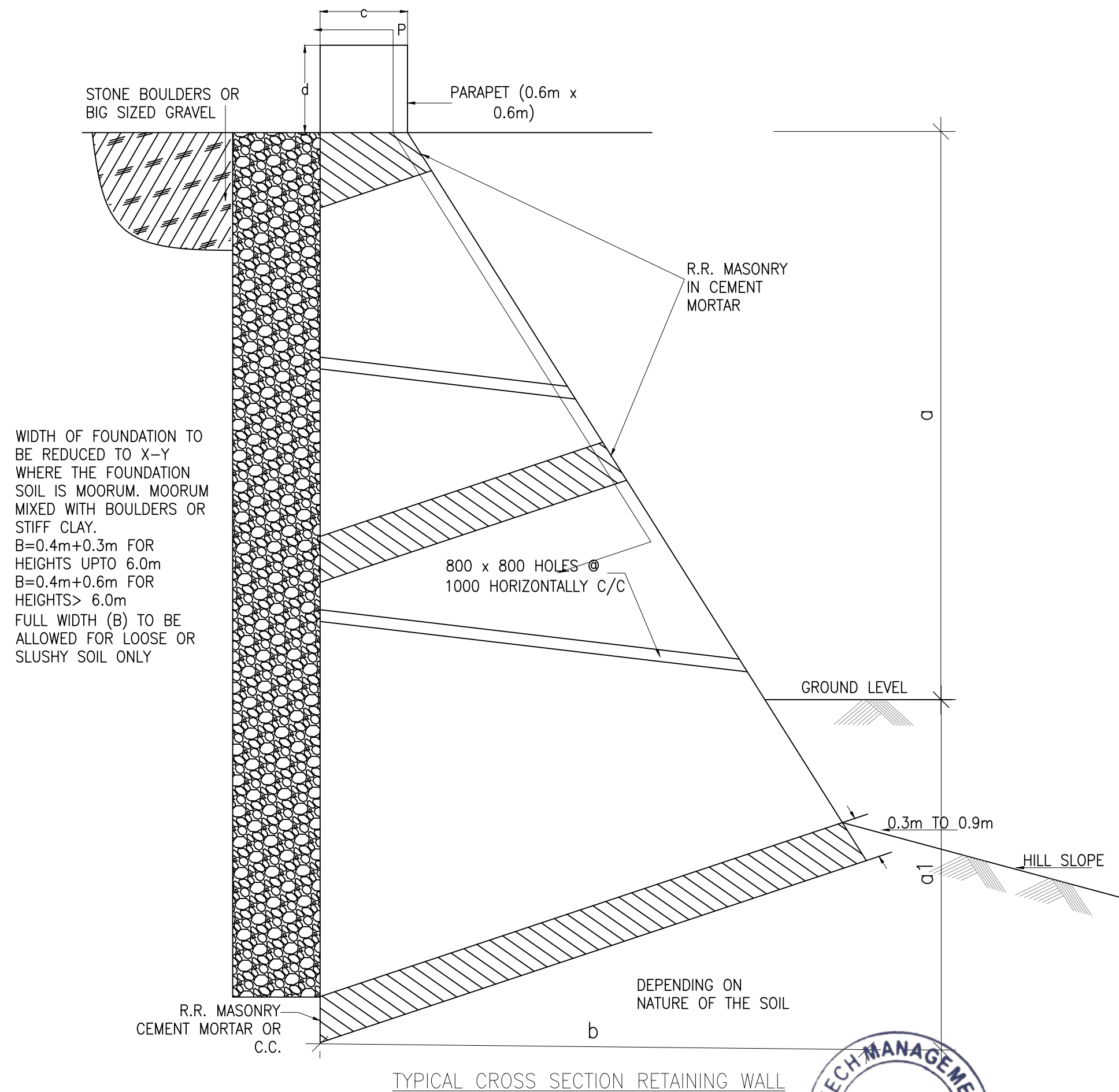
Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title: DETAIL DRAWING OF RETAINING WALL WITH REINFORCEMENT (HEIGHT-7000mm TO 10000mm)		
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK			
					Checked By : JS			
					Approved By : VY	Dwg No: XPL/DSD/SK/KM15.3/RW/01		
					Scale :	Sheet: - 1 of 1	Date : Nov-2024	A2

SCHEDULE OF DIMENSIONS (mm)

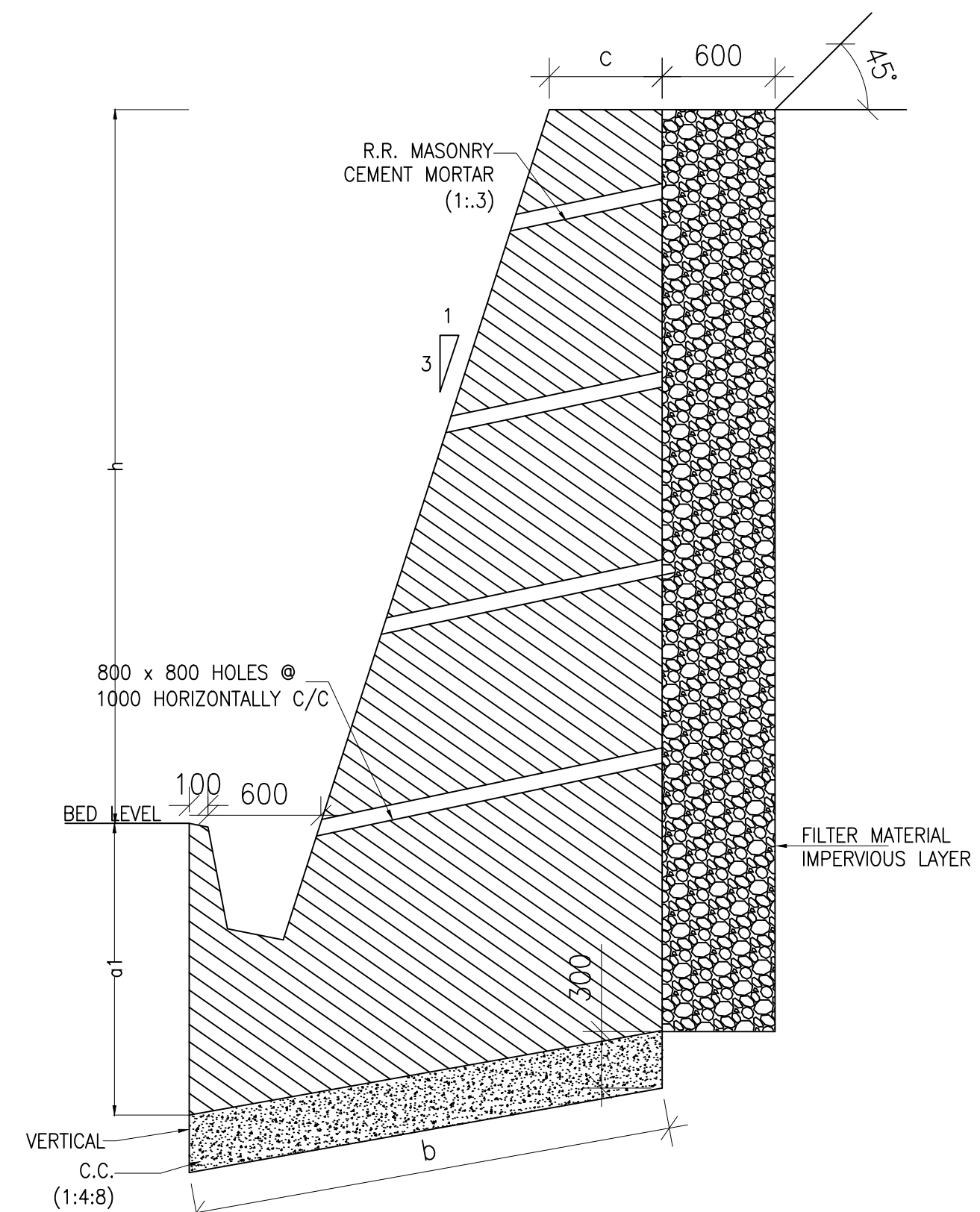
TOTAL HEIGHT 'H'	BASE WIDTH 'b'	AT TOP 'c'	HEIGHT OF PARAPET 'd'	HEIGHT FROM TOP TO GROUND LEVEL 'a'	DEPTH BELOW EGL 'a1'
4000	2250	600	1000	2000	2000
5000	2750	600	1000	3000	2000
6000	3250	600	1000	4000	2000

SCHEDULE OF DIMENSIONS (mm)

TOTAL HEIGHT 'H'	BASE WIDTH 'b'	AT TOP 'c'	DEPTH BELOW EGL 'a1'
3000	1750	600	1500
4000	2250	600	1500

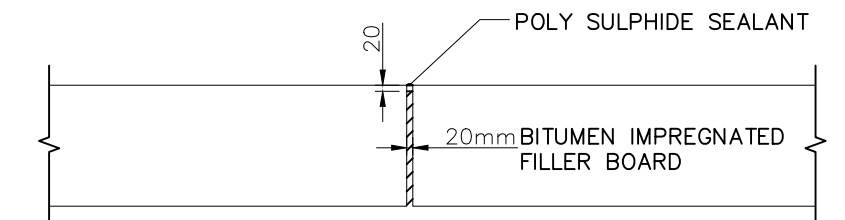
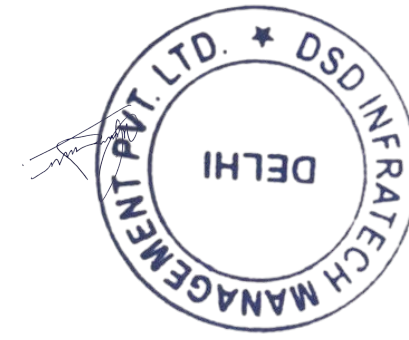
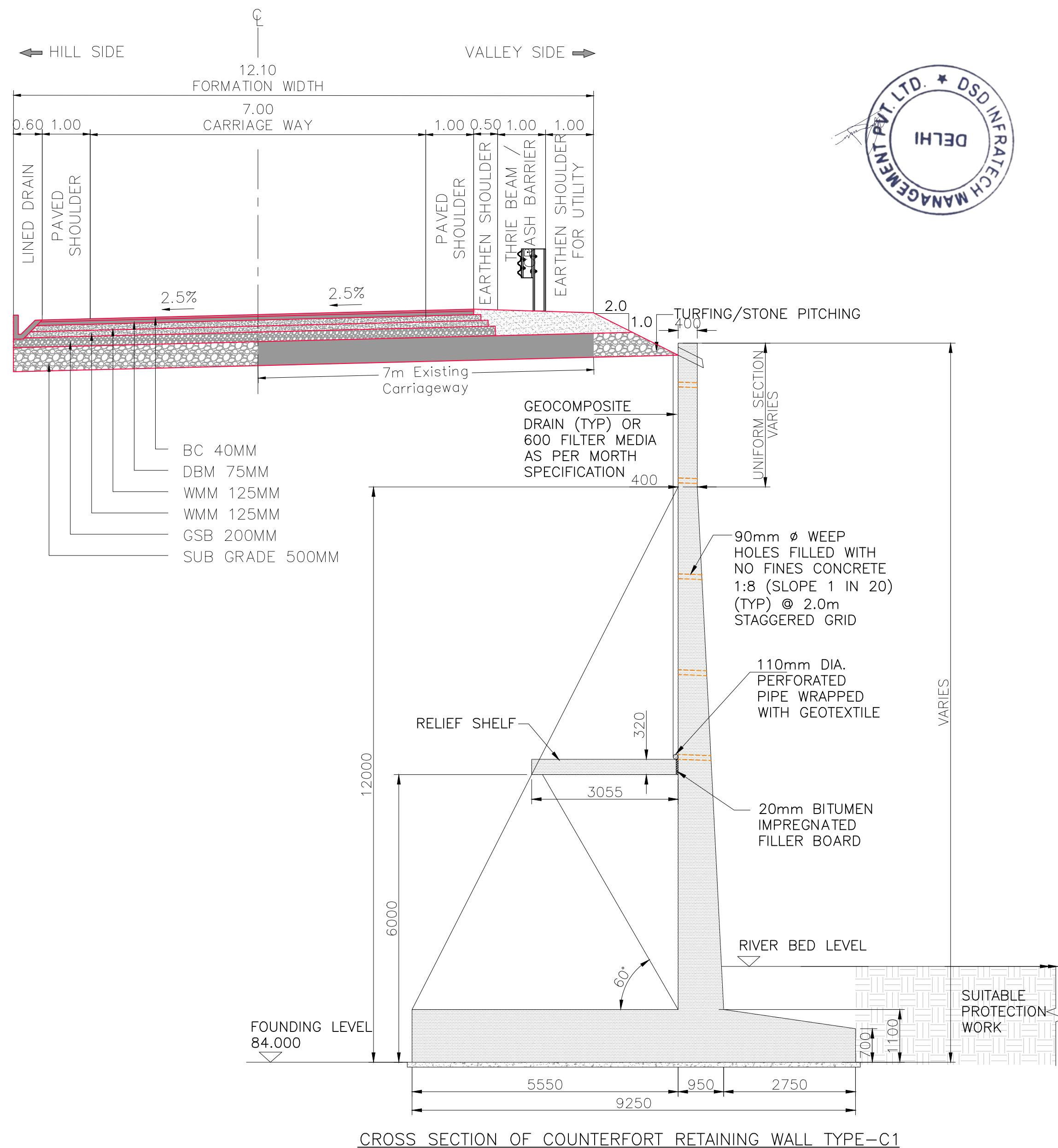


TYPICAL CROSS SECTION RETAINING WALL



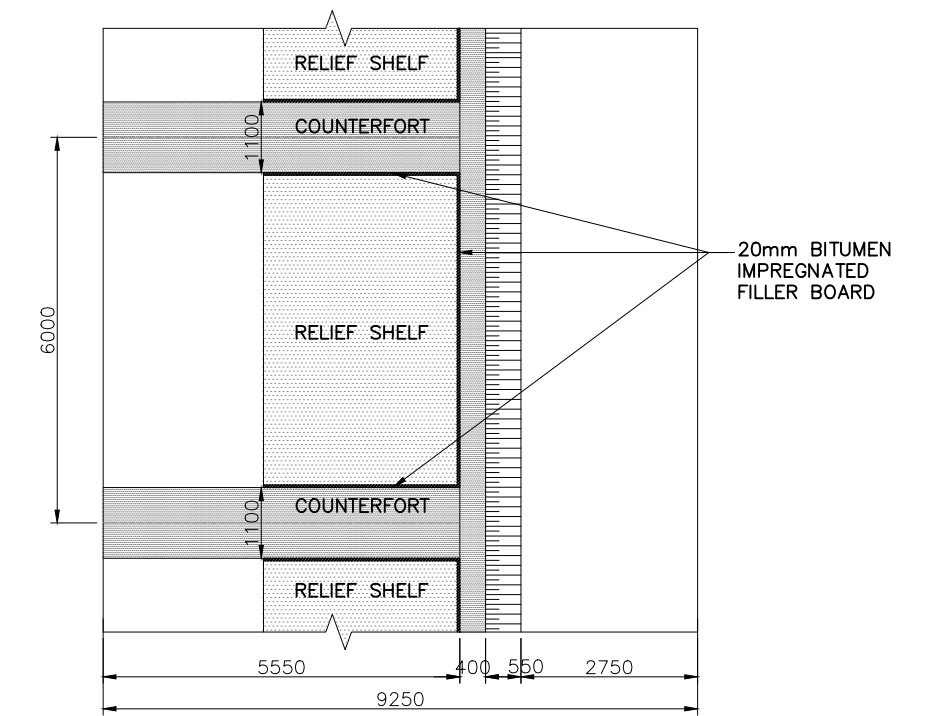
TYPICAL CROSS SECTION BREAST WALL

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:			
		 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK	TYPICAL CROSS SECTION OF PLUM CONCRETE RETAINING WALL & BREAST WALL			
					Checked By : JS				
					Approved By : VY				
						Dwg No: XPL/DSD/SK/KM15.3/RW&BW			
								Scale : - NTS	Sheet: - 1 of 1



BACK FILL

DETAILS OF EXPANSION JOINT

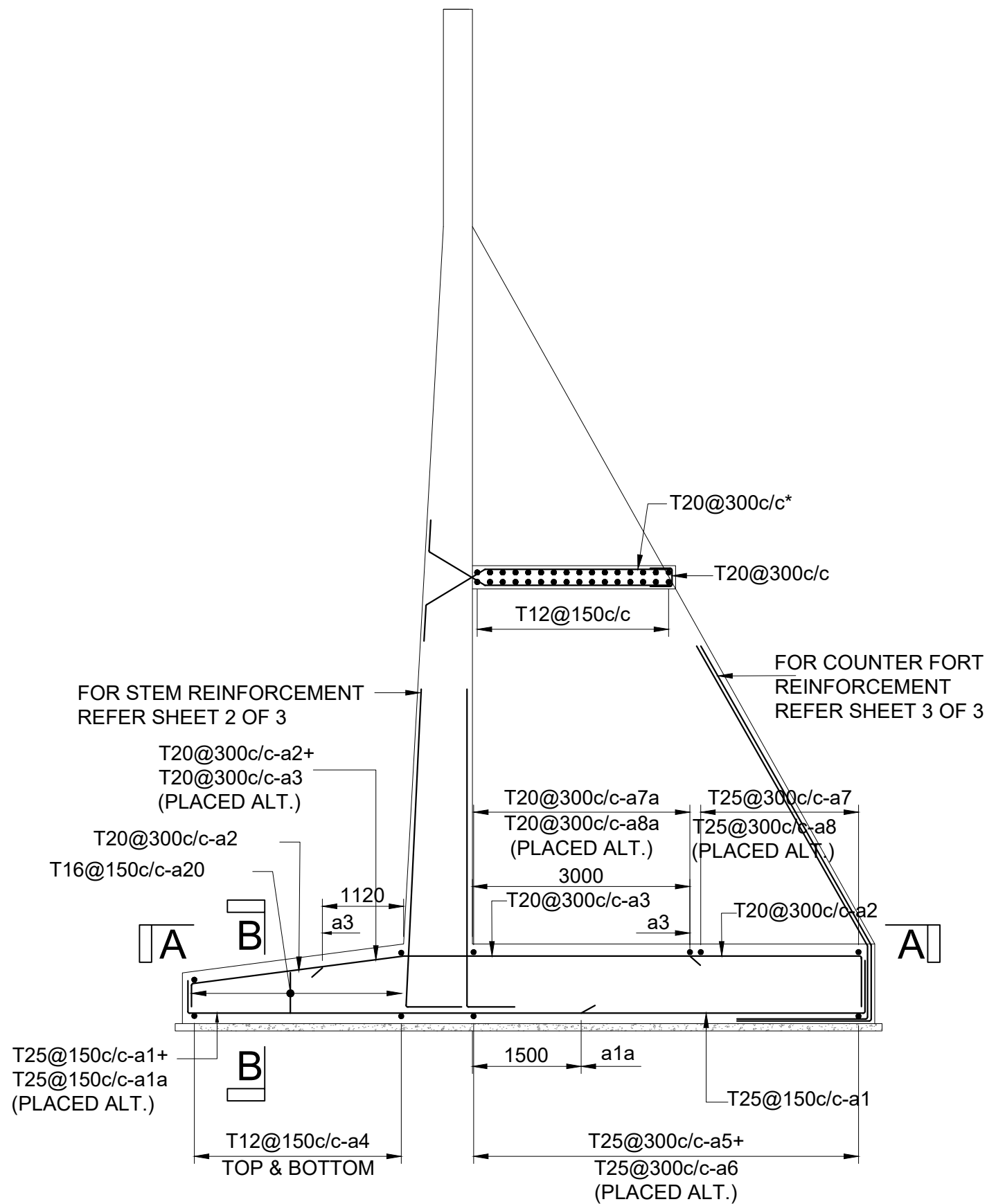


PLAN OF COUNTERFORT RETAINING WALL

NOTES:

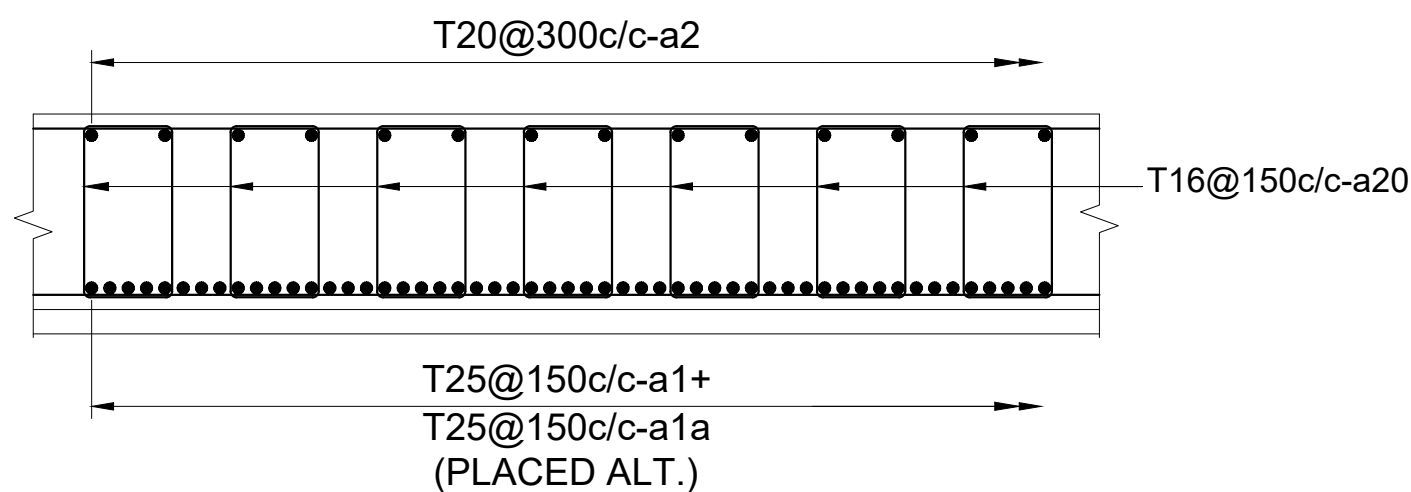
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- GRADE OF CONCRETE SHALL BE:
 - M35 IN RETAINING WALL
- PROPERTIES OF BACK FILL ASSUMED IN THE DESIGN OF ABUTMENTS ARE:
 - ANGLE OF INTERNAL FRICTION (ϕ) --- 30°
 - ANGLE OF WALL FRICTION (δ) --- 20°
- 90mm DIA. PVC PIPES (HEAVY DUTY) FILLED WITH NO-FINE CONCRETE (1:8) SHALL BE PROVIDED (SLOPE 1 IN 20) 2.0m STAGGERED GRID HORIZONTALLY AS WELL AS VERTICALLY AS WEEP HOLES IN RETAINING WALLS ABOVE G.L. AND 110mm DIA. PERFORATED PIPE WRAPPED WITH GEOTEXTILE SHALL BE PROVIDED.
- GEOCOMPOSITE DRAIN (TYP) OR 600 FILTER MEDIA AS PER MORTH SPECIFICATION.
- NET SAFE BEARING CAPACITY OF 42.5t/m² IS TAKEN IN DESIGN AT FOUNDING LEVEL AND THE SAME SHOULD BE CONFIRMED ON THE SITE.

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Grada-tion Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK	Typical Cross Section of Counterfort Retaining Wall
					Checked By : JS	
					Approved By : VY	Dwg No: XPL-DSD/SK/KM15.3/CFRW/01
					Scale : NTS	Sheet:01 OF 01 Date : Nov-2024 A2

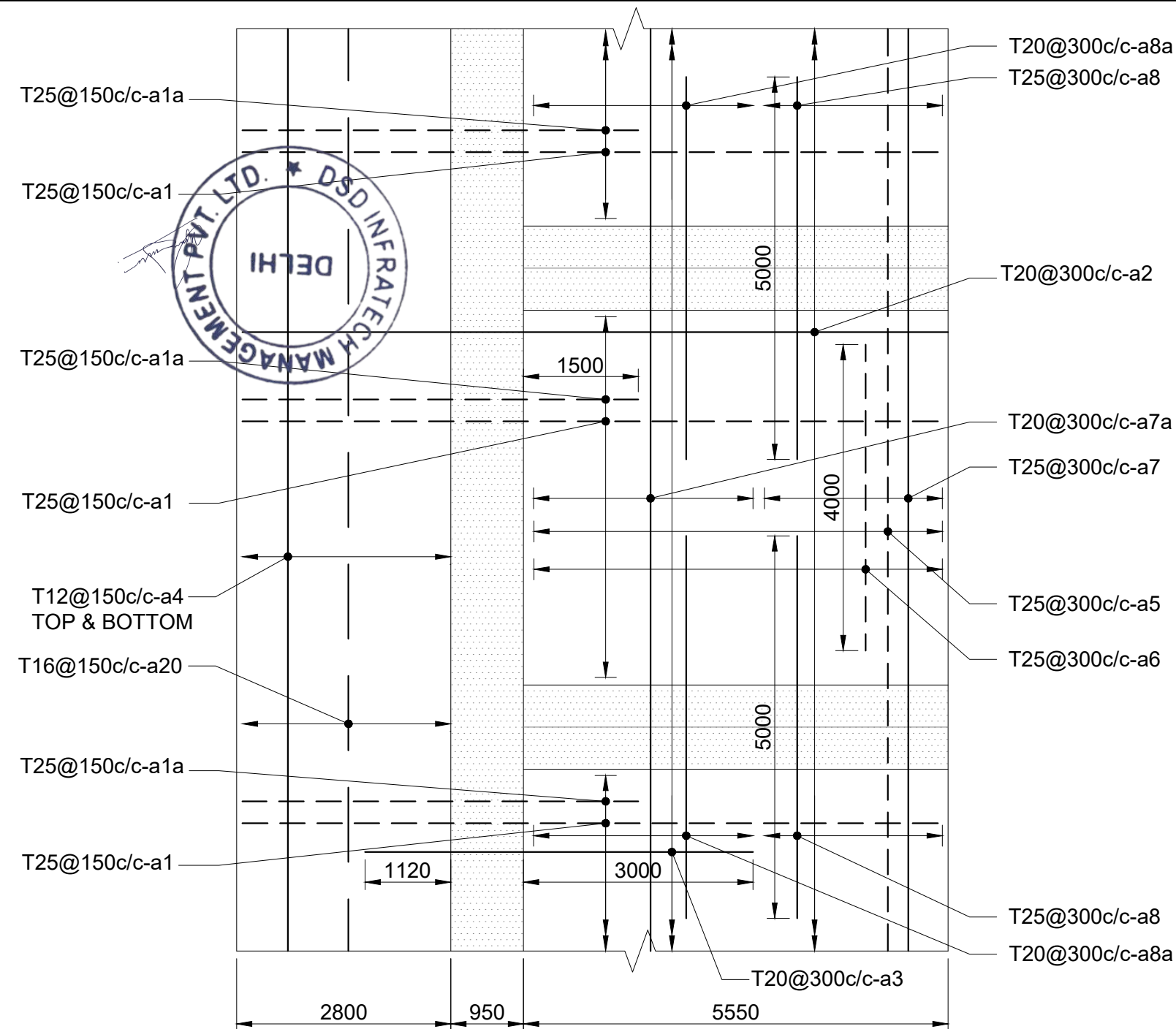


CROSS SECTION OF COUNTERFORT RETAINING WALL

(SHOWING REINFORCEMENT OF HEEL & TOE)
(*REINFORCEMENT TO BE GALVANIZED)



SECTION B-B



SECTION A-A

(SHOWING REINFORCEMENT OF HEEL & TOE)

FOR CLARITY COUNTERFORT & STEM REINFORCEMENT NOT SHOWN

NOTES:

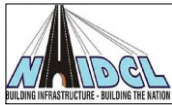
1. ALL DIMENSIONS AND R.LS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
3. 75mm CLEAR COVER TO OUTER MOST REINFORCEMENT SHALL BE PROVIDED.
4. ALL REINFORCING BARS SHALL BE THERMO MECHANICALLY TREATED (TMT) BARS (GRADE DESIGNATION Fe-500D) CONFIRMING TO IS:1786.
5. BARS SHALL BE LAPPED IN SUCH A WAY THAT NOT MORE THAN 50% OF THE BARS ARE LAPPED AT ANY SECTION. LAP LENGTH SHALL BE KEPT AS $56 \times d$, FOR ALL BARS EXCEPT BAR MARKED a3, a4, a7 & a8. FOR THESE BARS LAP LENGTH SHALL BE $81d$, WHERE d IS THE DIA OF BARS. SPACING OF THE TRANSVERSE REINFORCEMENT SHALL NOT BE MORE THAN 150MM AT THE LOCATIONS WHERE BARS ARE LAPPED.

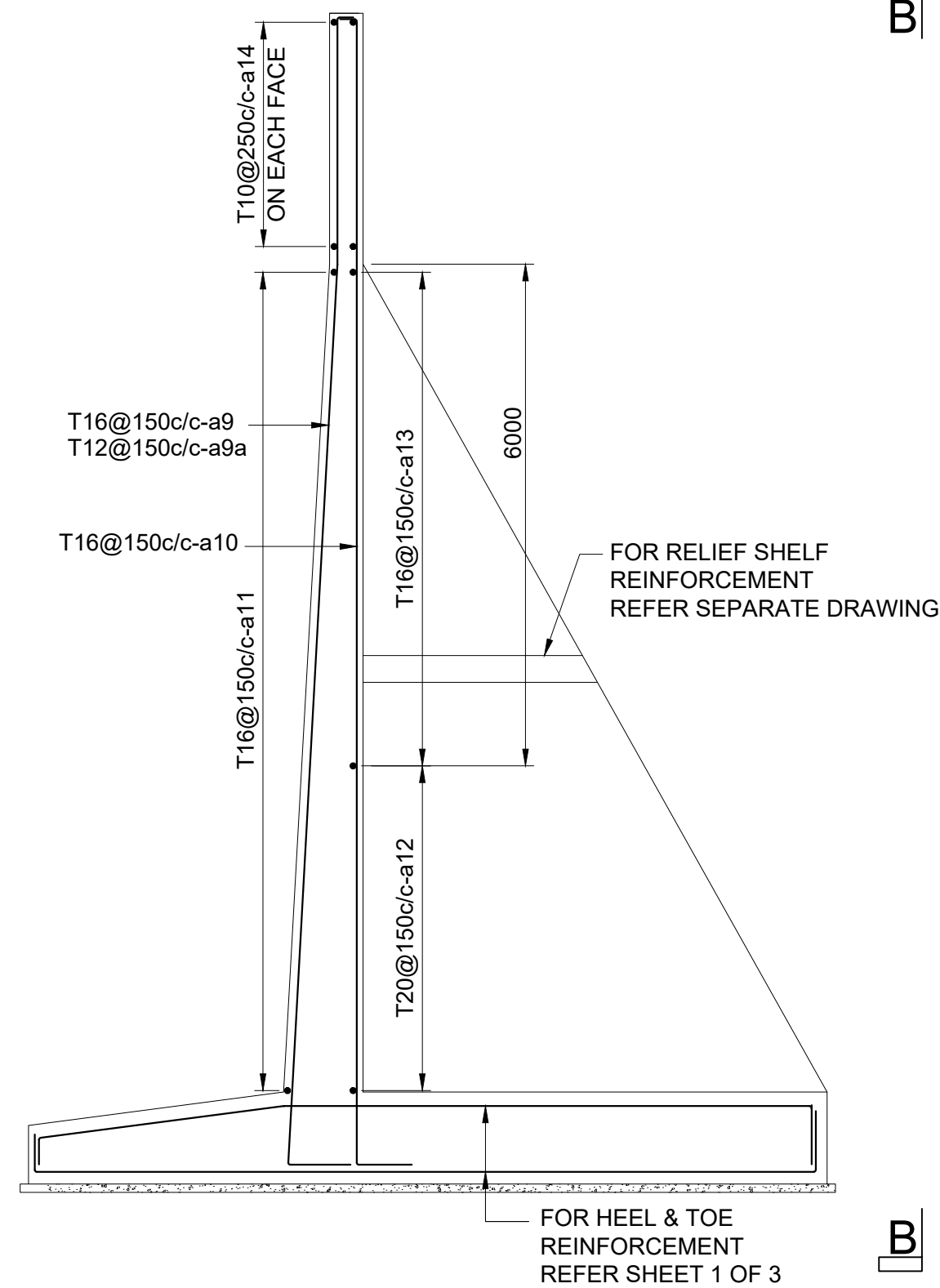
SEQUENCE OF CONSTRUCTION

1. PREFERABLY CAST FOOTING SLAB CONTINUOUSLY IN ONE SEGMENT LEAVING DOWELS FOR STEM AND COUNTERFORT.
2. CAST TOGETHER STEM AND COUNTERFORT IN DIFFERENT LIFTS LEAVING DOWEL FOR RELIEF SLAB. THE CONSTRUCTION JOINT SHOULD BE TREATED AS PER CLAUSE 1709 OF MORTHS STANDARDS SPECIFICATIONS OF ROAD AND BRIDGE WORKS FIFTH REVISION-V.
3. BACK FILL UP TO THE RELIEF SLAB BEFORE IT'S CASTING AND BACK FILL REST UP TO THE TOP AFTER 28 DAYS FROM CASTING RELIEF SLAB.

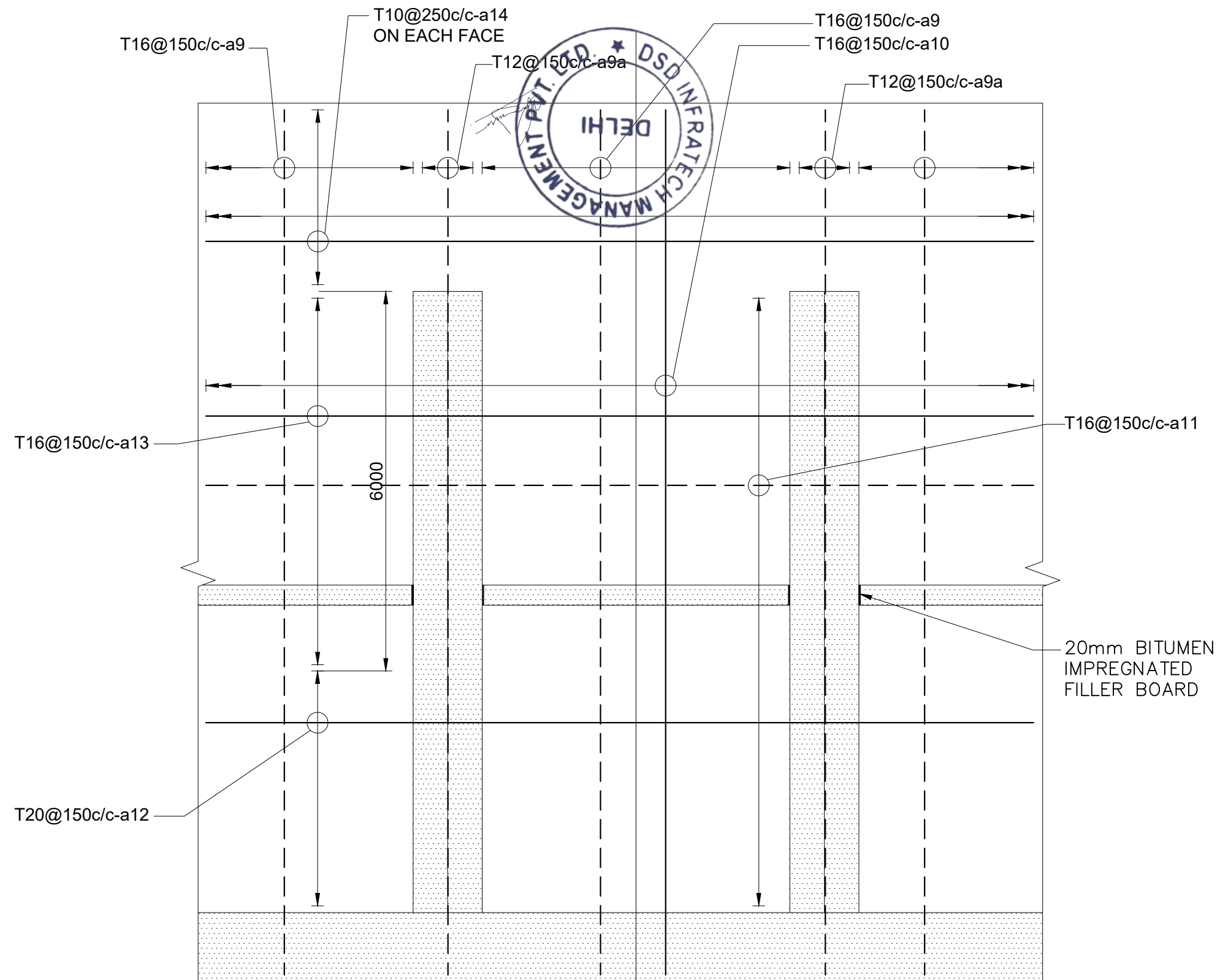
LEGEND :

- T25 @ 150c/c-a1
- BAR MARK
SPACING OF BARS IN MM.
DIA. OF BAR
H.Y.S.D. BARS
INDICATES TOP BAR
INDICATES BOTTOM BAR

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:		
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infotech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301 	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029 	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradaation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK	Reinforcement Detail of Counterfort Retaining Wall		
					Checked By : JS			
					Approved By : VY	Dwg No: XPL-DSD/SK/CFRW/RE-01		
					Scale : NTS	Sheet:01 OF 03	Date : Nov-2024	A2



**CROSS SECTION OF COUNTERFORT
RETAINING WALL**
(SHOWING REINFORCEMENT OF STEM)



SECTION B-B
(SHOWING REINFORCEMENT OF STEM)

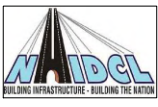
FOR CLARITY COUNTERFORT REINFORCEMENT NOT SHOWN

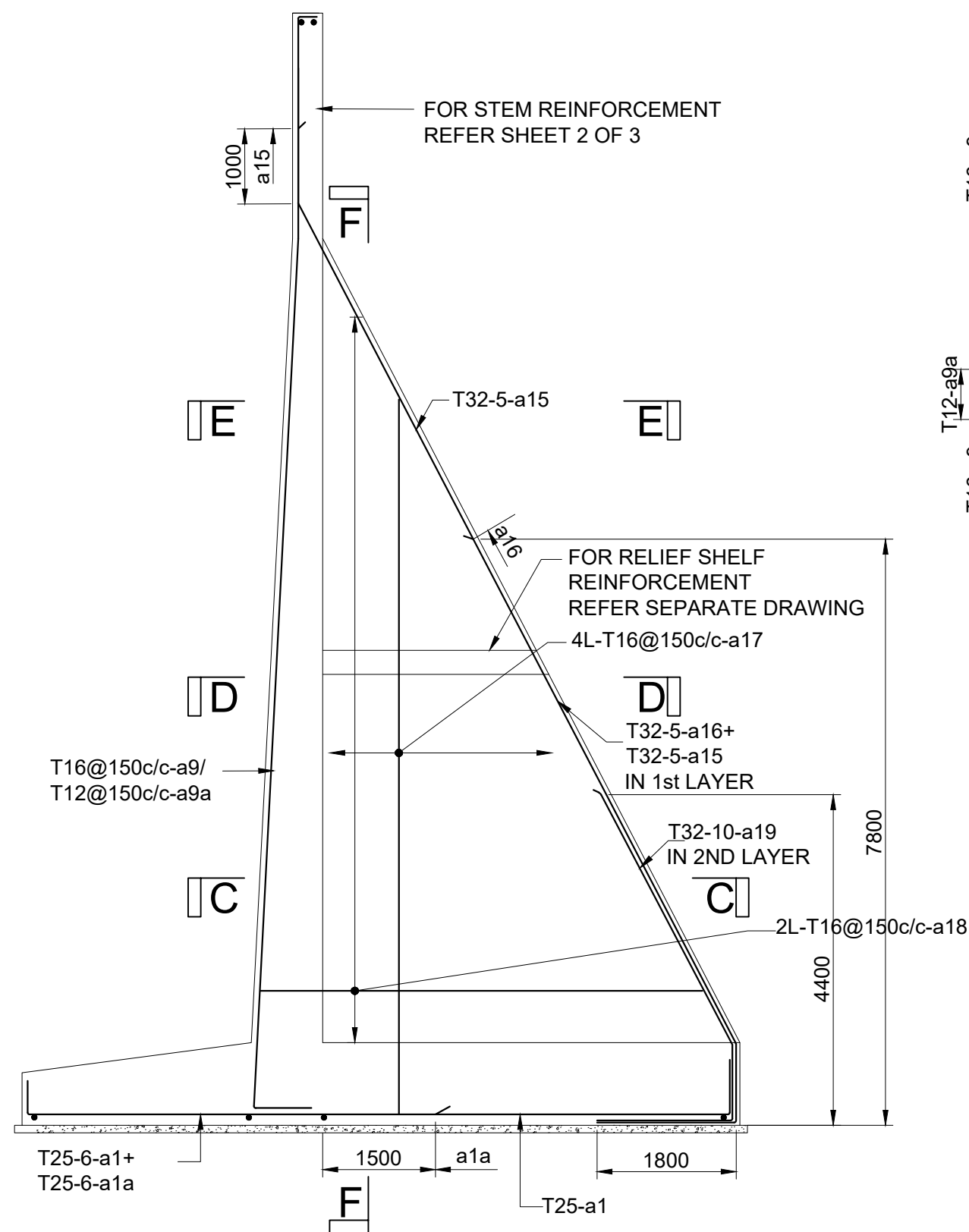
LEGEND :

- T16 @ 150c/c-a9
- BAR MARK
- SPACING OF BARS IN MM.
- DIA. OF BAR
- H.Y.S.D. BARS
- INDICATES BAR IN FRONT
- INDICATES BAR IN BEHIND

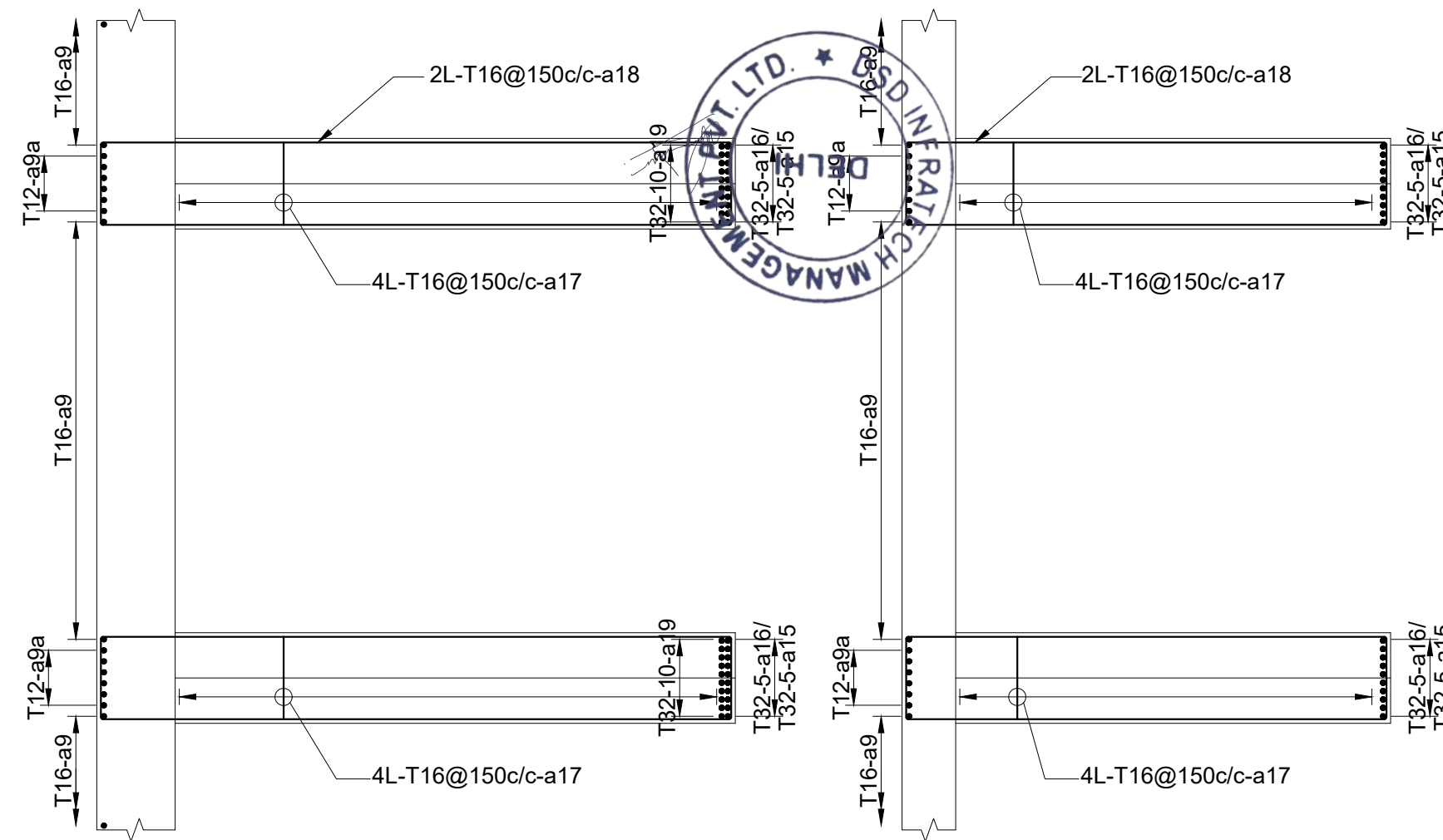
NOTES:

- ALL DIMENSIONS AND R.LS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- 75mm CLEAR COVER TO OUTER MOST REINFORCEMENT SHALL BE PROVIDED.
- ALL REINFORCING BARS SHALL BE THERMO MECHANICALLY TREATED (TMT) BARS (GRADE DESIGNATION Fe-500D) CONFIRMING TO IS:1786.
- BARS SHALL BE LAPPED IN SUCH A WAY THAT NOT MORE THAN 50% OF THE BARS ARE LAPPED AT ANY SECTION. LAP LENGTH SHALL BE KEPT AS $56 \times d$, FOR ALL BARS EXCEPT BAR MARKED a3, a4, a7 & a8. FOR THESE BARS LAP LENGTH SHALL BE $81d$, WHERE d IS THE DIA OF BARS. SPACING OF THE TRANSVERSE REINFORCEMENT SHALL NOT BE MORE THAN 150MM AT THE LOCATIONS WHERE BARS ARE LAPPED.

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:		
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301 	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029 	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK	Reinforcement Detail of Counterfort Retaining Wall		
					Checked By : JS			
					Approved By : VY	Dwg No: XPL-DSD/SK/CFRW/RE-01		
					Scale : NTS	Sheet:02 OF 03	Date : Nov-2024	A2

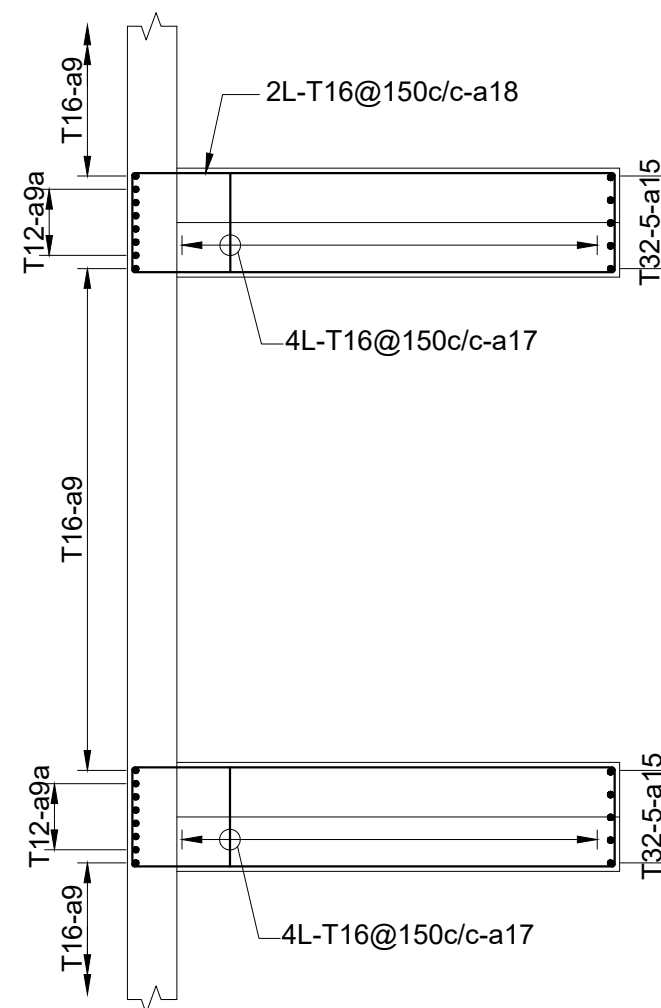


**CROSS SECTION OF COUNTERFORT
RETAINING WALL**
(SHOWING REINFORCEMENT OF COUNTERFORT)

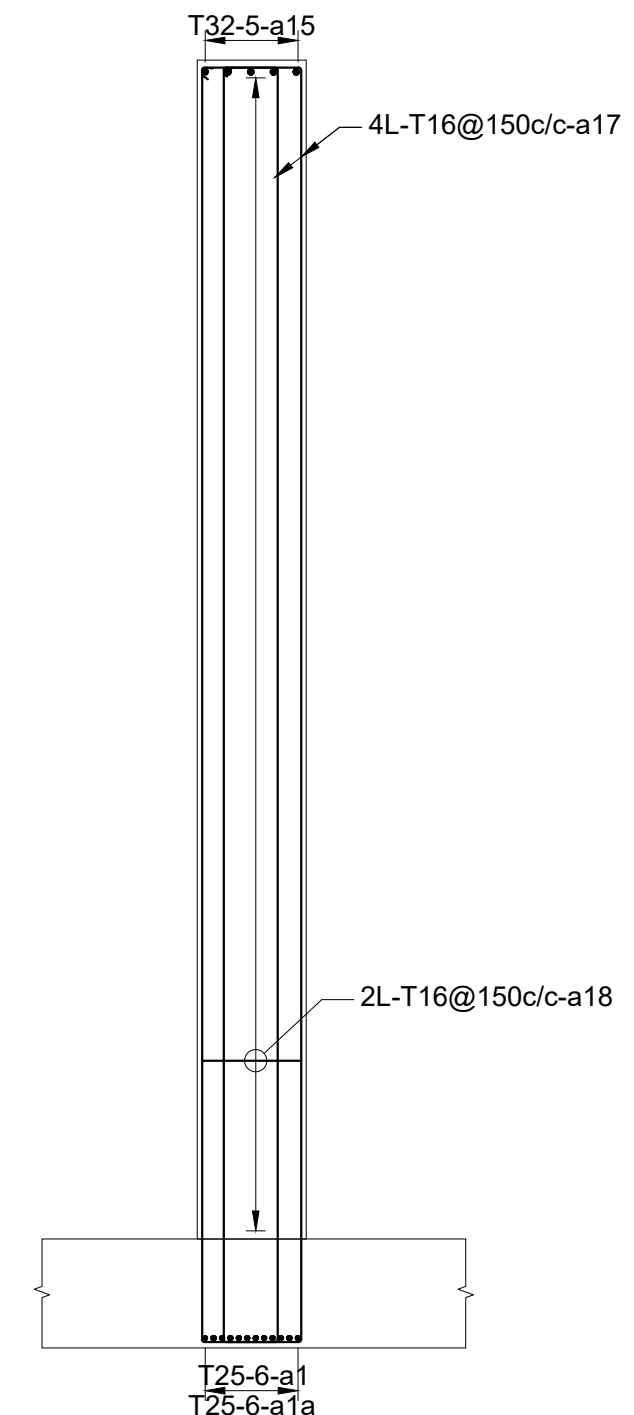


SECTION C-C
(SHOWING REINFORCEMENT OF COUNTERFORT)

SECTION D-D
(SHOWING REINFORCEMENT OF COUNTERFORT)

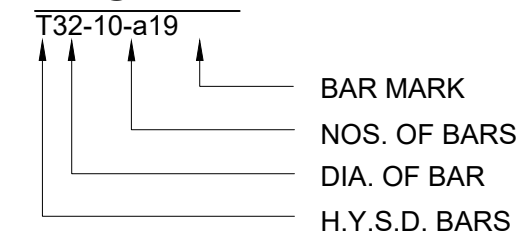


SECTION E-E
(SHOWING REINFORCEMENT OF COUNTERFORT)
(RELIEF SHELF NOT SHOWN FOR CLARITY)



SECTION F-F
(SHOWING REINFORCEMENT OF COUNTERFORT)

LEGEND :



FOR CLARITY STEM & FOOTING REINFORCEMENT NOT SHOWN

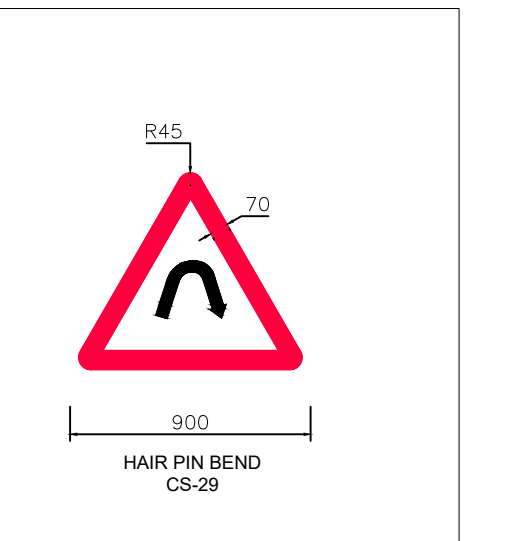
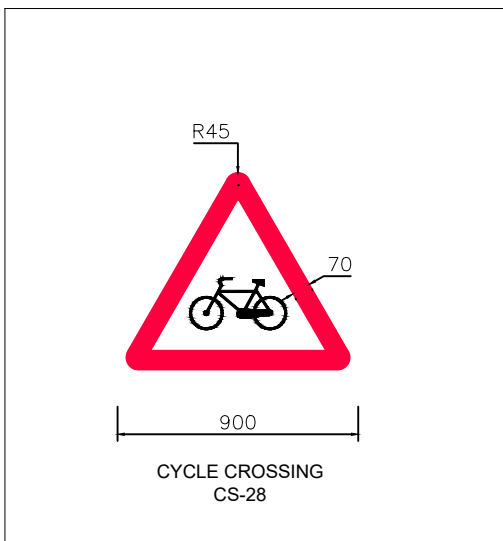
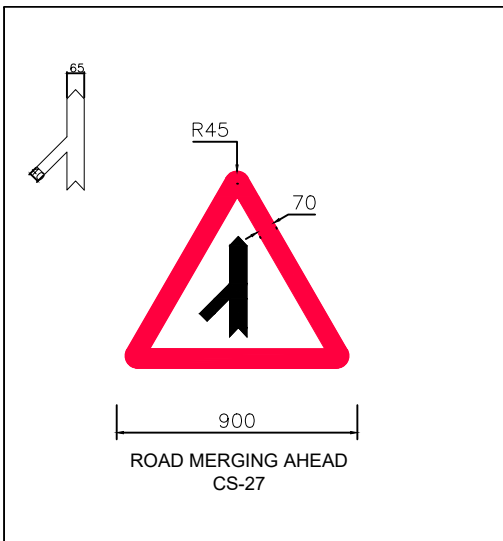
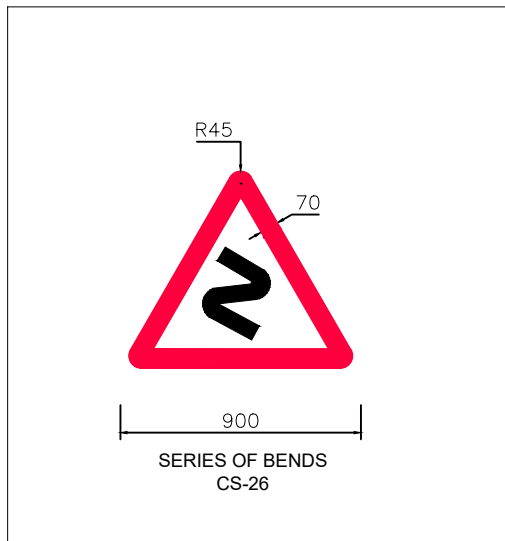
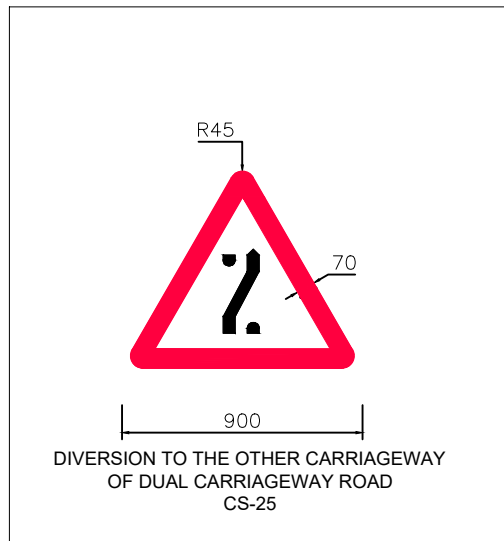
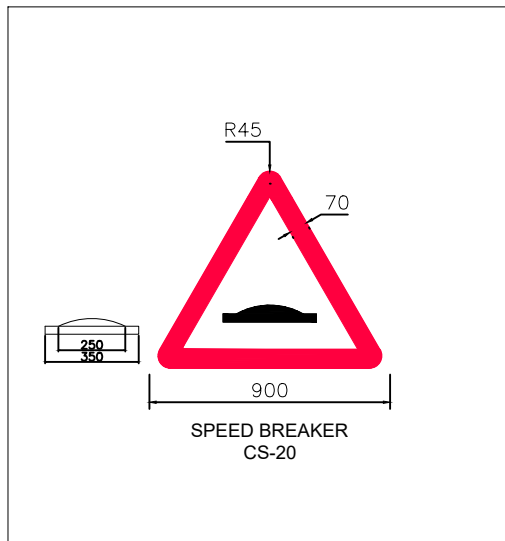
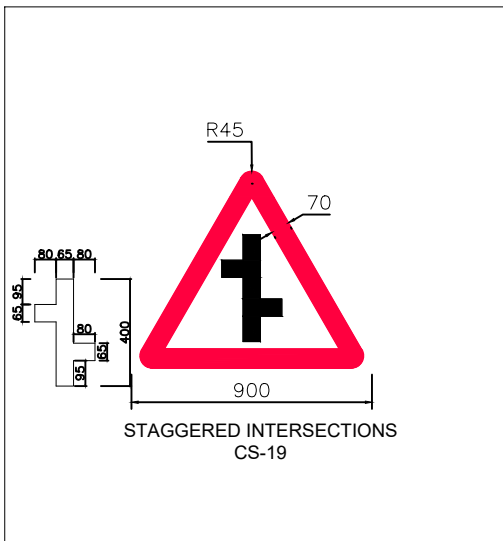
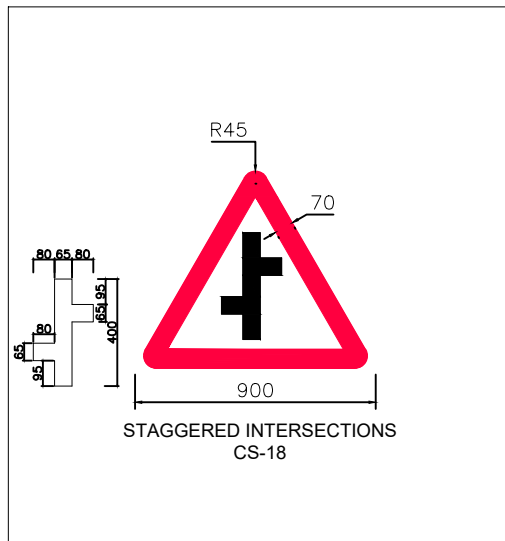
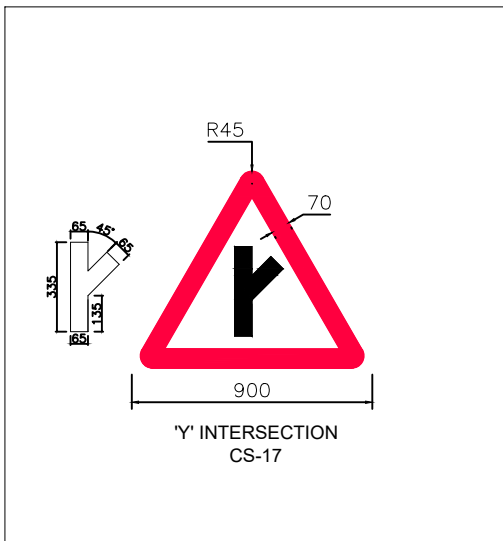
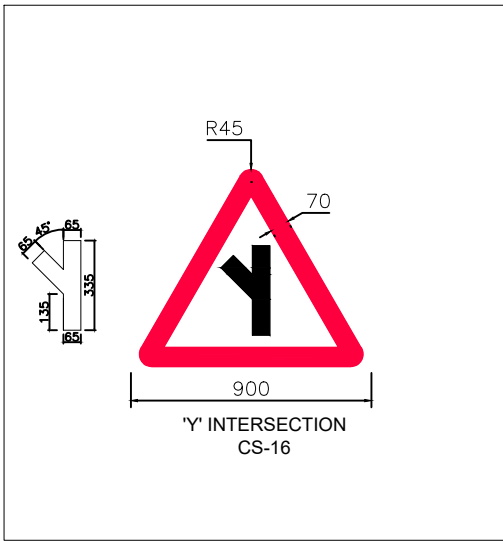
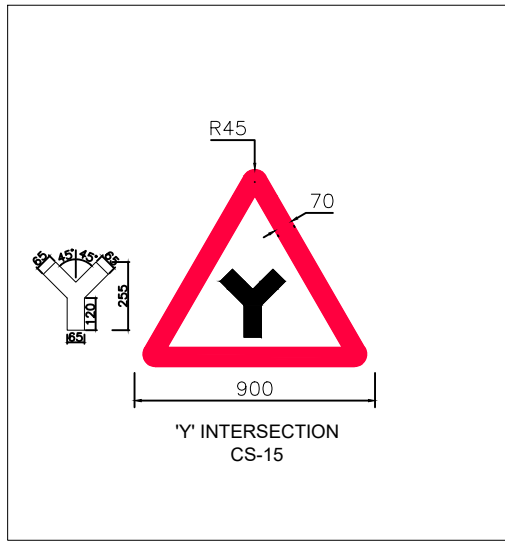
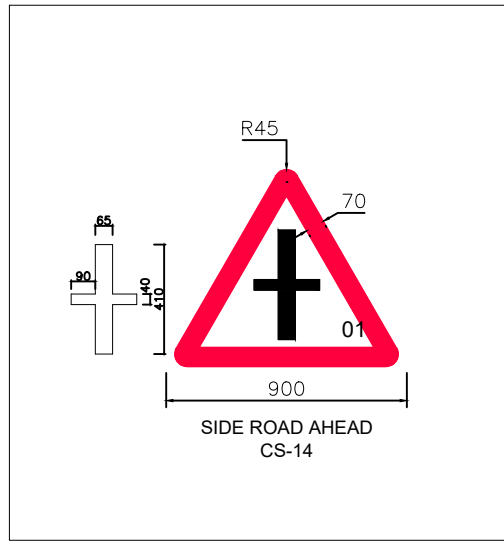
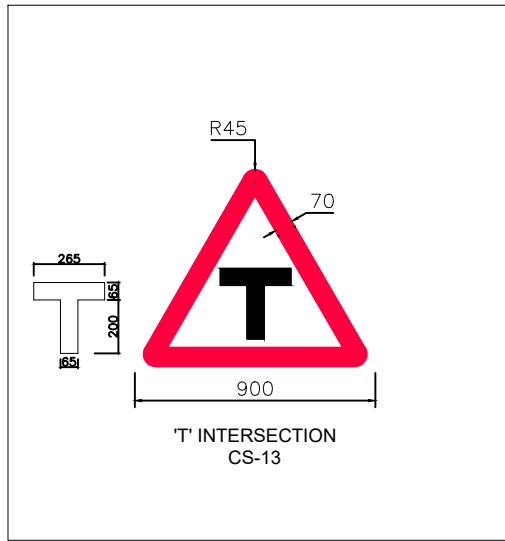
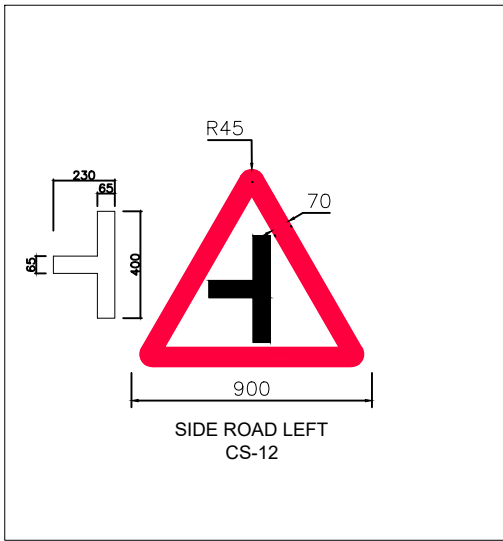
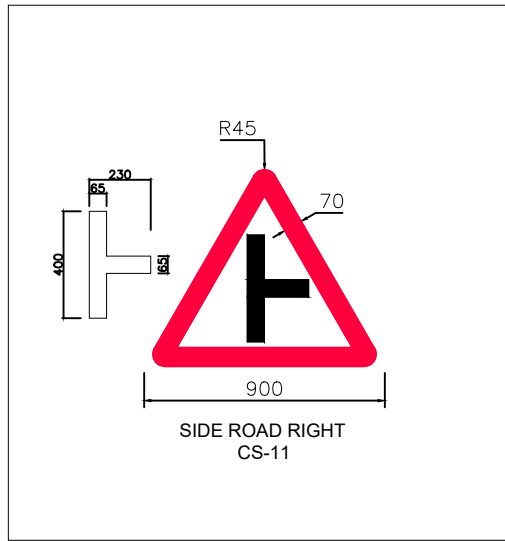
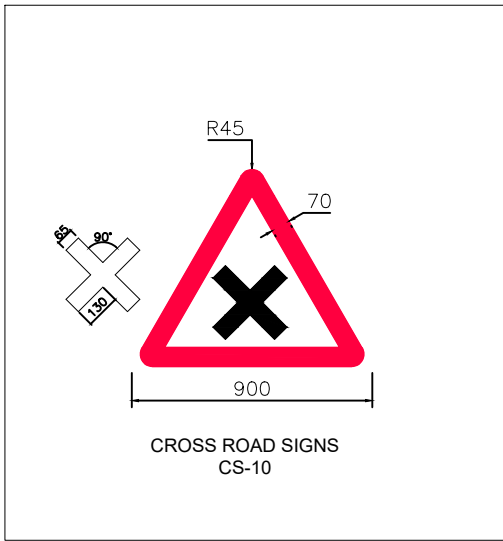
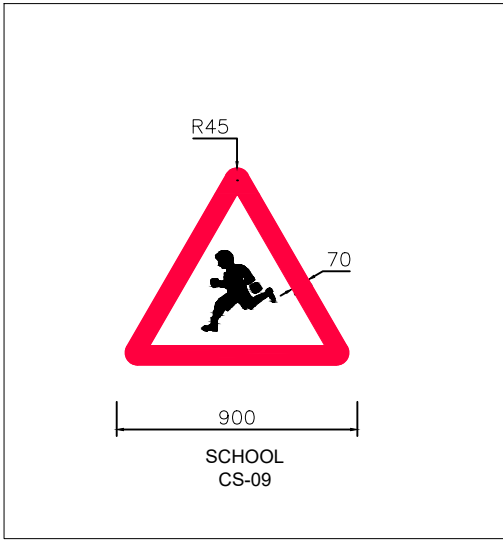
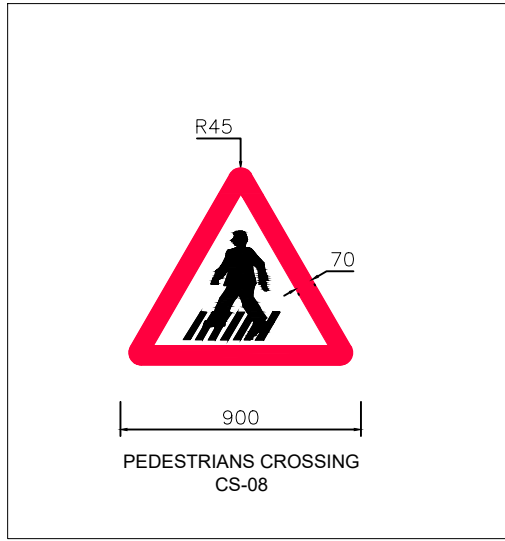
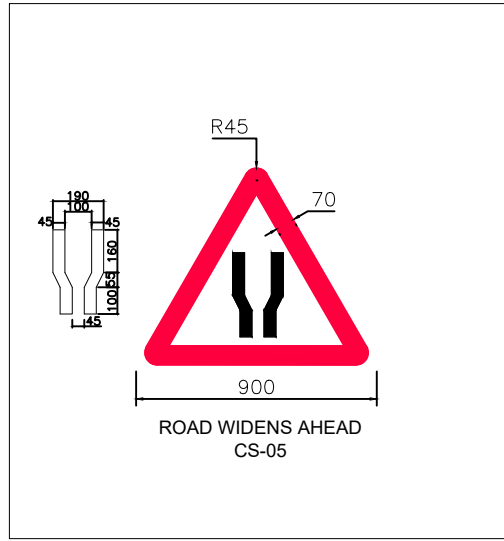
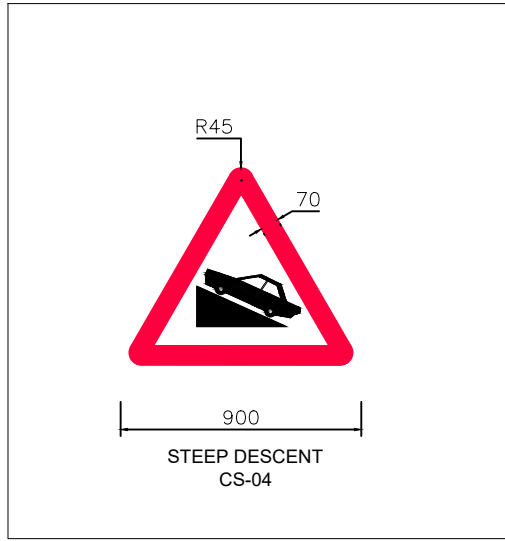
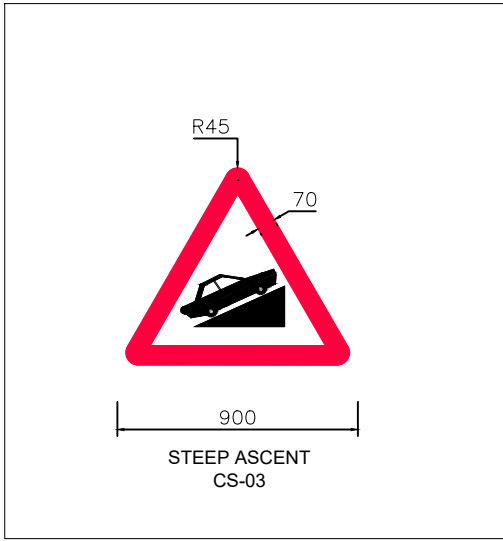
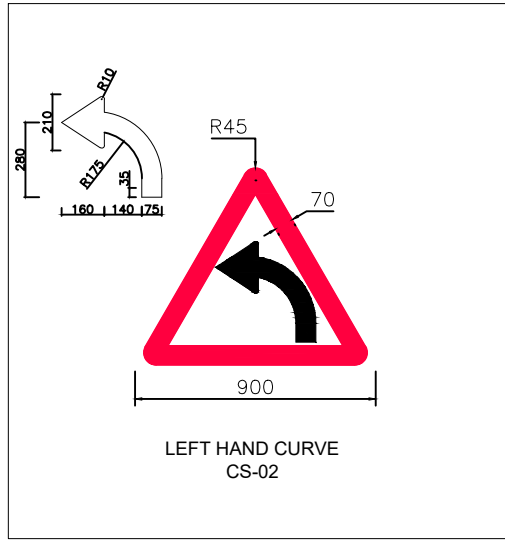
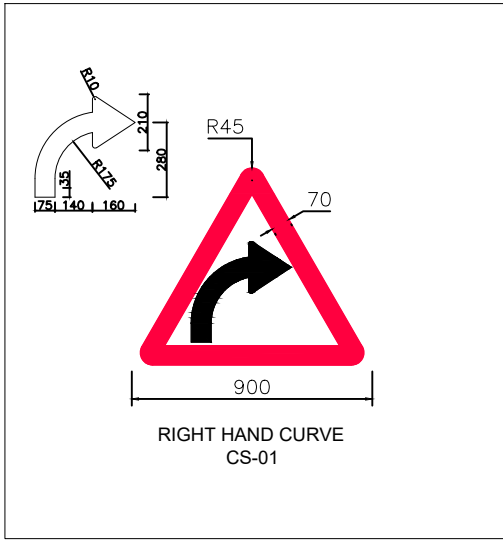
NOTES:

- ALL DIMENSIONS AND R.LS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- DIMENSIONS ARE NOT TO BE SCALED AND ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
- 50mm CLEAR COVER TO OUTER MOST REINFORCEMENT SHALL BE PROVIDED.
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Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : PB	Title:		
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK	Reinforcement Detail of Counterfort Retaining Wall		
					Checked By : JS			
					Approved By : VY	Dwg No: XPL-DSD/SK/CFRW/RE-01		
					Scale : NTS	Sheet:03 OF 03	Date : Nov-2024	A2

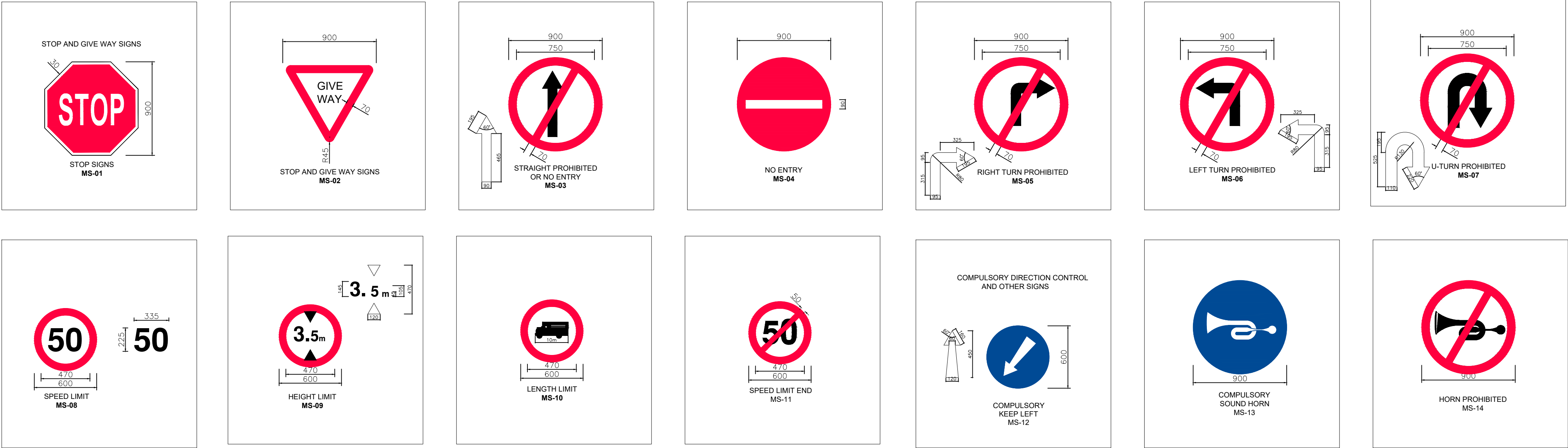
MISCELLANEOUS DRAWING

CAUTIONARY/WARNING SIGNS



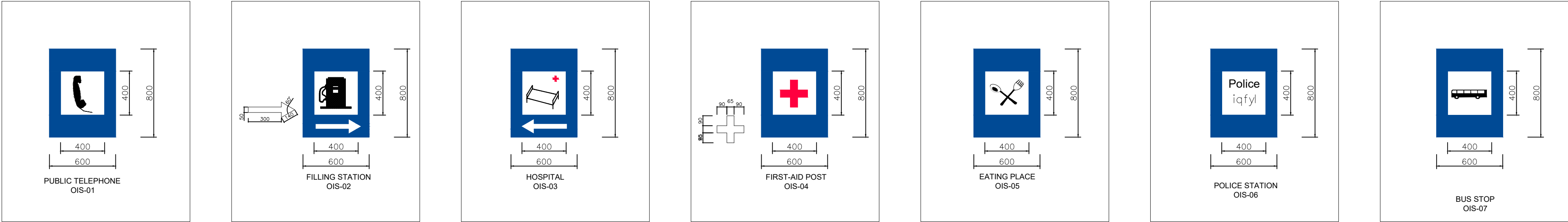
Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : JS	Title:		
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301  In Association with	DELHI  NATIONAL HIGHWAY & INFRASTRUCTURE DEVELOPMENT CORP. LTD. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : MK	CAUTIONARY / WARNING SIGNS		
					Checked By : AH			
					Approved By : VY	Dwg No: XPL/DSD/SK/KM15.3/RS-01		
					Scale : NTS	Sheet: 1 OF 1	Date : Nov-2024	A2

MANDATORY/REGULATORY SIGNS



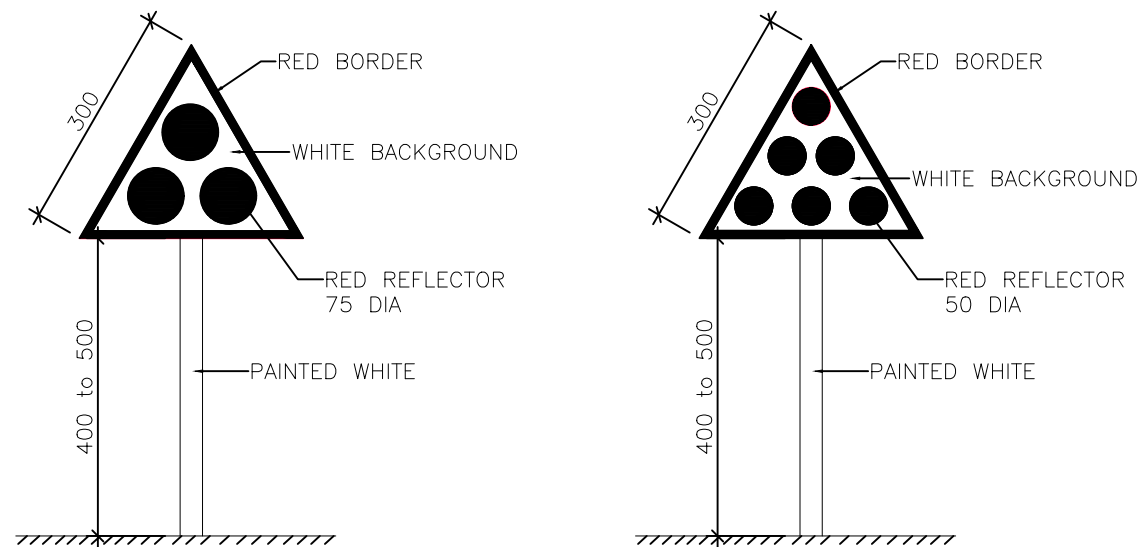
INFORMATORY SIGN BOARD:-

(A) FACILITY INFORMATION SIGNS

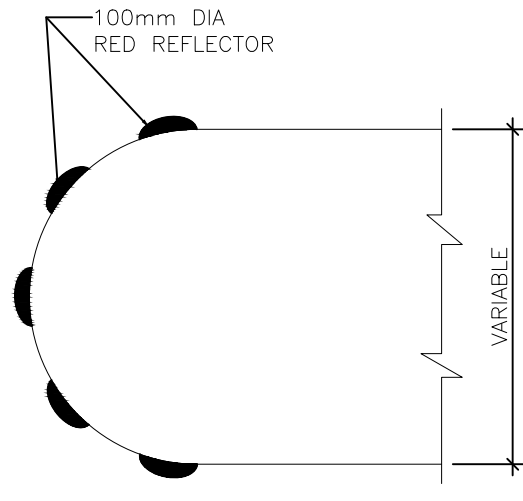


(B) DIRECTION AND PLACE IDENTIFICATION SIGNS

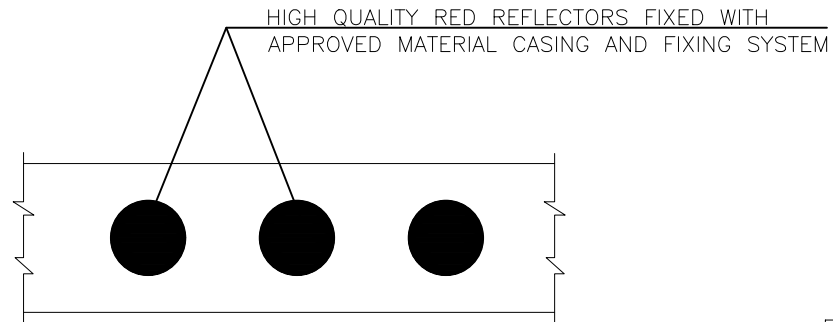
Rev.No.	Description For Revision.	Design Consultant: Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Client: National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Project : Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Design By : JS	Title: CAUTIONARY / WARNING SIGNS		
					Drawn By : MK			
					Checked By : AH			
					Approved By : VY	Dwg No:XPL/DSD/SK/KM15.3/RS-02		
					Scale : NTS	Sheet: 1 OF 1	Date : Nov-2024	A2



CLUSTER OF RED REFLECTORS
TA-1

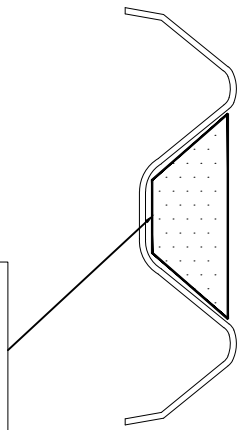


PLAN

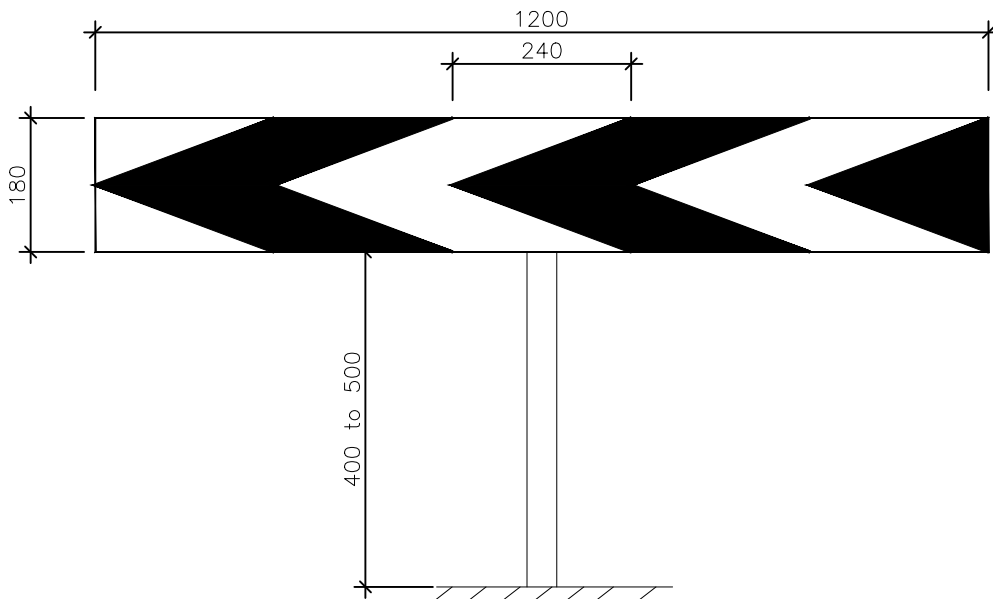


ELEVATION

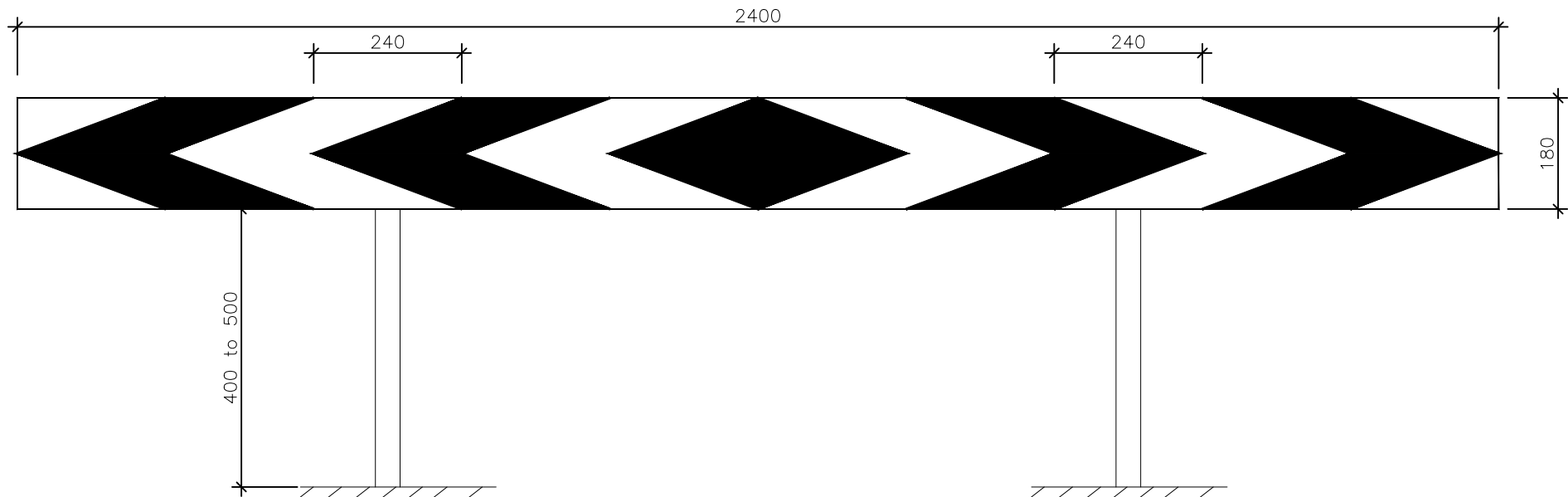
HIGH QUALITY RED REFLECTORS OF APPROVED
SIZE AND SHAPE (TO FIXED IN THE SHAPE OF
W-BEAM), FIXED WITH APPROVED MATERIAL,
CASING ANF FIXUP SYSTEM



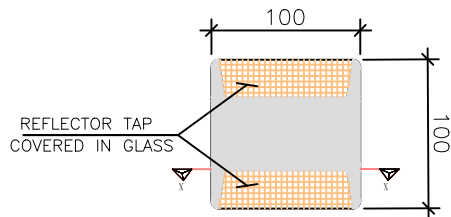
ON W-BEAM OF
METAL BEAM
CRASH BARRIER
TA-5



ONE-WAY HAZARD MARKER
TA-2

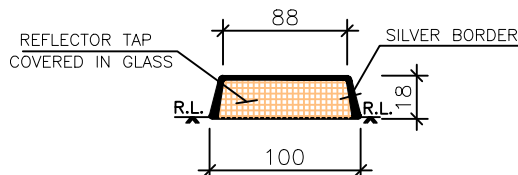


TWO-WAY HAZARD MARKER
TA-3



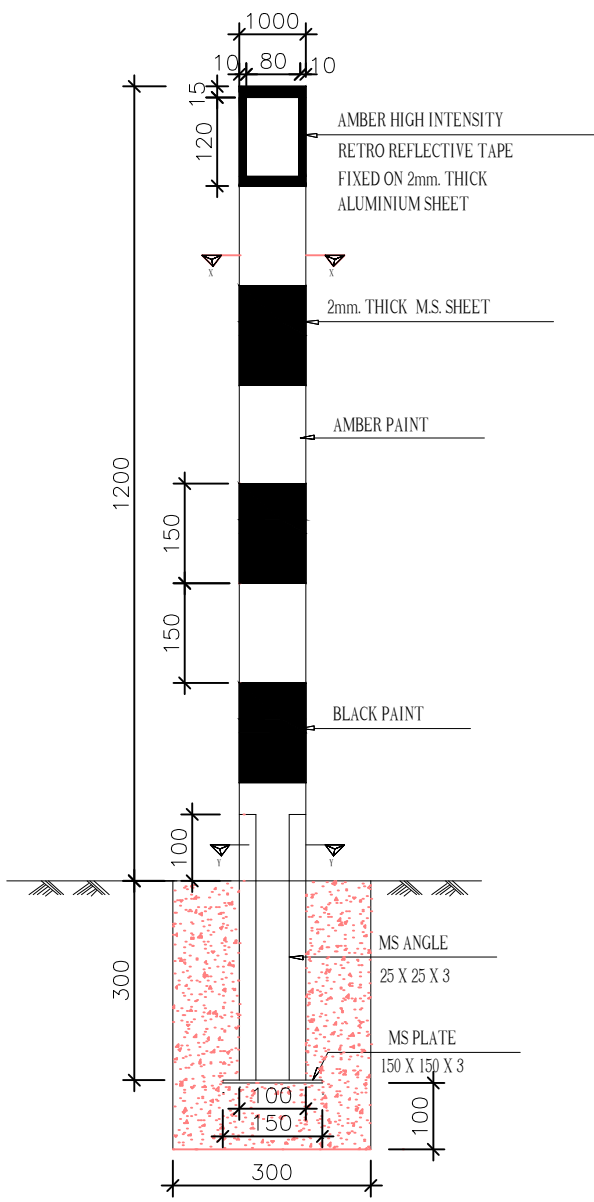
PLAN

Road Studs
(Cateyes)

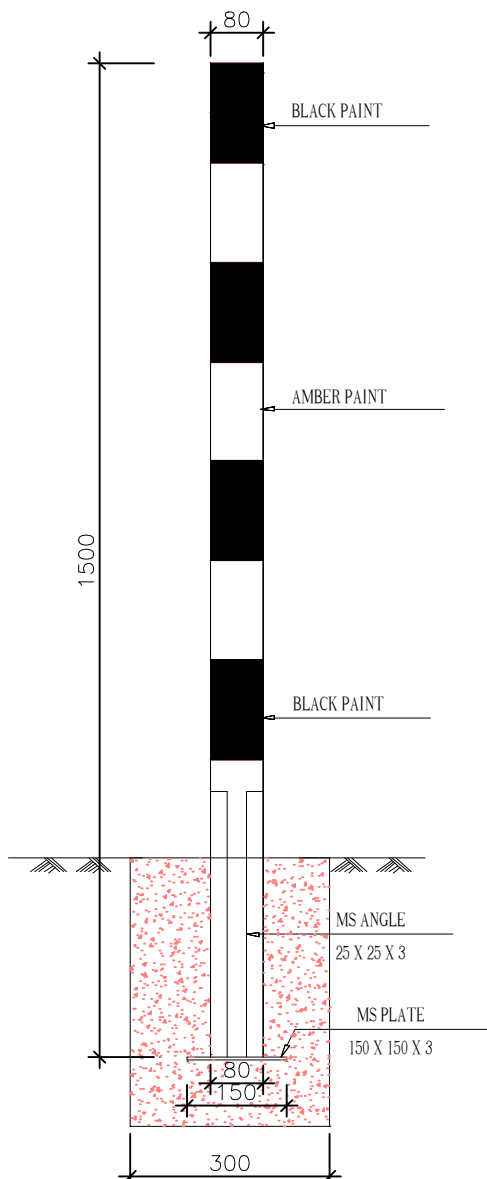


Section X - X

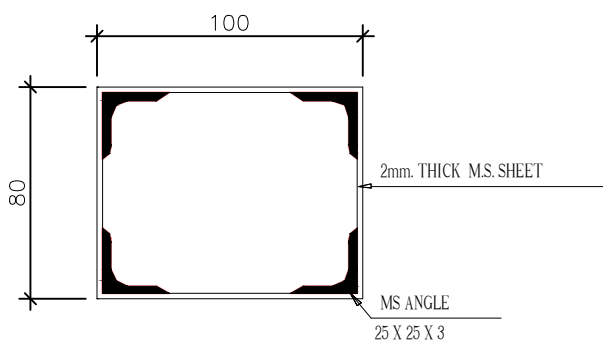
Road Studs
(Cateyes)



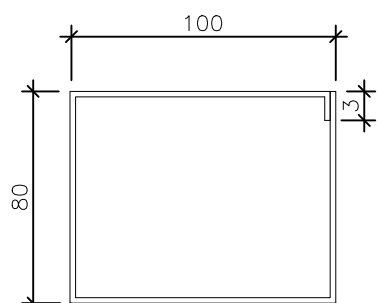
FRONT VIEW



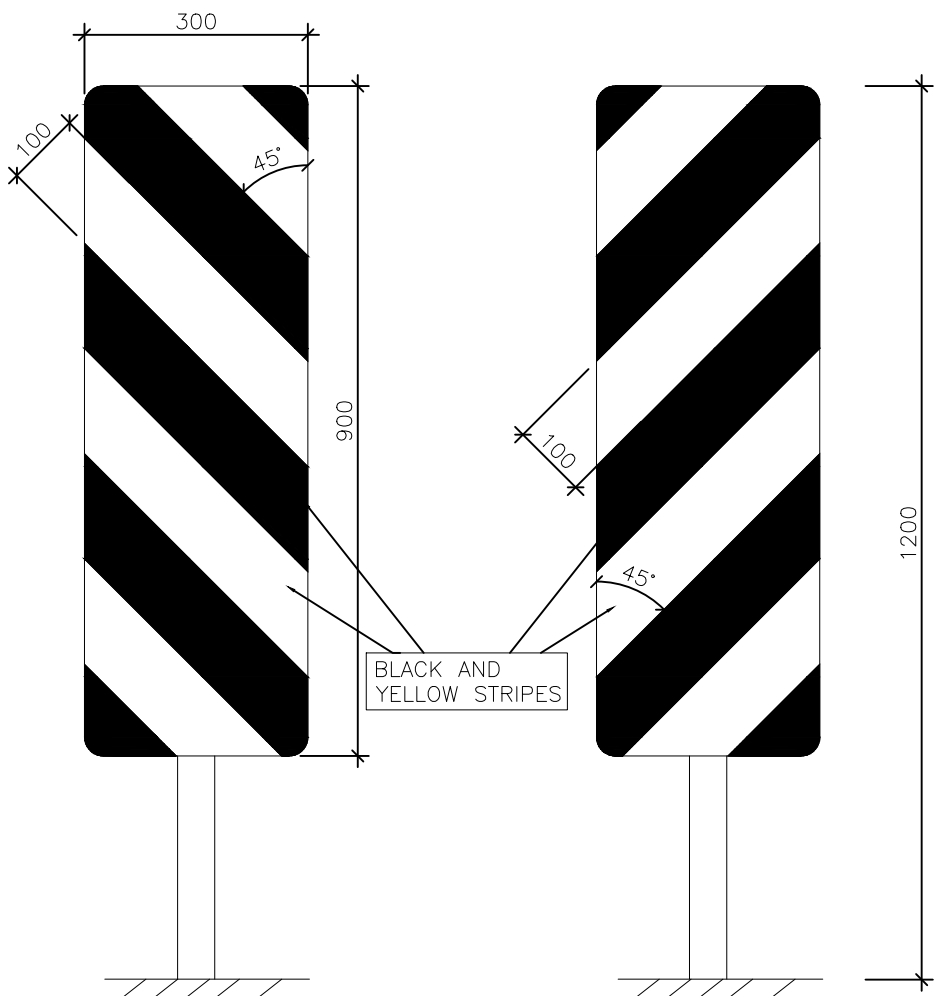
SIDE VIEW



SECTION Y-Y



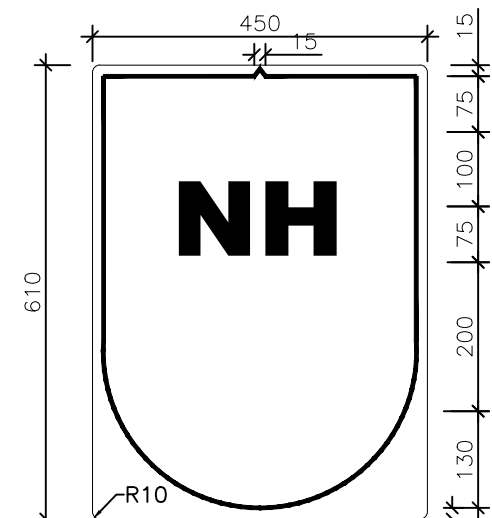
SECTION X-X



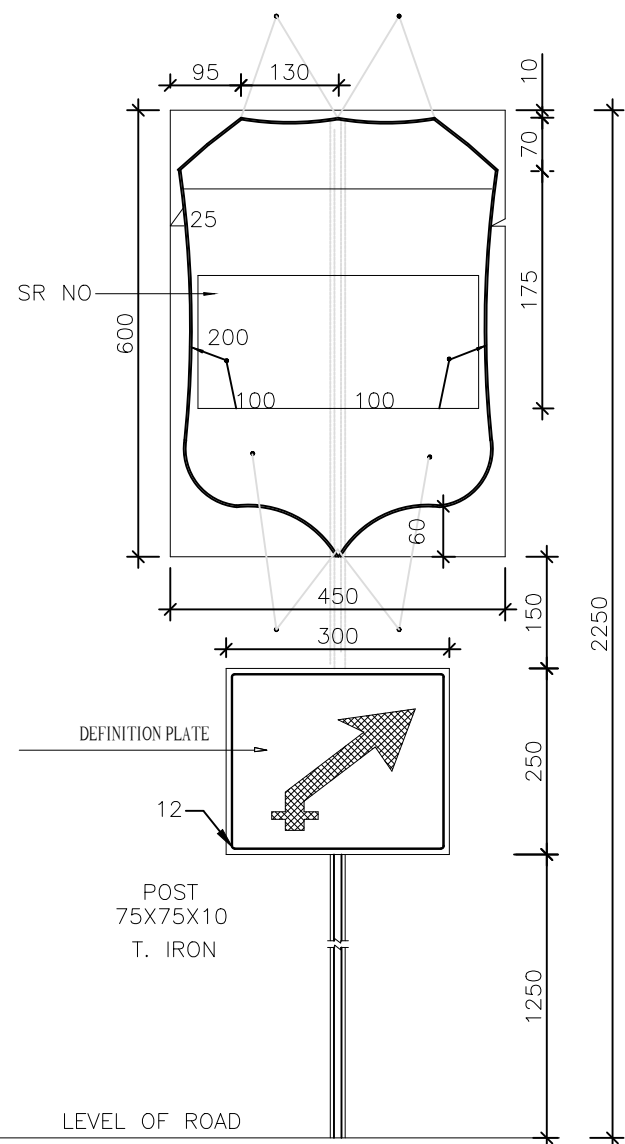
LEFT

RIGHT

OBJECT HAZARD MARKERS

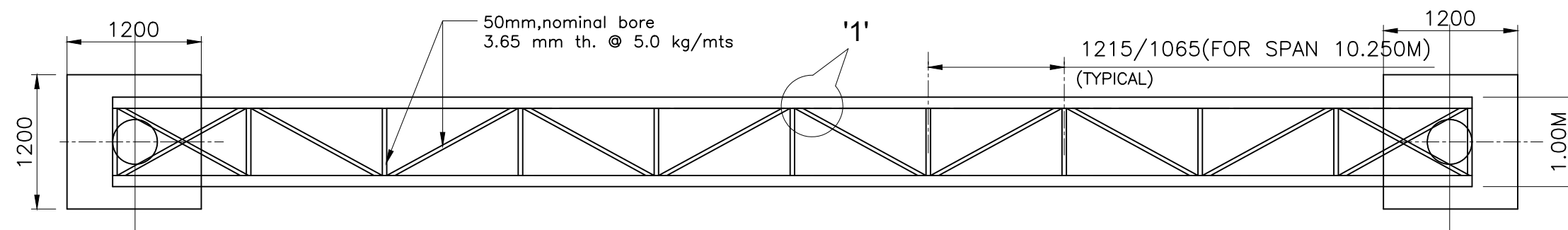


NH ROUTE MARKER SIGN
IS-07

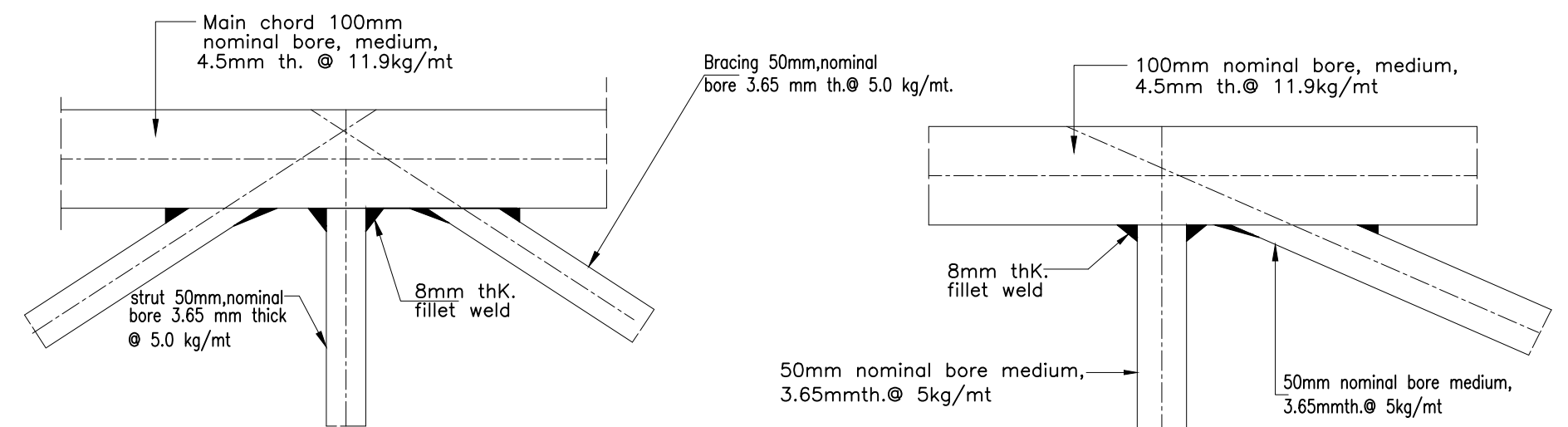


ASSEMBLY OF ROUTE MARK SIGN
ARRANGEMENT FOR ERECTION OF
STATE ROUTE MARKER SIGN

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : JS	Title:
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : MK Checked By : AH Approved By : VY Scale : NTS	CAUTIONARY / WARNING SIGNS Dwg No:XPL/DSD/SK/KM15.3/RS-03 Sheet: 1 OF 1 Date : Nov-2024 A2

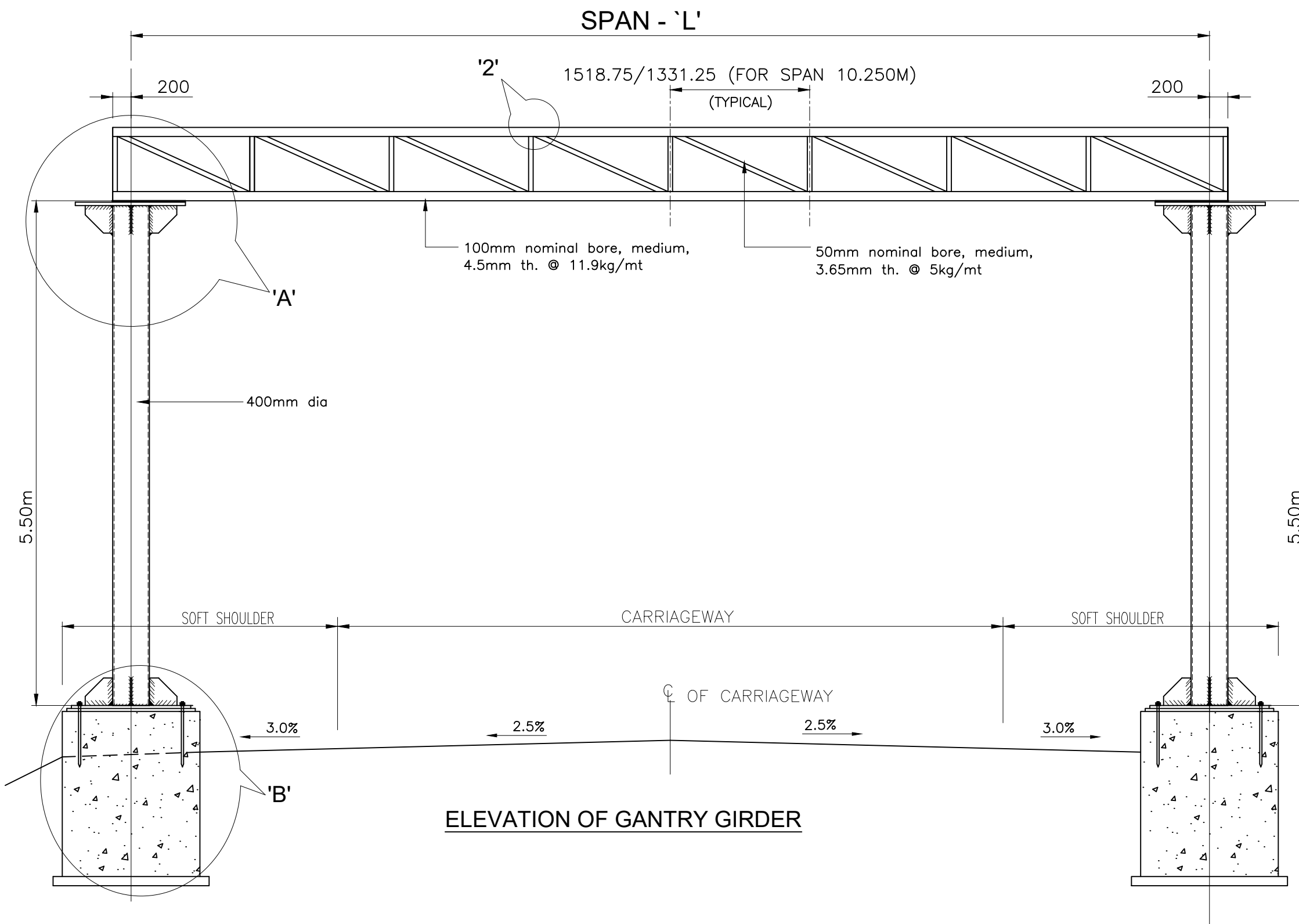


TOP/BOTTOM PLAN

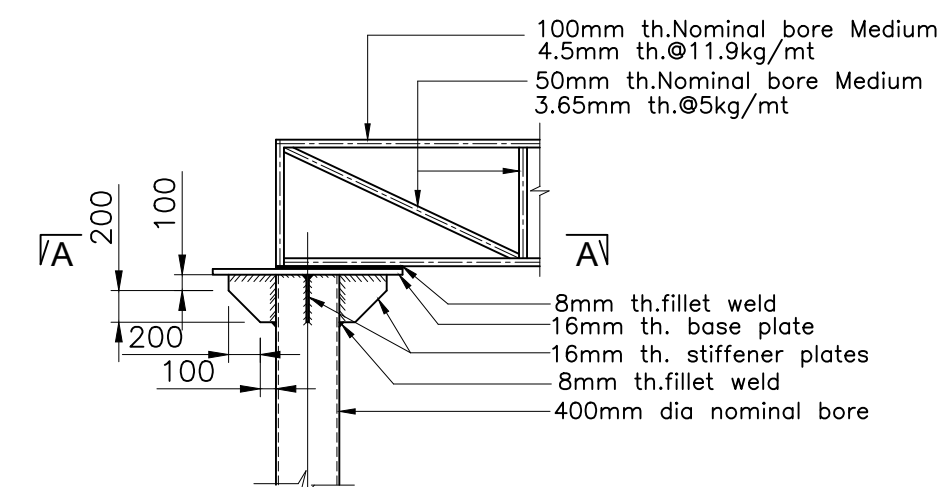


DETAIL-1

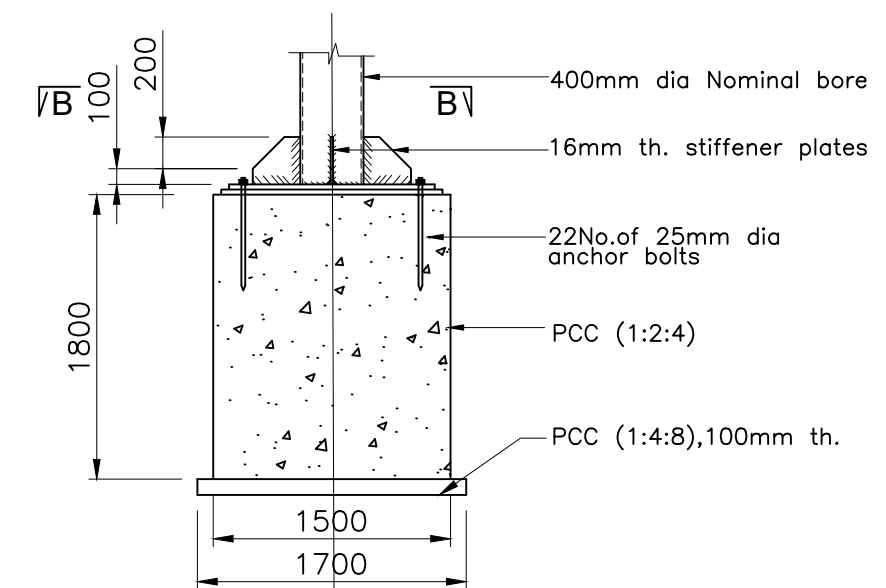
DETAIL-2



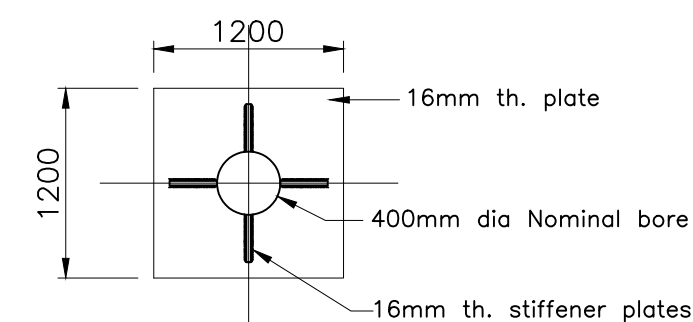
ELEVATION OF GANTRY GIRDER



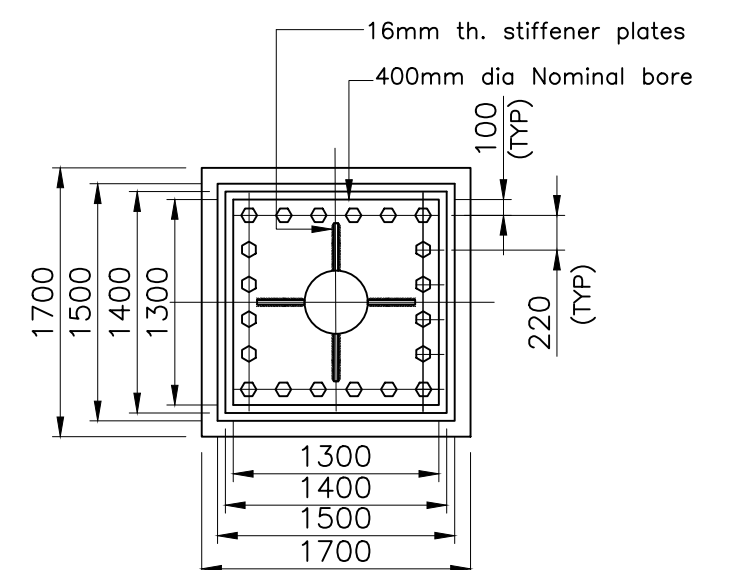
DETAIL - A



DETAIL - B

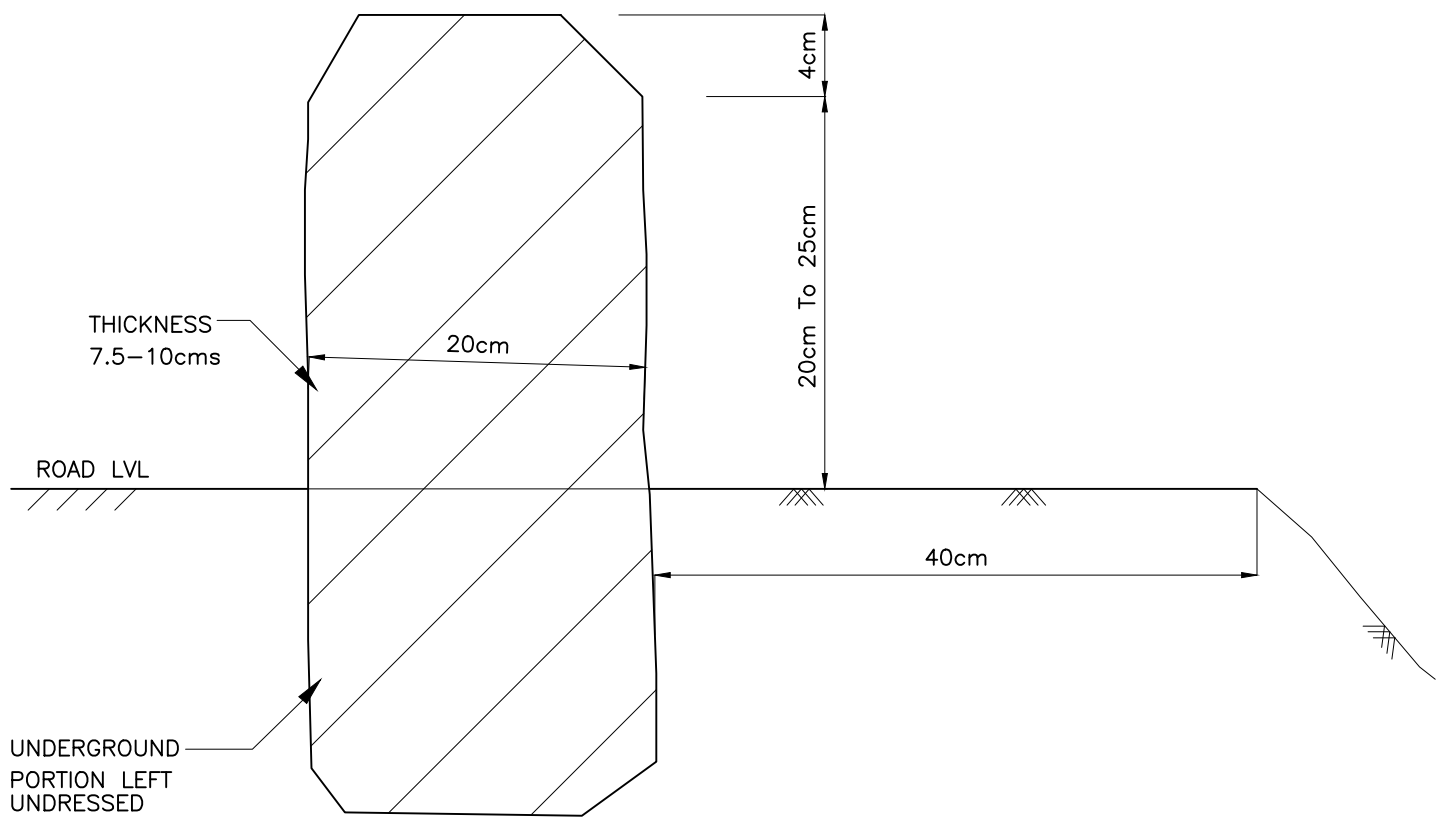


SECTION A-A
PLAN

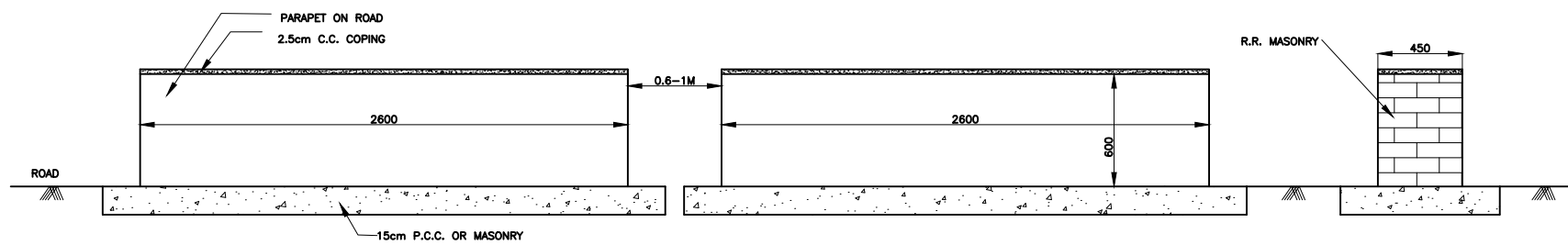


SECTION B-B
COLUMN BASE DETAILS

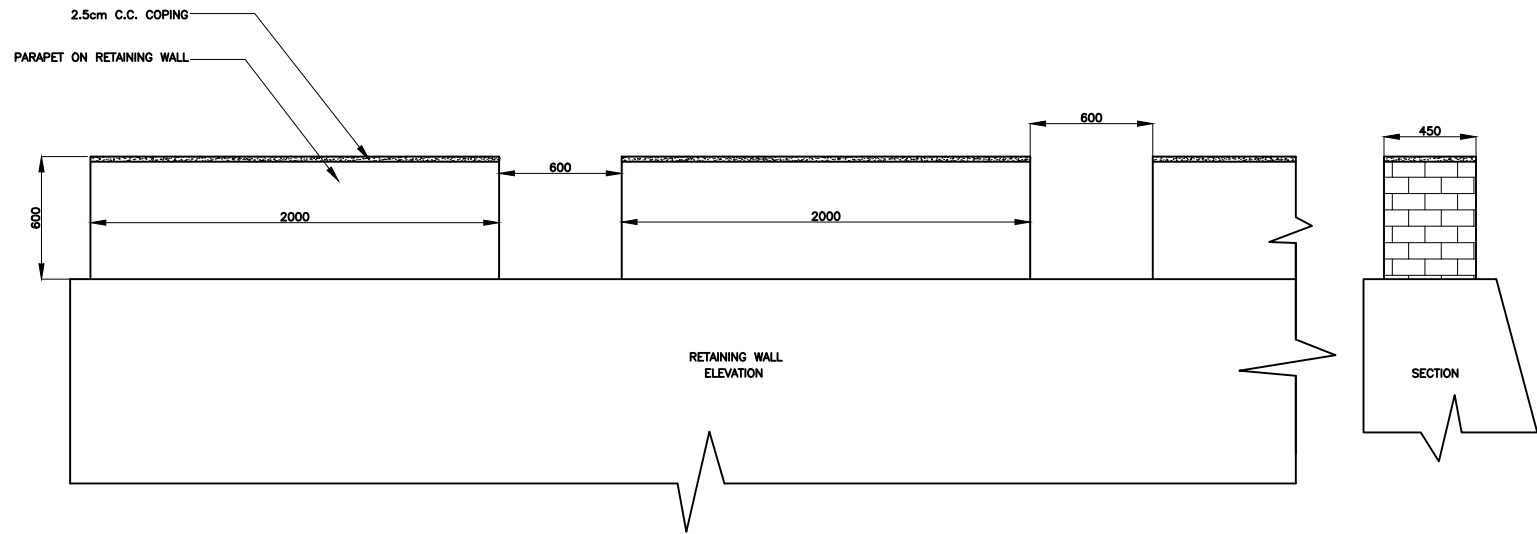
Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : JS	Title: TYPICAL DETAILS OF OVERHEAD GANTRY			
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : MK				
					Checked By : AH				
					Approved By : VY	Dwg No:XPL/DSD/SK/KM15.3/OG-01			
					Scale : NTS	Sheet: 1 OF 1	Date : Nov-2024	A2	



DETAIL 'A'



PARAPET ON ROAD



PARAPET ON RETAINING WALL

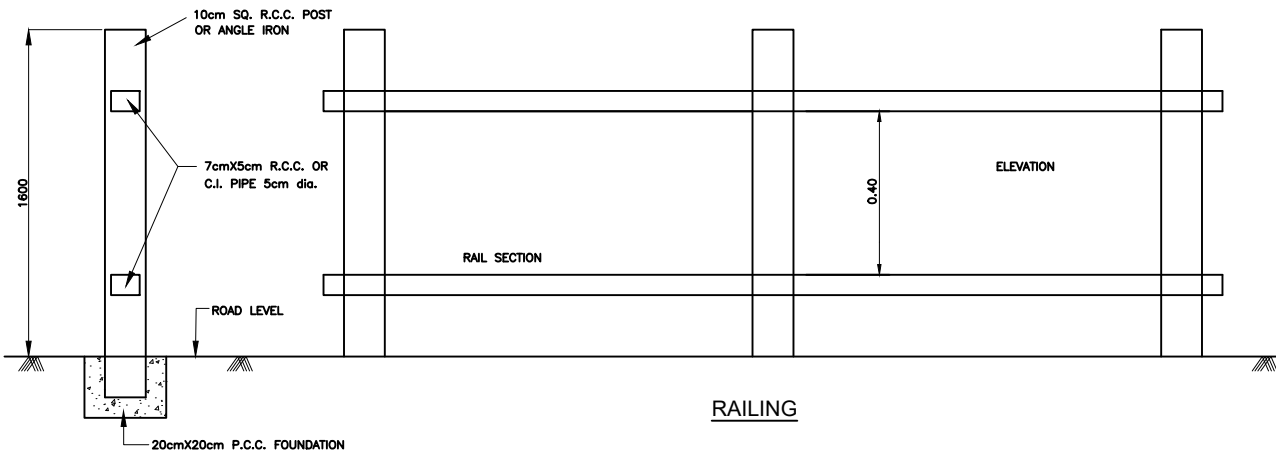
HILL SIDE

SIDE DRAIN

ROADWAY

EDGE STONE

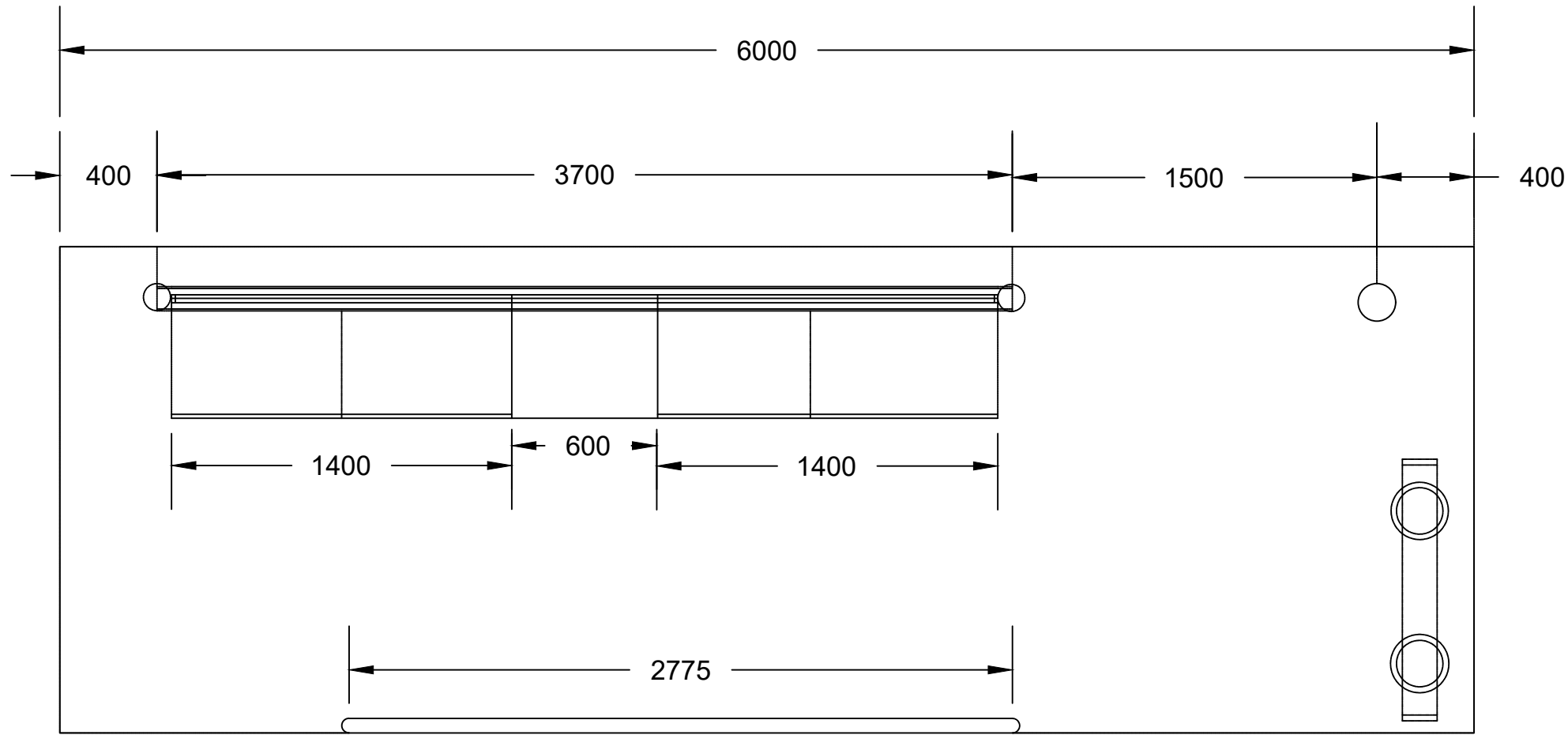
SECTION
EDGE STONE



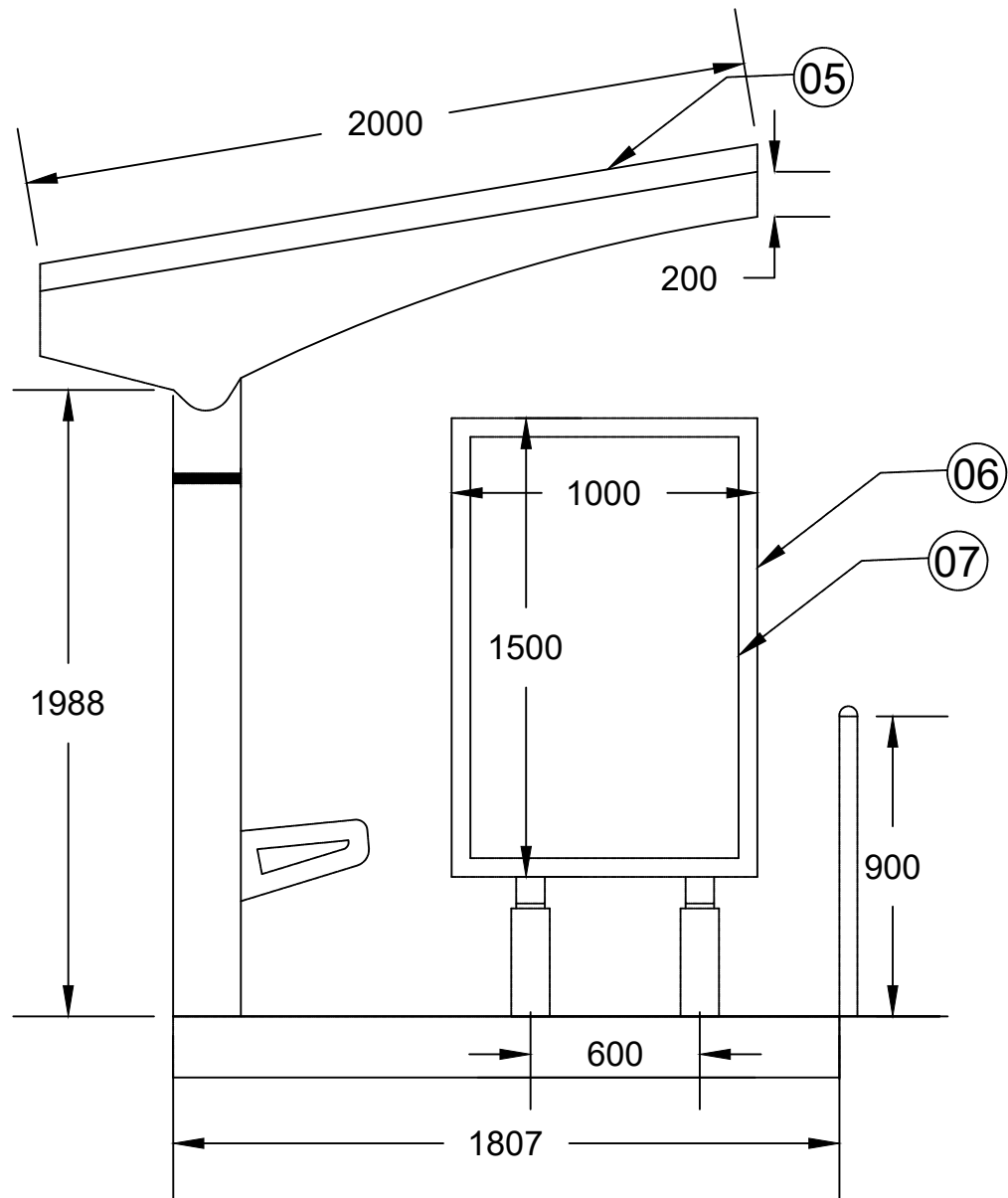
RAILING

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : JS	Title: PARAPET, RAILING AND EDGE STONE			
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301  In JV with  In Association with 	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029  DELHI	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : MK				
					Checked By : AH				
					Approved By : VY				
					Scale : NTS	Dwg No:XPL/DSD/SK/KM15.3/RL-01		Sheet: 1 OF 1	Date : Nov-2024
									A2

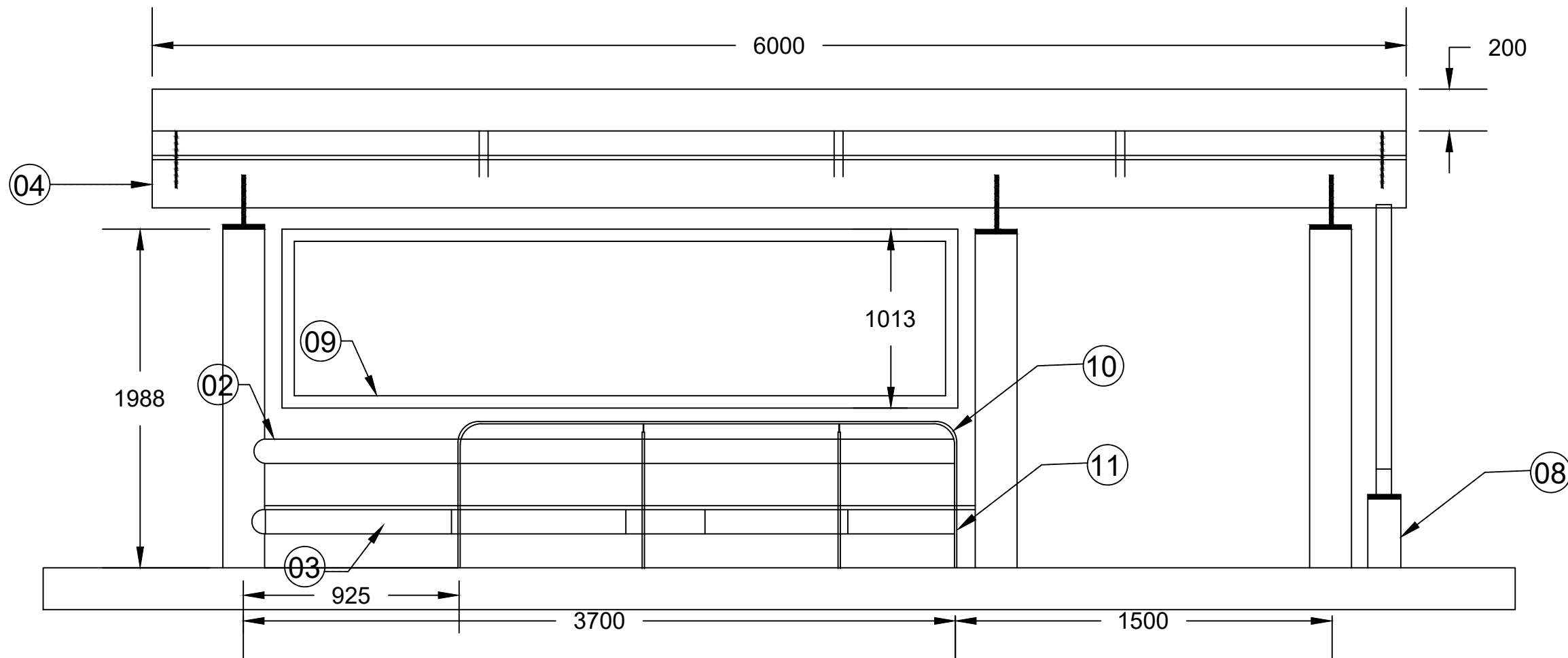
SR	DESCRIPTION	SIZE	MATERIAL
01	MAIN VERTICAL COLUMNS	OD.200mm X15 SWG	S.S 304
02	BACK SUPPORT PIPE	OD.75MM X17 SWG	S.S 304
03	BENCH SUPPORT PIPE	OD.150 X15 SWG	S.S 304
04	ROOF SUPPORT PIPE	OD.200mm X15 SWG	S.S 304
05	ROOF SUPPORT PLATES	2.5MM THK.	S.S 304
06	ADV BORD OUTER FRAME	100X40 X18 SWG	S.S 304
07	ADV BORD INNER FRAME	25X25X 18 SWG	M.S/G.I
08	ADV BORD COLUMNS (SIDE)	OD.150MM X15 SWG	S.S 304
09	ADV BORD FRAME (MAIN)	25X25X 18SWG	M.S/G.I
10	RAILING	OD.75MM X17 SWG	S.S 304
11	RAILING COLUMNS	OD.50MM X18 SWG	S.S 304



TOP PLAN



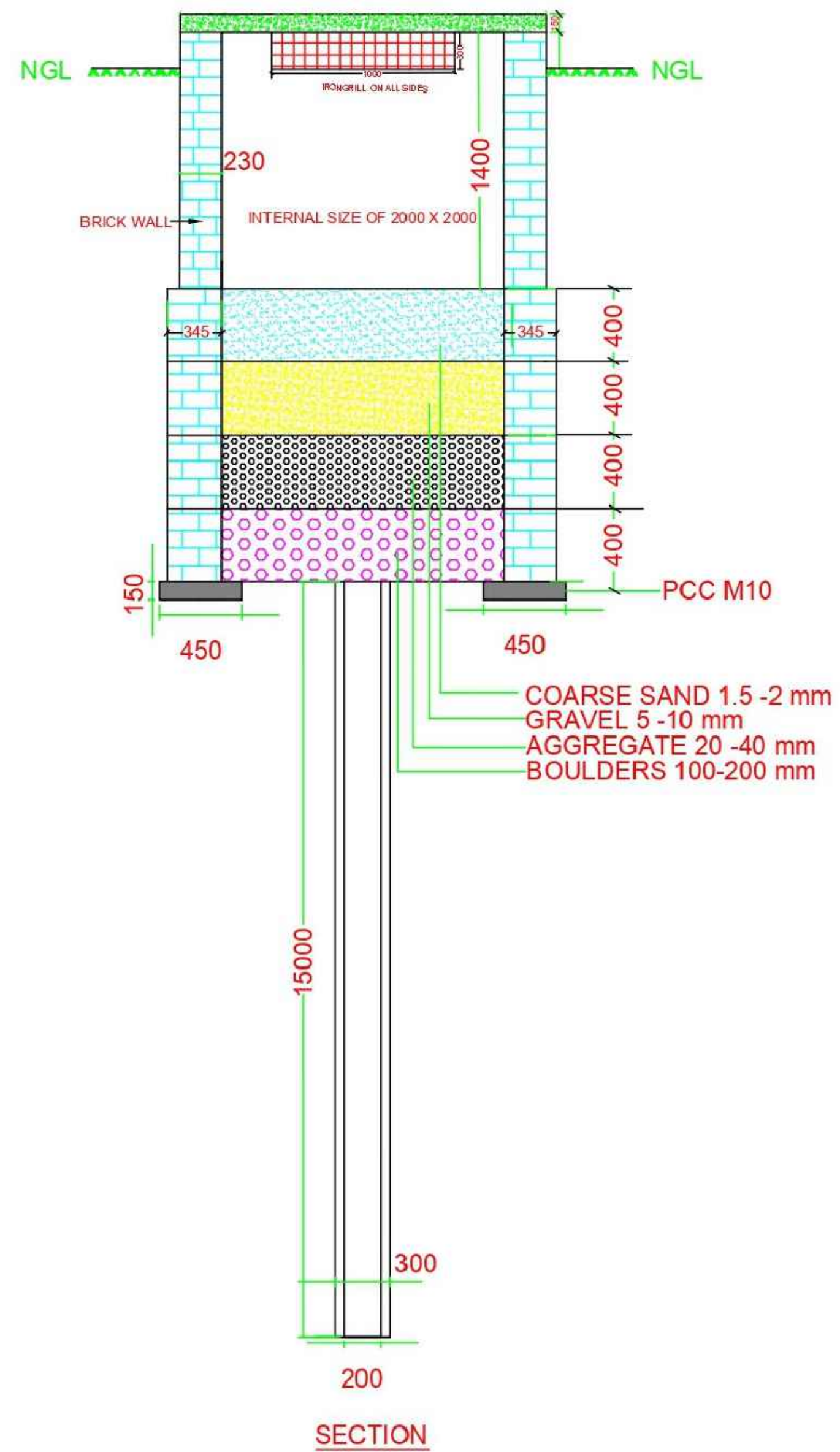
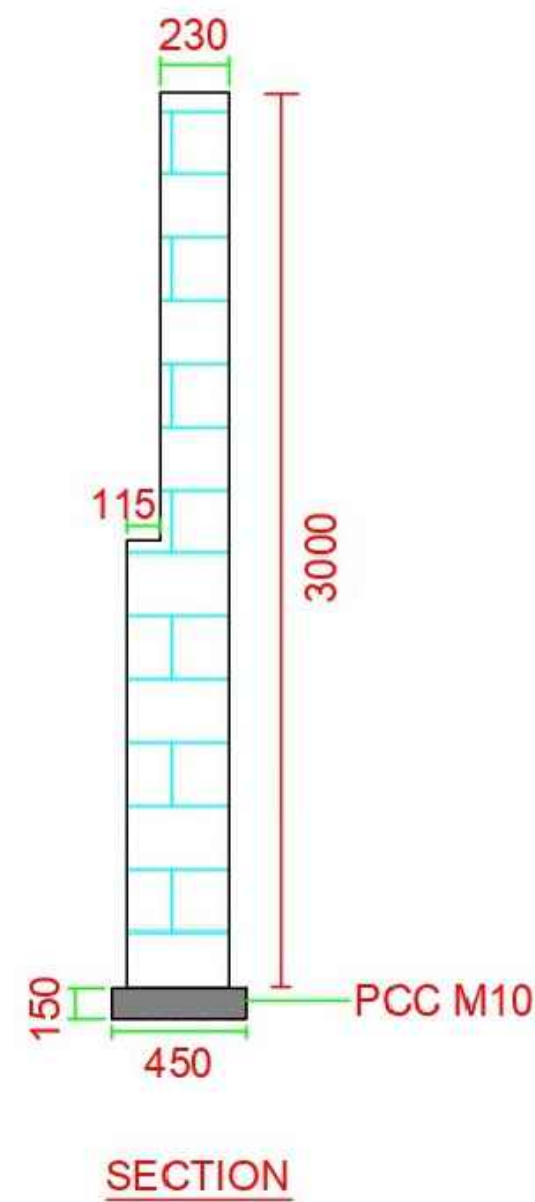
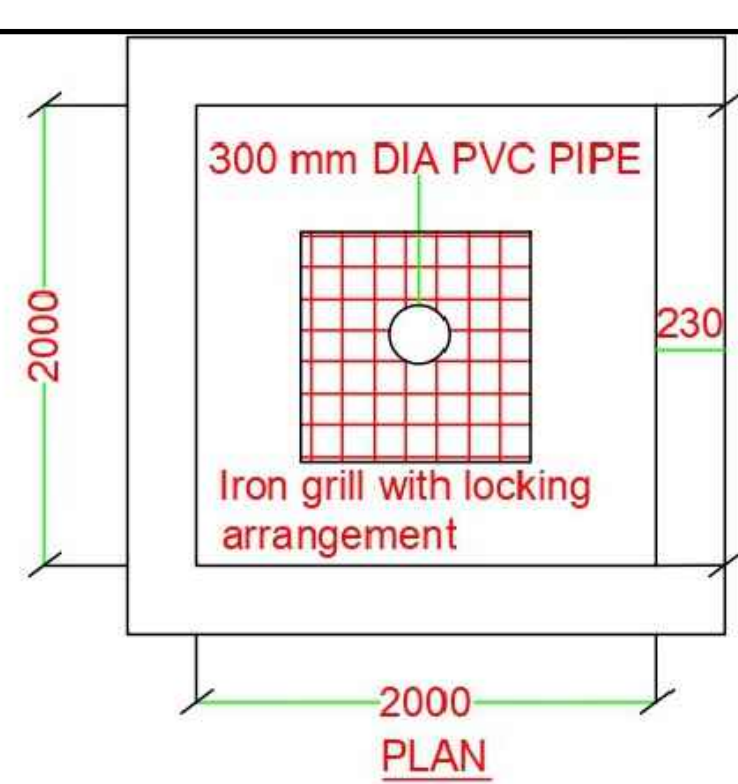
SIDE VIEW



FRONT ELEVATION

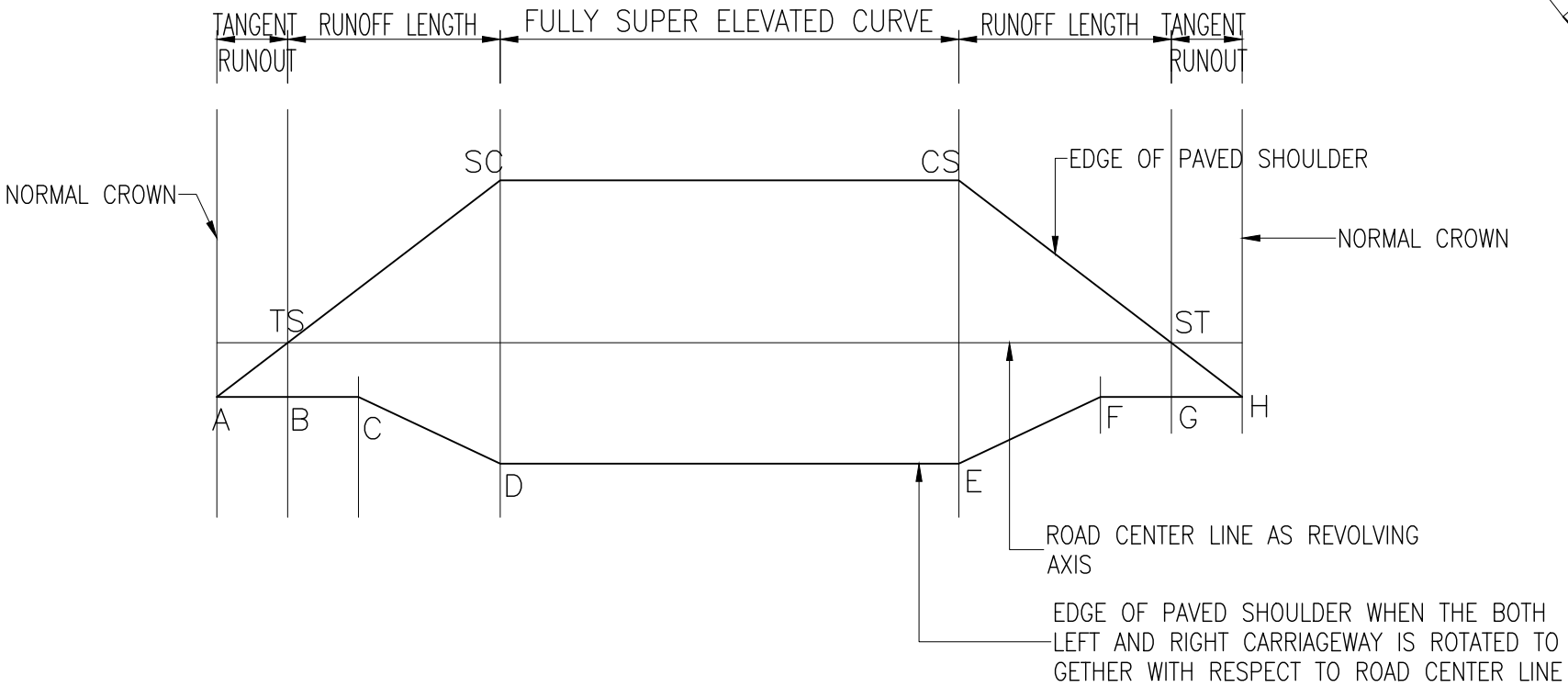
NOTE:- ALL DIMENSIONS ARE IN MM.

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : JS	Title: TYPICAL LAYOUT FOR BUS SHELTER			
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	DELHI National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : MK				
					Checked By : AH				
		 In JV with  In Association with 	 NATIONAL HIGHWAY & INFRASTRUCTURE DEVELOPMENT CORP. LTD.		Approved By : VY	Dwg No:XPL/DSD/SK/KM15.3/BS-01			
						Scale : NTS	Sheet: 1 OF 1	Date : Nov-2024	A2

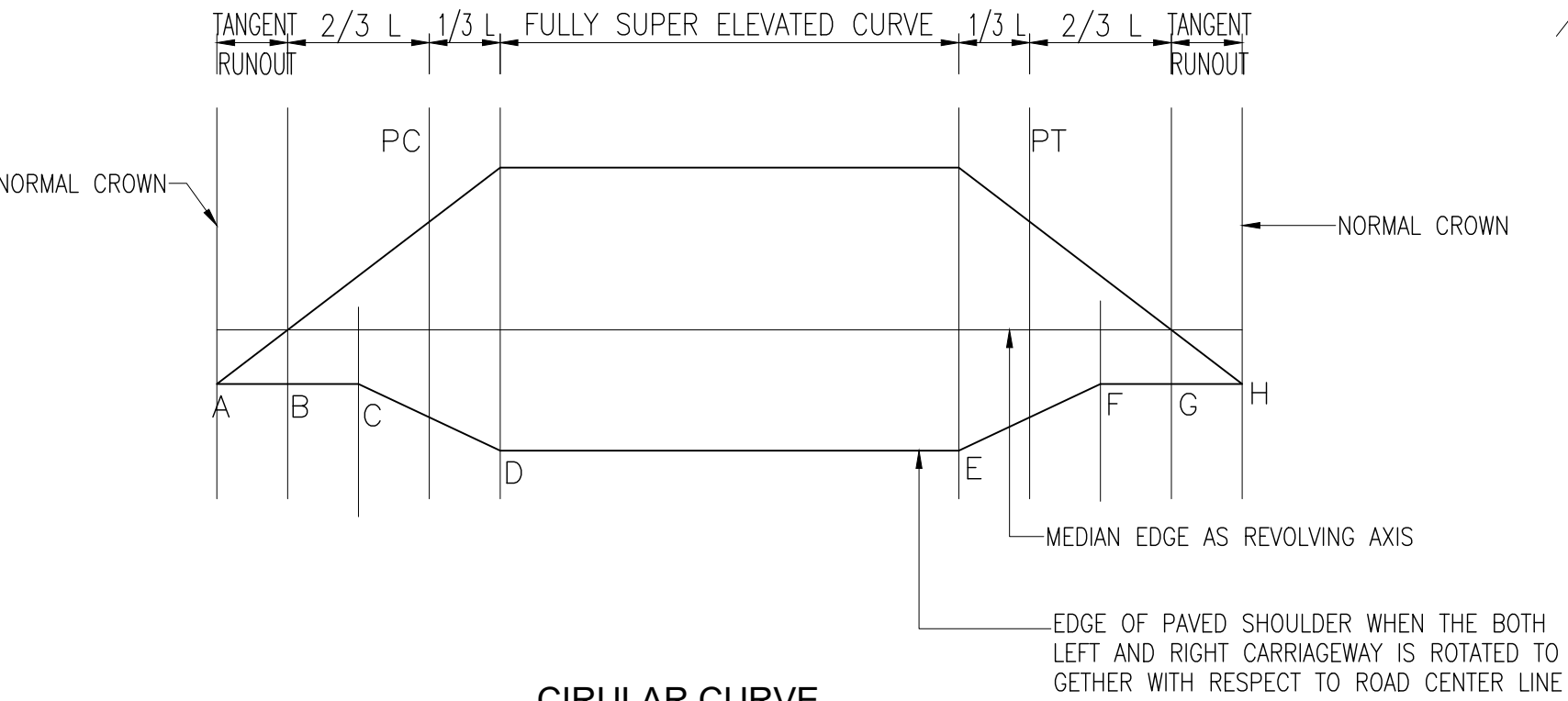


Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : JS	Title: RAIN WATER HARVESTING			
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, itum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK				
					Checked By : AH				
					Approved By : VY				
					Scale : NTS	Dwg No:XPL/DSD/SK/KM15.3/RW-01			
						Sheet: 1 OF 1	Date : Nov-2024	A2	

DETAILS OF SUPERELVATION

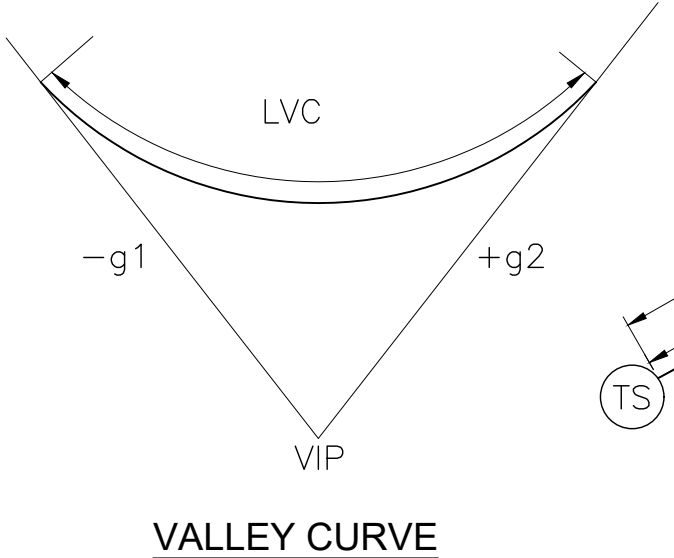


CIRCULAR CURVE WITH TRANSITION

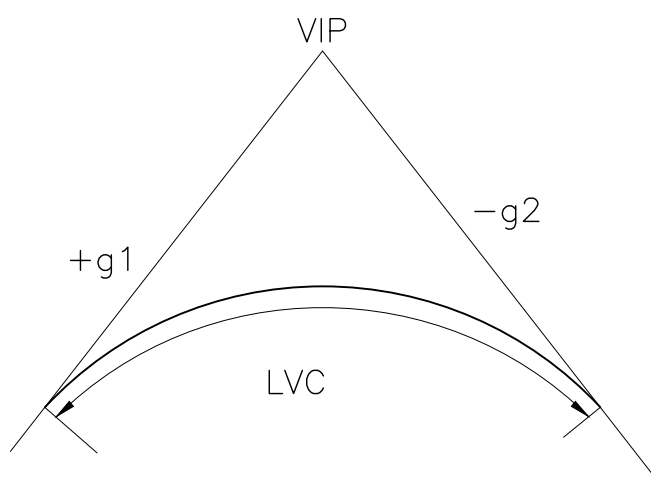


CIRCULAR CURVE

DETAILS OF VERTICAL CURVE

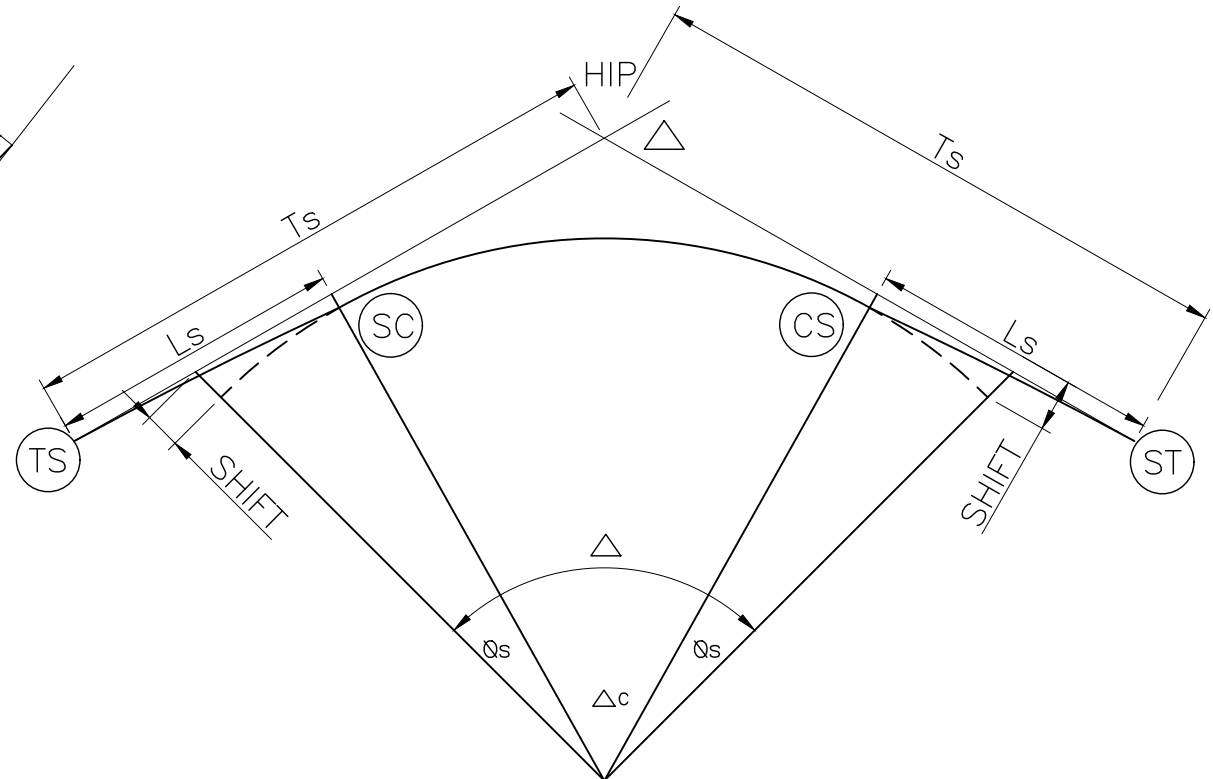


VALLEY CURVE

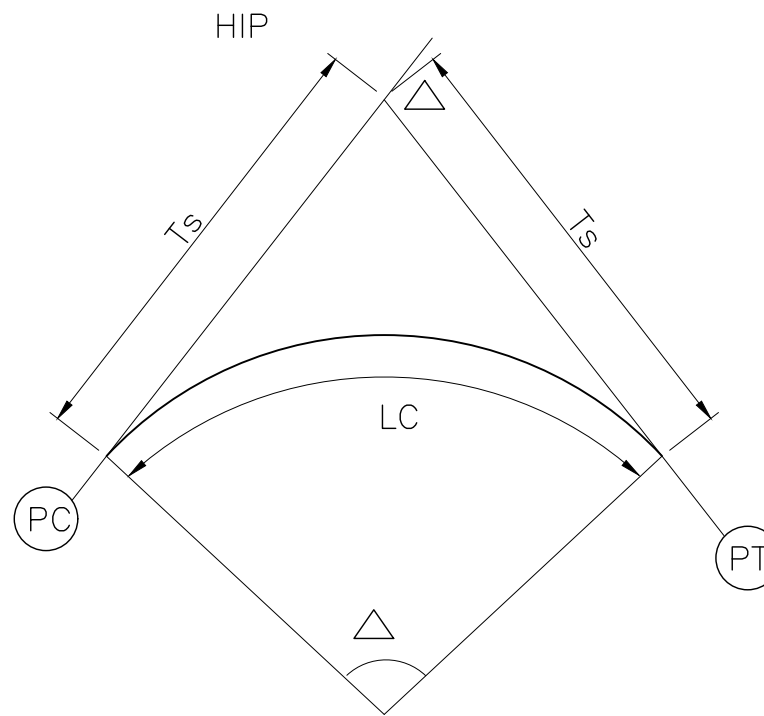


SUMMIT CURVE

DETAILS OF HORIZONTAL CURVE



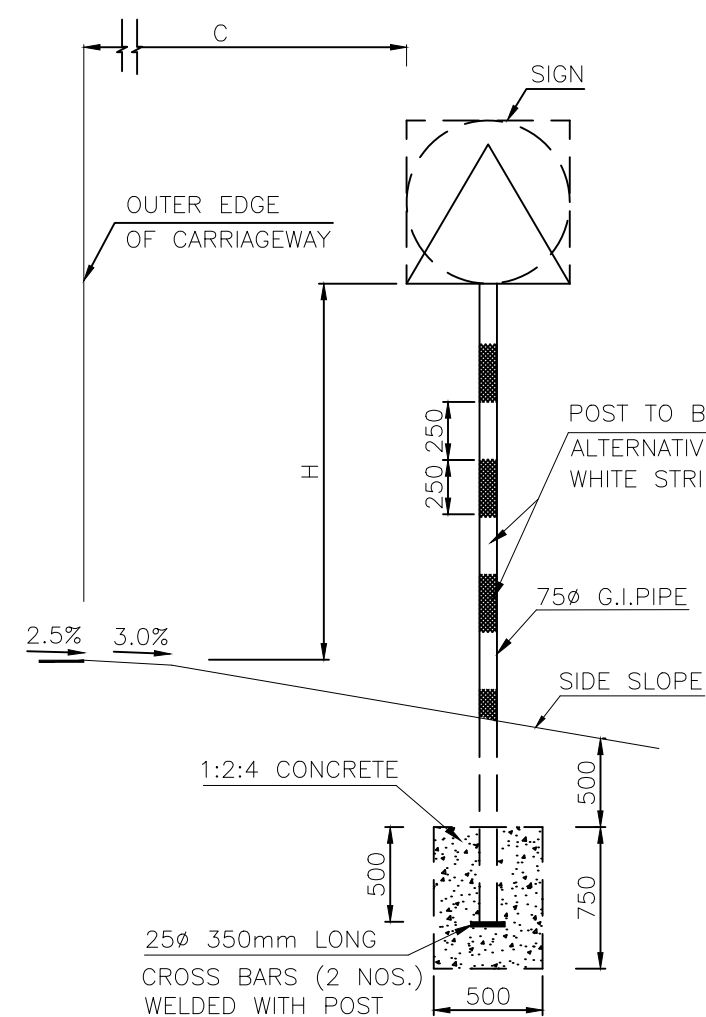
CIRCULAR CURVE WITH TRANSITION



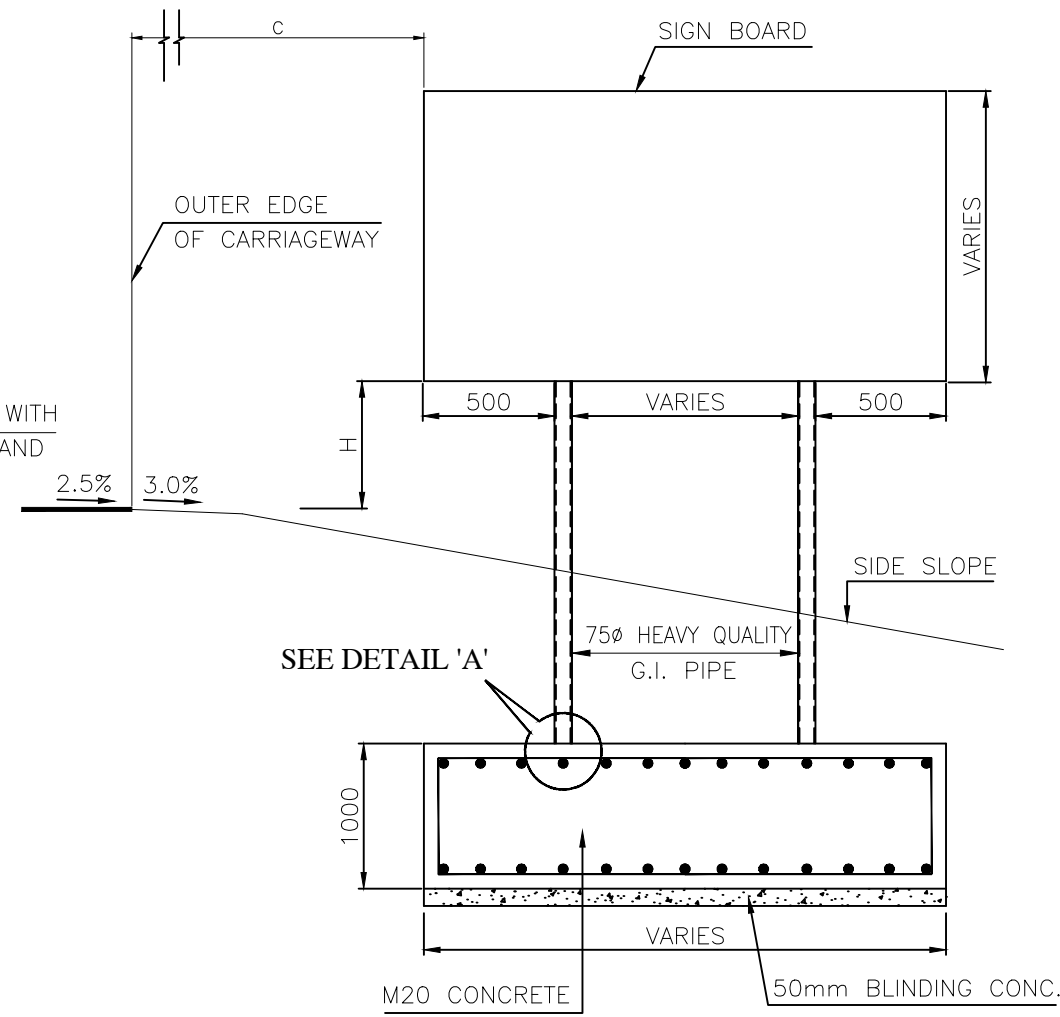
CIRCULAR CURVE

- (TS) TANGENT TO SPIRAL
- (SC) SPIRAL TO CURVE
- (CS) CURVE TO SPIRAL
- (ST) SPIRAL TO TANGENT
- (PC) POINT OF CURVETURE
- (PT) POINT OF TANGENT
- HIP HORIZONTAL INTERSECTION POINT
- LS LENGTH OF TRANSITION
- Ts TANGENT DISTANCE
- Δ TOTAL DEVIATION ANGLE
- Δs DEVIATION ANGLE OF TRANSITION CURVE
- LVC LENGTH OF VERTICAL CURVE
- g1 VERTICAL GRADIENT
- VIP VERTICAL INTERSECTION POINT

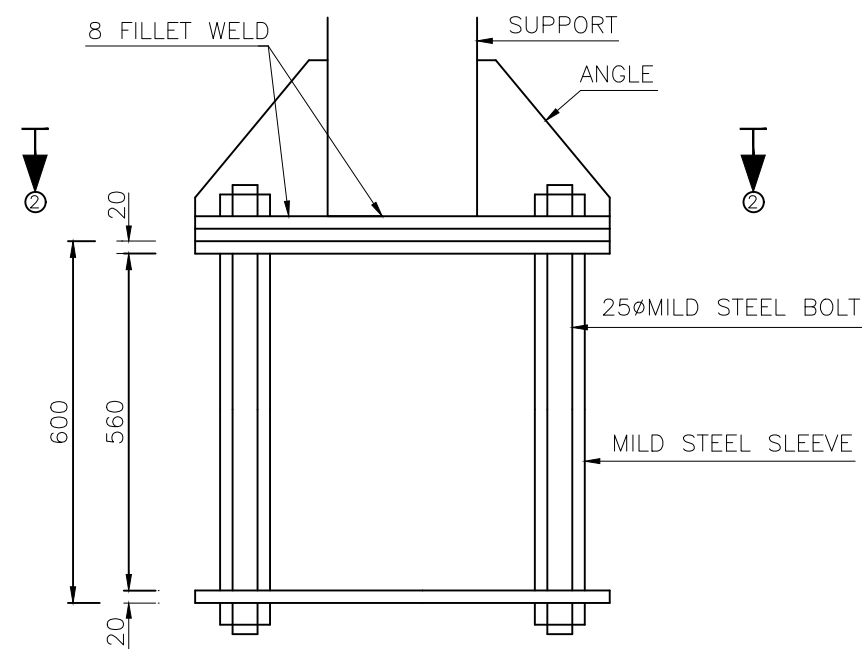
Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : JS	Title: DETAILS OF CURVE & SUPER ELEVATION			
		XPLORER CONSULTANCY SERVICES PVT. LTD. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	NATIONAL HIGHWAY & INFRASTRUCTURE DEVELOPMENT CORP. LTD. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : MK				
					Checked By : AH				
					Approved By : VY	Dwg No:XPL/DSD/SK/KM15.3/CU-01			
						Scale : NTS	Sheet: 1 OF 1	Date : Nov-2024	A2



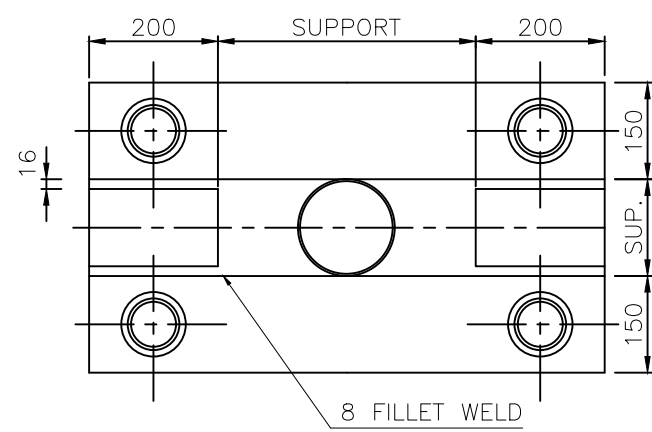
DETAILS FOR SIGN WITH SINGLE SUPPORT



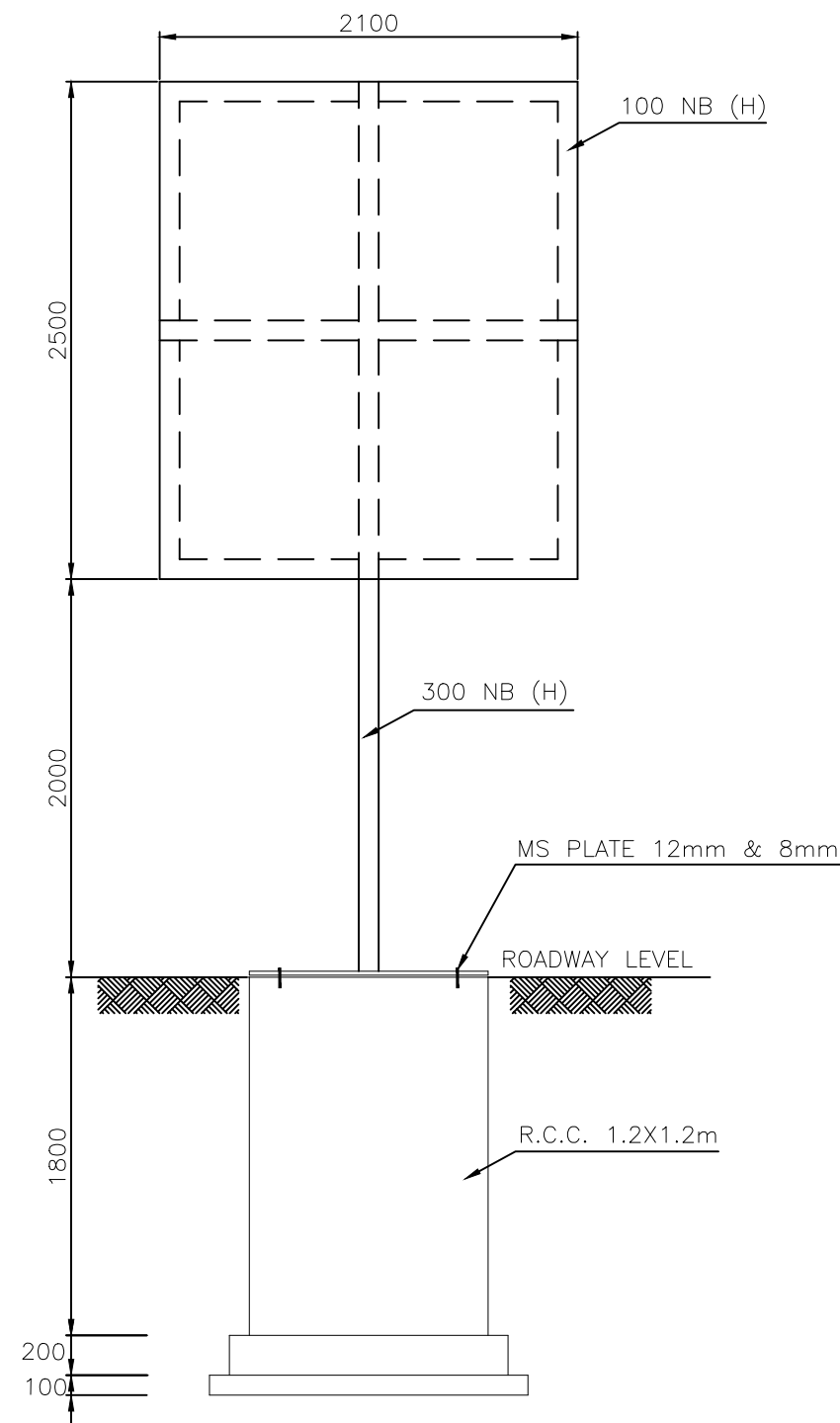
DETAILS FOR SIGN WITH DOUBLE SUPPORT



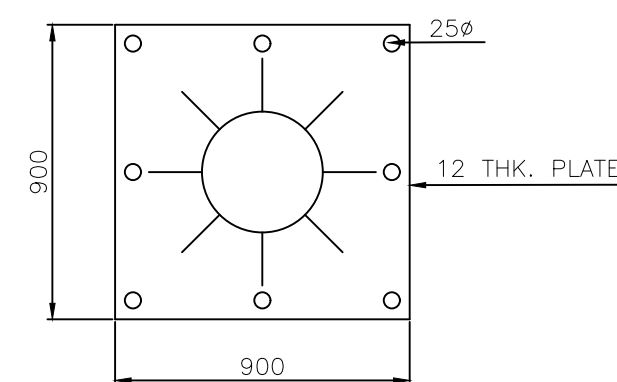
DETAIL-A



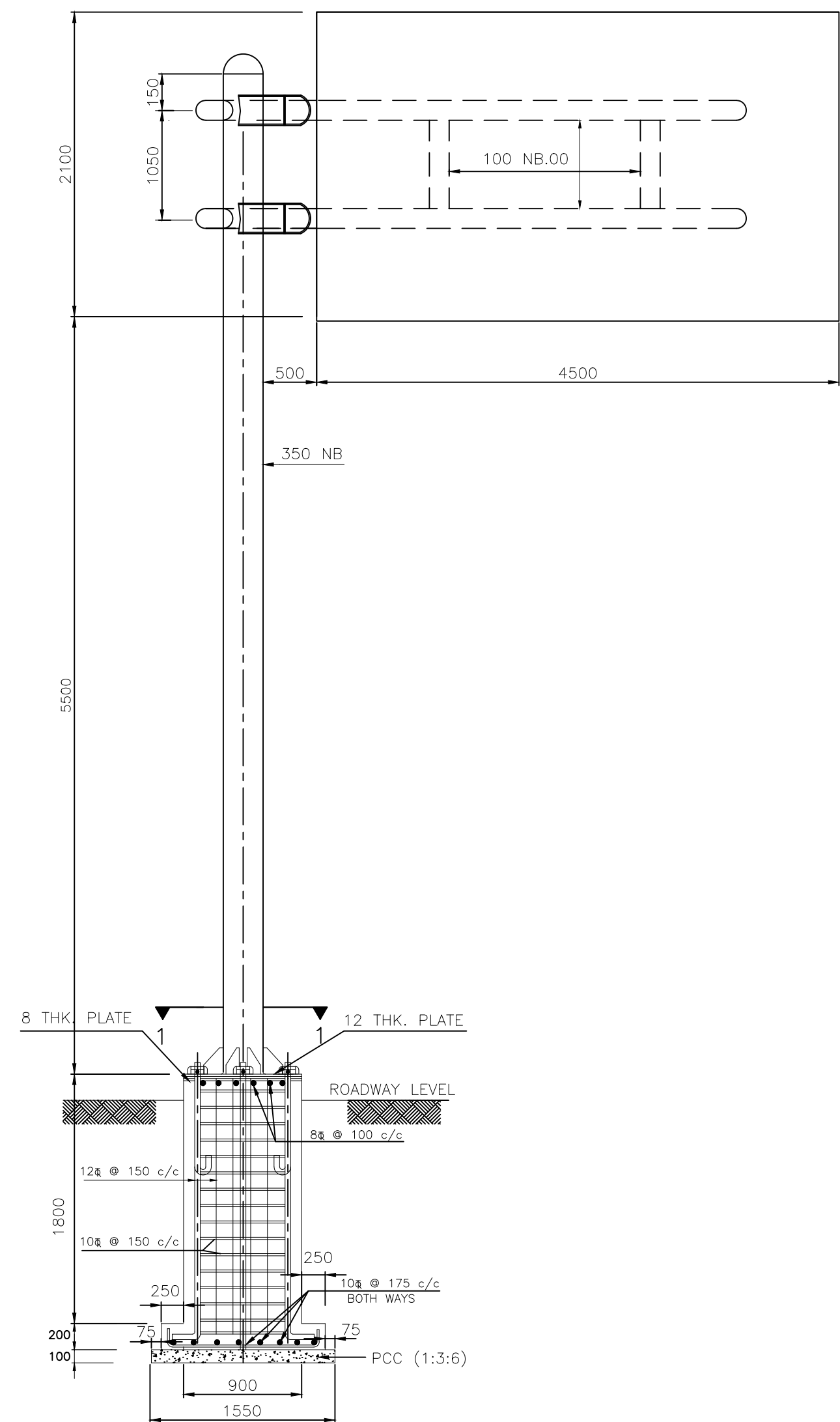
SECTION 2-2



DETAILS OF SIGN POST

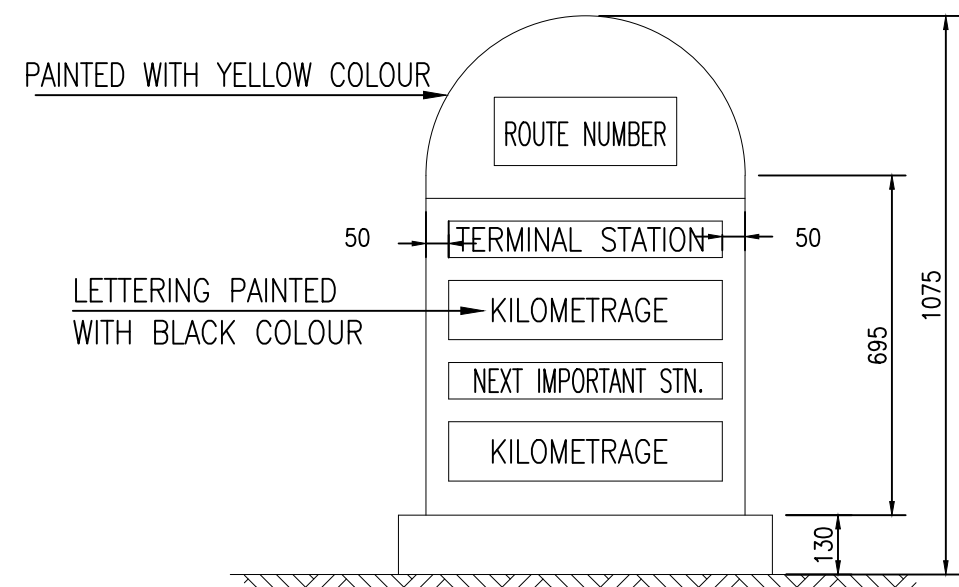


SECTION 1-1

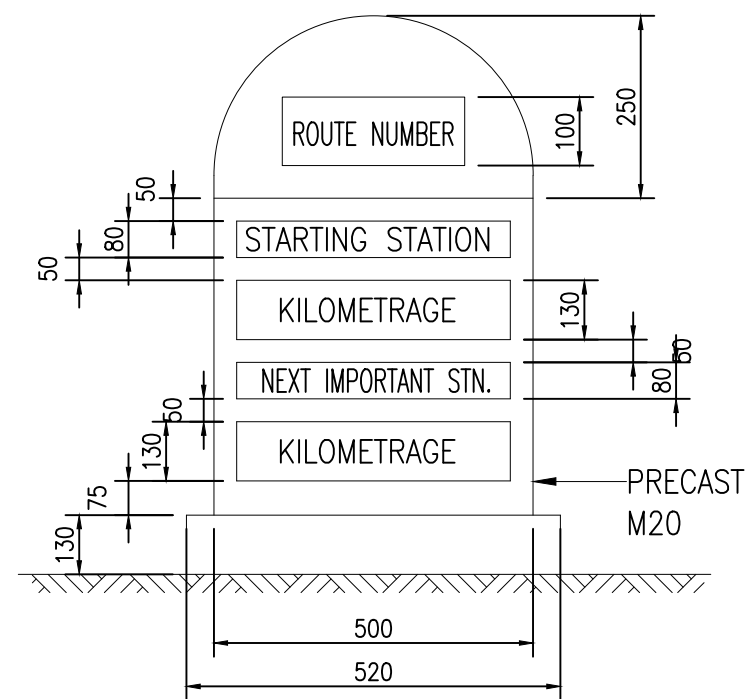


DETAILS FOR CANTILEVER TYPE OVERHEAD SIGN

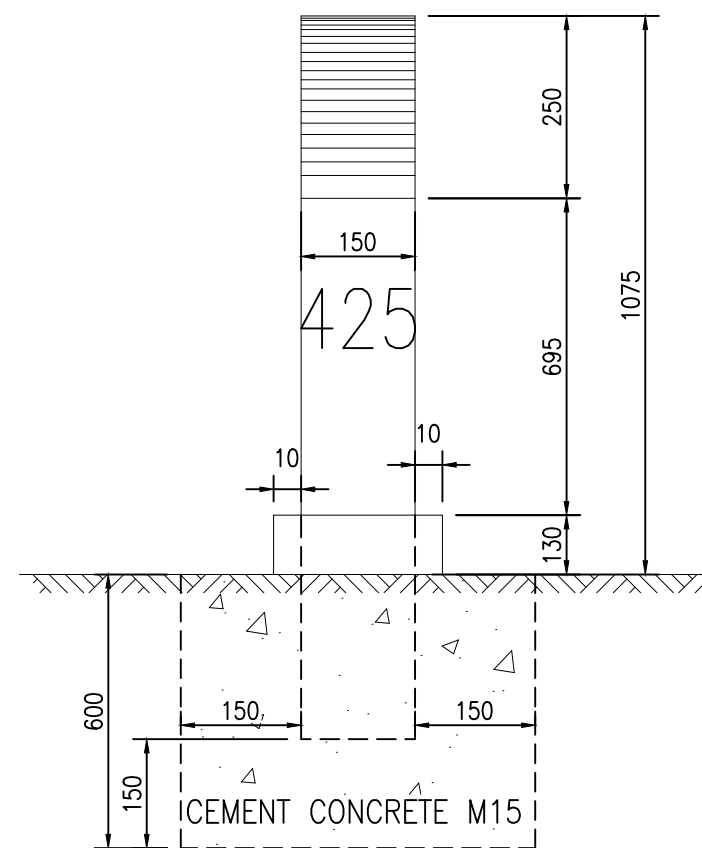
Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : JS	Title: TYPICAL CANTILEVER TYPE OVERHEAD SIGN			
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : MK				
					Checked By : AH				
					Approved By : VY				
					Scale : NTS	Dwg No:XPL/DSD/SK/KM15.3/OS-01			
						Sheet: 1 OF 1	Date : Nov-2024	A2	



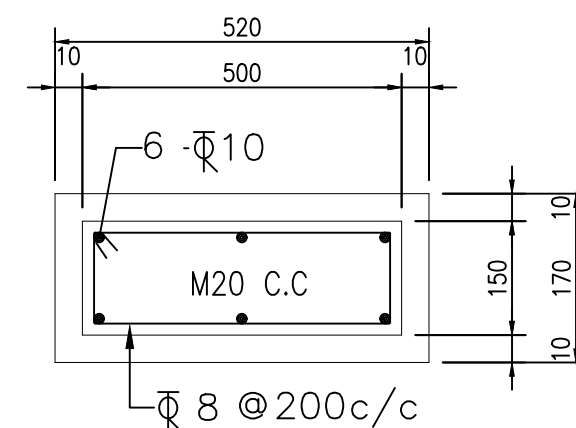
FACE 1



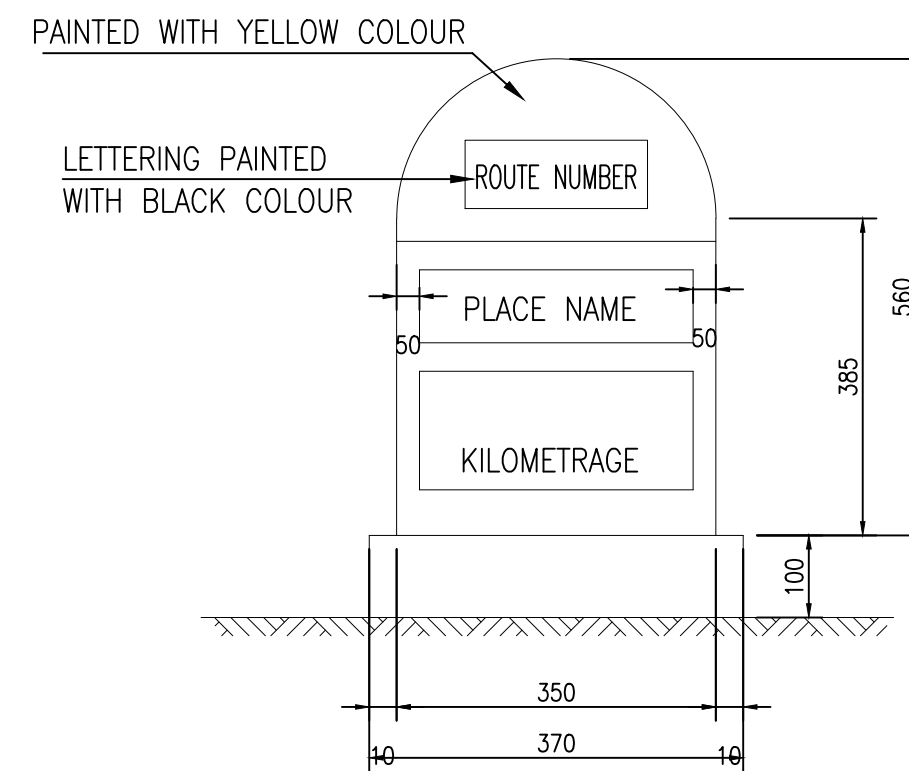
FACE 2



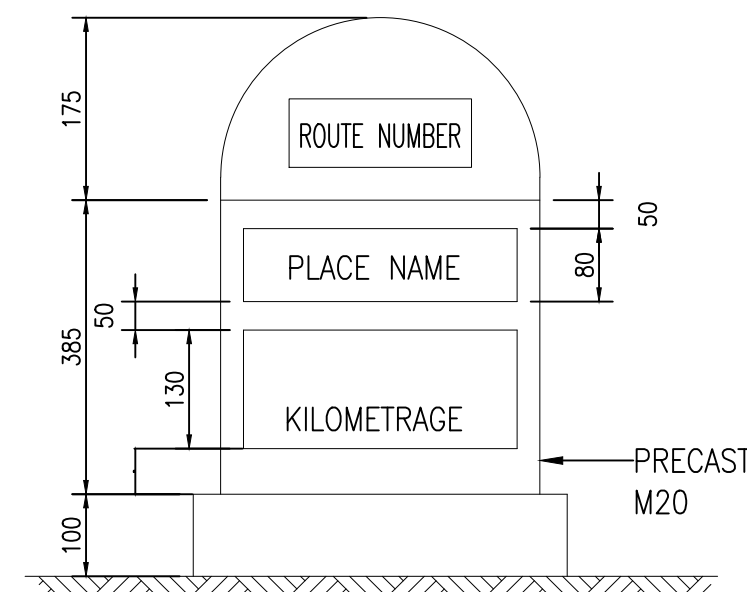
SIDE ELEVATION



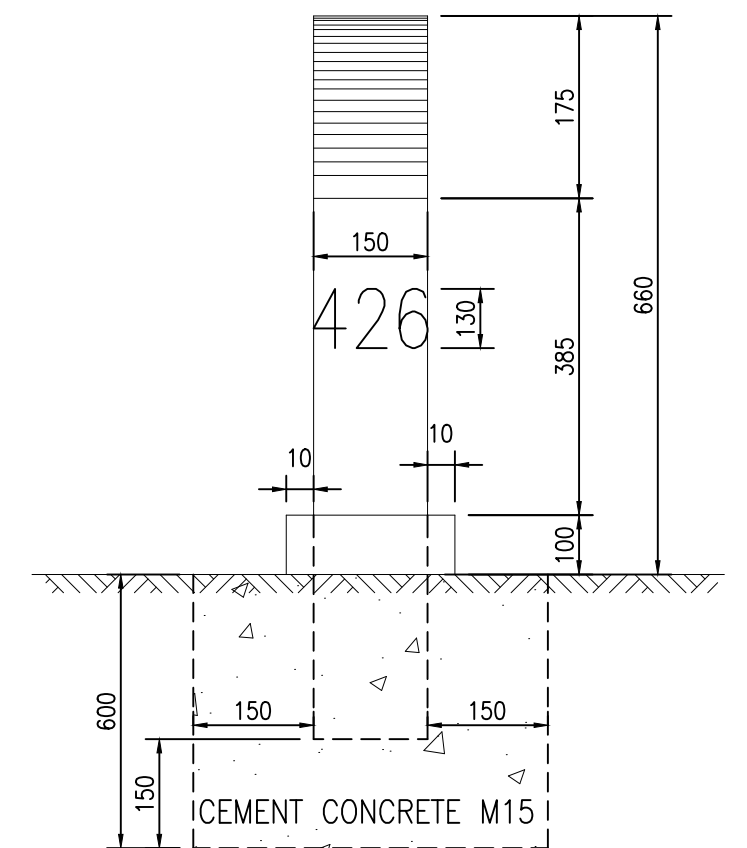
SECTIONAL PLAN



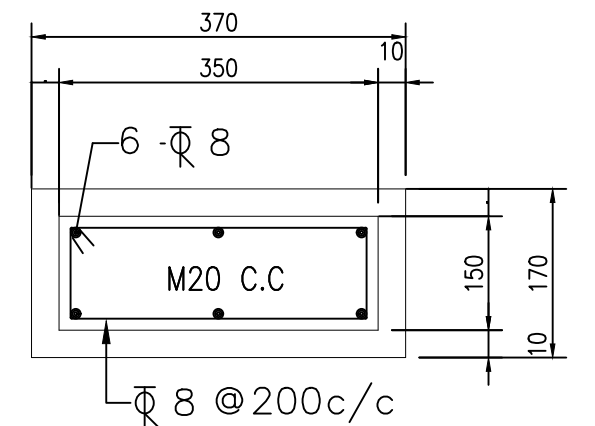
FACE 1



FACE 2



SIDE ELEVATION



SECTIONAL PLAN

TYPICAL DESIGN FOR THE 5TH KILOMETRE STONE

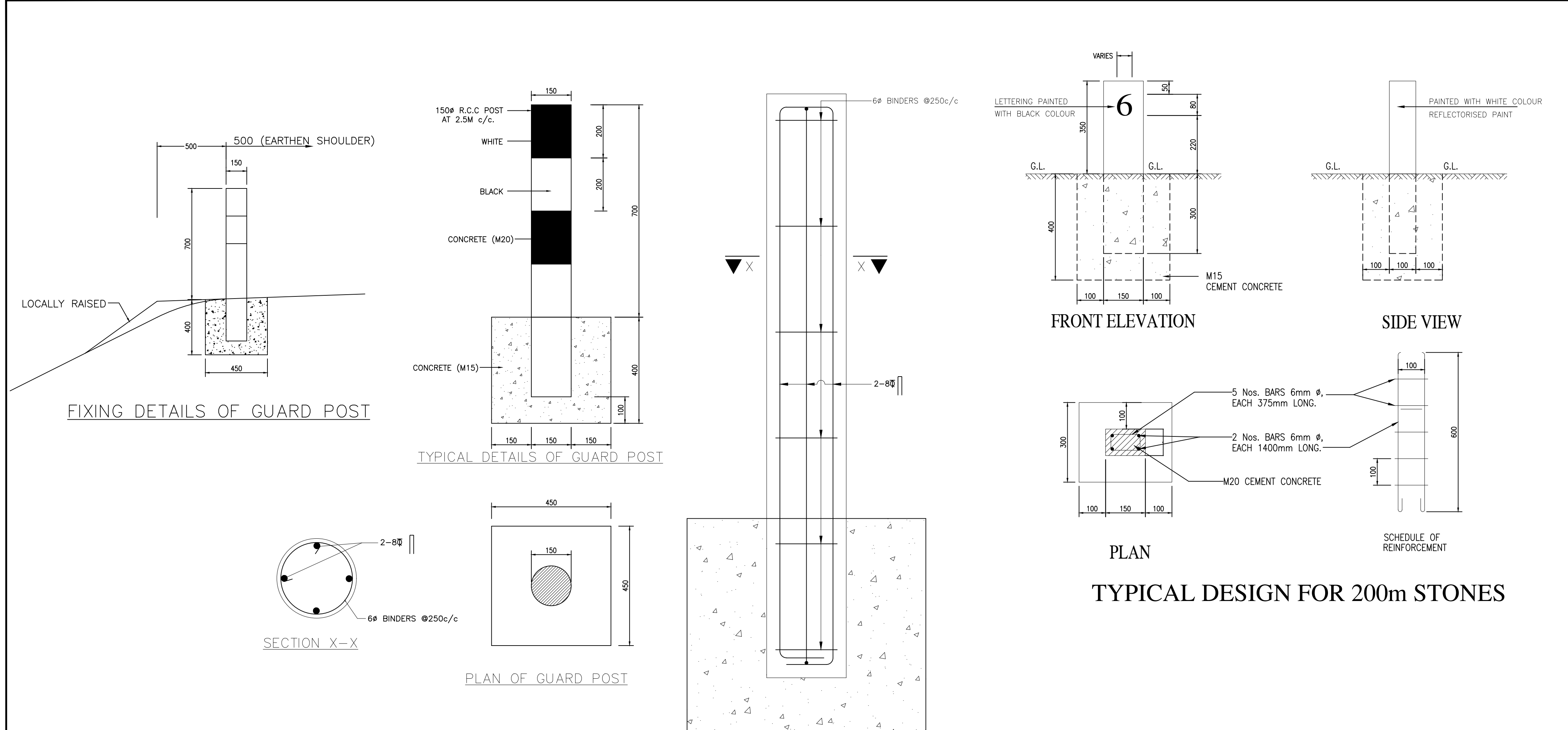
TYPICAL DESIGN FOR ORDINARY KILOMETRE STONE

INDEX FOR KILOMETRE STONES		
Km No.	SCRIPT FOR PLACE NAMES	PLACE TO BE SHOWN
0	ROMAN	TERMINAL/STARTING STATION AND NEXT IMPORTANT TOWN
1	HINDI (DEVANAGARI SCRIPT)	NEXT IMPORTANT TOWN
2	LOCAL LANGUAGE	NEXT IMPORTANT TOWN
3	HINDI (DEVANAGARI SCRIPT)	TERMINAL / STARTING STATION
4	LOCAL LANGUAGE	TERMINAL / STARTING STATION
5	ROMAN	TERMINAL/STARTING STATION AND NEXT IMPORTANT TOWN
6	HINDI (DEVANAGARI SCRIPT)	NEXT IMPORTANT TOWN

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- REFLECTORISED PAINT SHALL BE IN ACCORDANCE WITH CL.803.5 OF M.O.R.T & H SPEC.
- FOR TYPE & STYLE SIZE OF LETTERING RELEVANT IRC CODE OF PRATICE SHALL BE REFERED.
- LETTERING IS DONE WITH APPROVED QUALITY BLACK ENAMEL PAINT USING STENCIL

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : JS	Title: TYPICAL DRAWING OF KM STONE		
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	Drawn By : MK			
					Checked By : AH			
					Approved By : VY	Dwg No:XPL/DSD/SK/KM15.3/KM-01		
					Scale : NTS	Sheet: 1 OF 2	Date : Nov-2024	A2



NOTES:

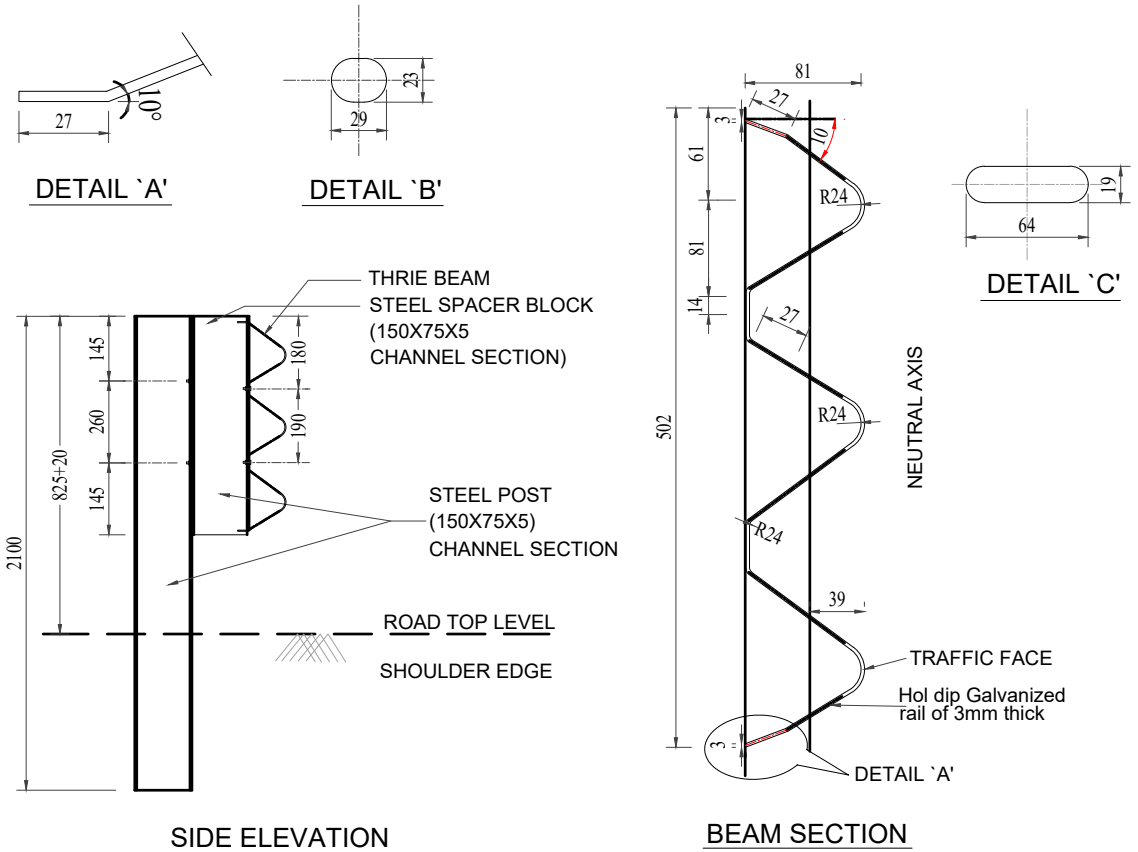
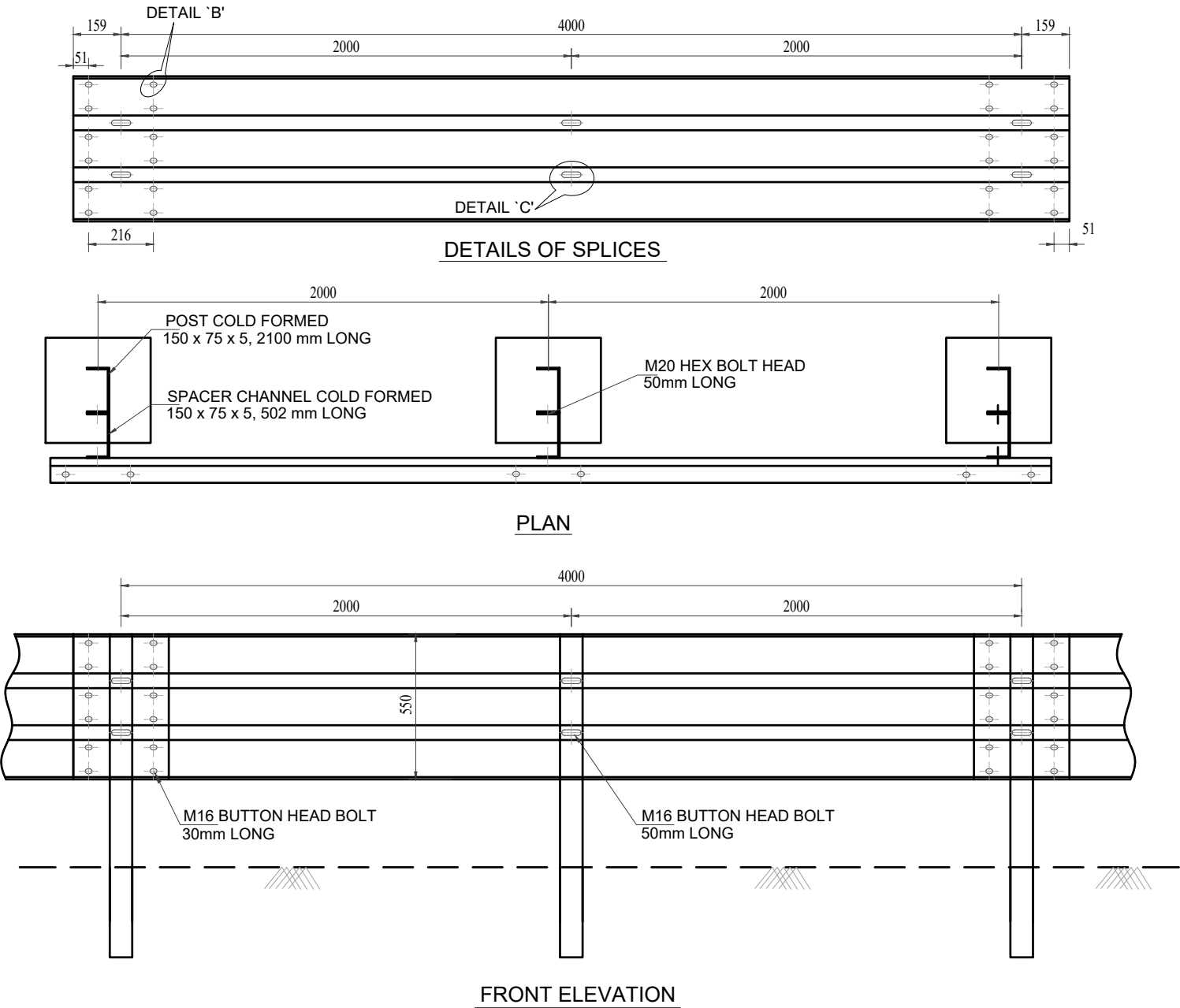
- 1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE MENTIONED.
- 2. FOR EXACT DETAILS OF W-BEAM, REFER MANUFACTURER DRAWING.
- 3. W-BEAM BARRIER IS INSTALLED WHERE EMBANKMENT HEIGHT IS MORE THAN 6 METRES & AT IMMEDIATE BRIDGE APPROACHES.
- 4. R.C.C. GUARD POSTS IS TO BE INSTALLED AS PER THE INSTRUCTIONS OF ENGINEER.

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. REFLECTORISED PAINT SHALL BE IN ACCORDANCE WITH CL.803.5 OF M.O.R.T & H SPEC.
- 3. FOR TYPE & STYLE SIZE OF LETTERING RELEVANT IRC CODE OF PRATICE SHALL BE REFERED.
- 4. LETTERING IS DONE WITH APPROVED QUALITY BLACK ENAMEL PAINT USING STENCIL

Rev.No.	Description For Revision.	Design Consultant:	Client:	Project :	Design By : JS	Title: TYPICAL DRAWING OF KM STONE			
		Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd. in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301 	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029 	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	Drawn By : MK				
					Checked By : AH				
					Approved By : VY				
					Scale : NTS	Dwg No:XPL/DSD/SK/KM15.3/KM-02		Sheet: 2 OF 2	
						Date : Nov-2024		A2	

DETAILS OF THRIE-BEAM CRASH BARRIERS



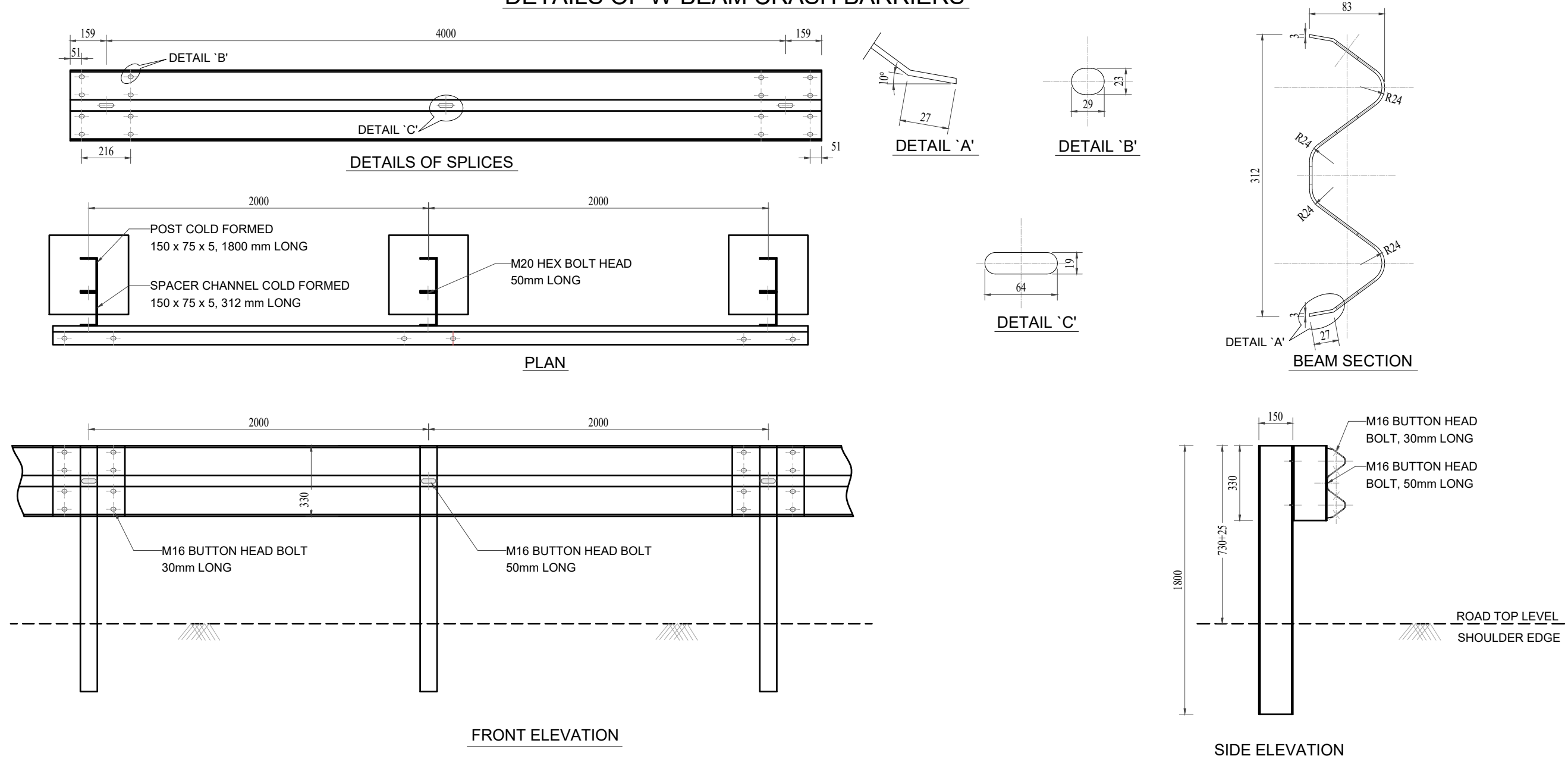
NOTE:

- HEIGHT OF POSTS SHOULD BE 825mm LONG ABOVE THE FINISHED ROAD LEVEL.
- SPACING OF POSTS SHOULD BE 2.0m C/C.
- POST CONSISTS OF FORMED CHANNEL OF SIZE 150 x 75 x 5, 825mm LONG ABOVE GROUND LVL.
- SPACER CONSISTS OF FORMED CHANNEL OF SIZE 150 x 75 x 5, 502mm LONG.
- BUTTON HEAD BOLTS M16 x 30mm LONG, 12 Nos FOR THE SPLICING OF THE W PROFILE AT EACH LOCATION.
- BUTTON HEAD BOLTS M16 x 50mm LONG, 2 Nos AT THE CONNECTION OF THE THRIE BEAM TO SPACER.
- HEX HEAD BOLTS M20 x 50mm LONG, 2 Nos AT THE CONNECTION OF THE SPACER TO POST.
- THE BASE MATERIAL OF THE CORRUGATED BEAM SHALL COMPLY TO FOLLOWING MECHANICAL PROPERTIES:-
 - TENSILE STRENGTH, MIN=483 MPA.
 - ELONGATION, in 2 inches, MIN = 12%
 - YIELD, MIN=345 MPA.
- ALL MEMBERS OF THE SYSTEM SHOULD BE HOT DIPPED GALVANIZED AND TO HAVE A MINIMUM COATING OF 550g/Sq m, EACH FACE IN CONFORMANCE TO M.O.R.T & H. SPECIFICATIONS (CLAUSE 810).



Color Code	Abbreviation	Design Consultant:	Client:	Project :	Design By : RK	Title: Thrie Beam Details	
		 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Grading Of Existing Carriageway into 2L +PS Configuration From Reshi(Km 96.254) . To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim ".	Drawn By : MK		
					Checked By : AH		
					Approved By : VY	Dwg No: XPL/DSD/SK/KM15.3/TB-01	
					Scale : NTS	Sheet: 01 OF 02	Date : Nov-2024

DETAILS OF W-BEAM CRASH BARRIERS

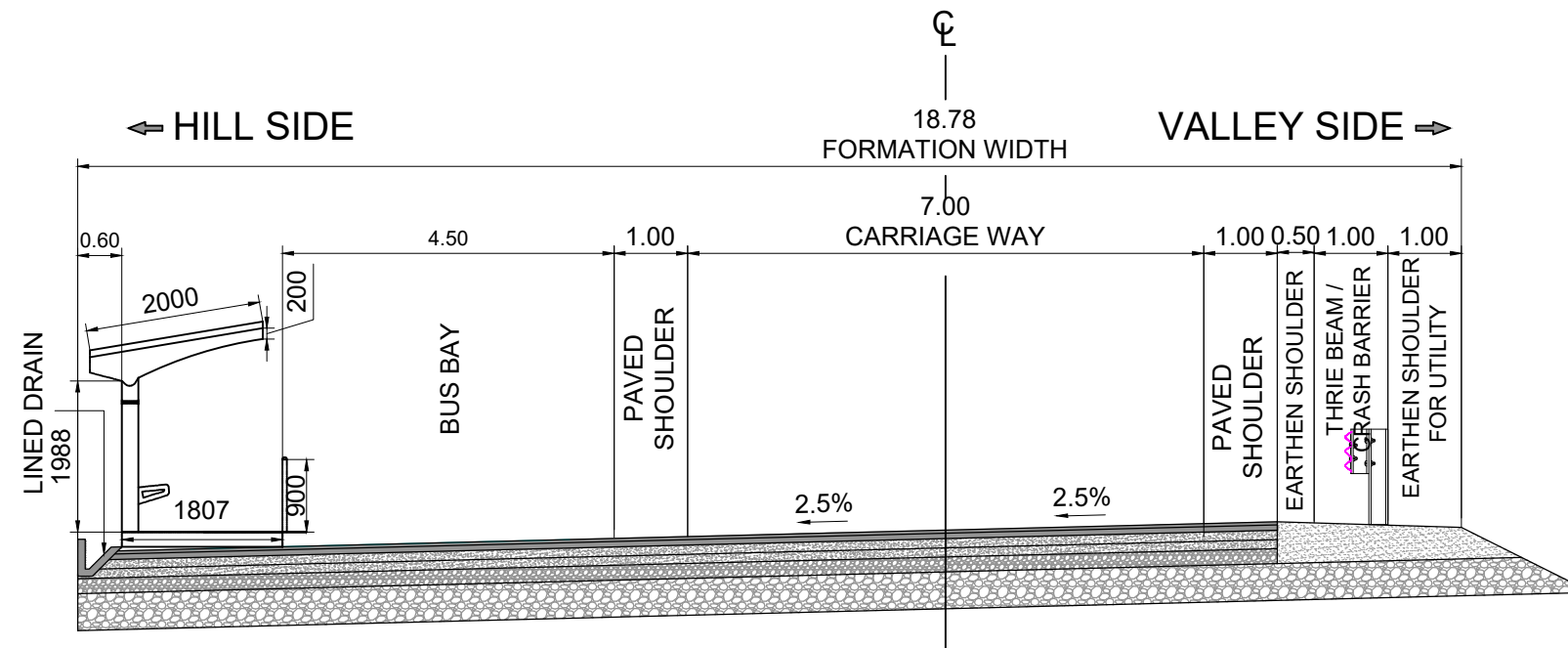
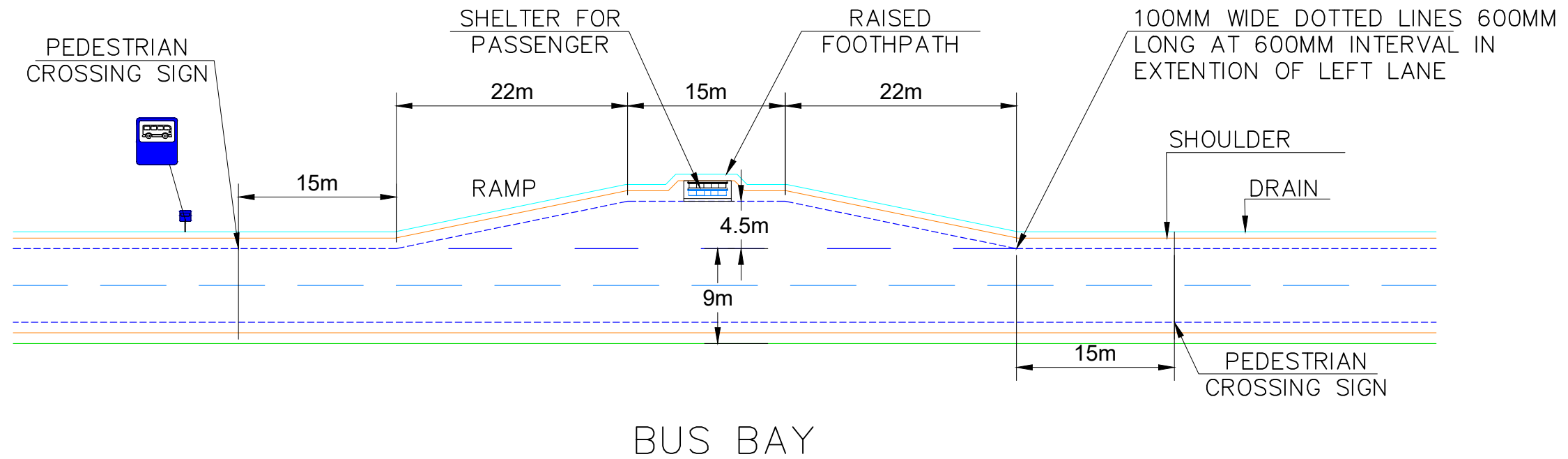


NOTE:

1. HEIGHT OF POSTS SHOULD BE 825mm LONG ABOVE THE FINISHED ROAD LEVEL.
2. SPACING OF POSTS SHOULD BE 2.0m C/C.
3. POST CONSISTS OF FORMED CHANNEL OF SIZE 150 x 75 x 5, 825mm LONG ABOVE GROUND LVL.
4. SPACER CONSISTS OF FORMED CHANNEL OF SIZE 150 x 75 x 5, 502mm LONG.
5. BUTTON HEAD BOLTS M16 x 30mm LONG, 12 Nos FOR THE SPLICING OF THE W PROFILE AT EACH LOCATION.
6. BUTTON HEAD BOLTS M16 x 50mm LONG, 2 Nos AT THE CONNECTION OF THE THRIE BEAM TO SPACER.
7. HEX HEAD BOLTS M20 x 50mm LONG , 2 Nos AT THE CONNECTION OF THE SPACER TO POST.
8. THE BASE MATERIAL OF THE CORRUGATED BEAM SHALL COMPLY TO FOLLOWING MECHANICAL PROPERTIES:-
 - I. TENSILE STRENGTH, MIN=483 MPA.
 - II. ELONGATION, in 2 inches, MIN = 12%
 - III. YIELD, MIN=345 MPA.
9. ALL MEMBERS OF THE SYSTEM SHOULD BE HOT DIPPED GALVANIZED AND TO HAVE A MINIMUM COATING OF 550g/Sq m, EACH FACE IN CONFORMANCE TO M.O.R.T & H. SPECIFICATIONS (CLAUSE 810).



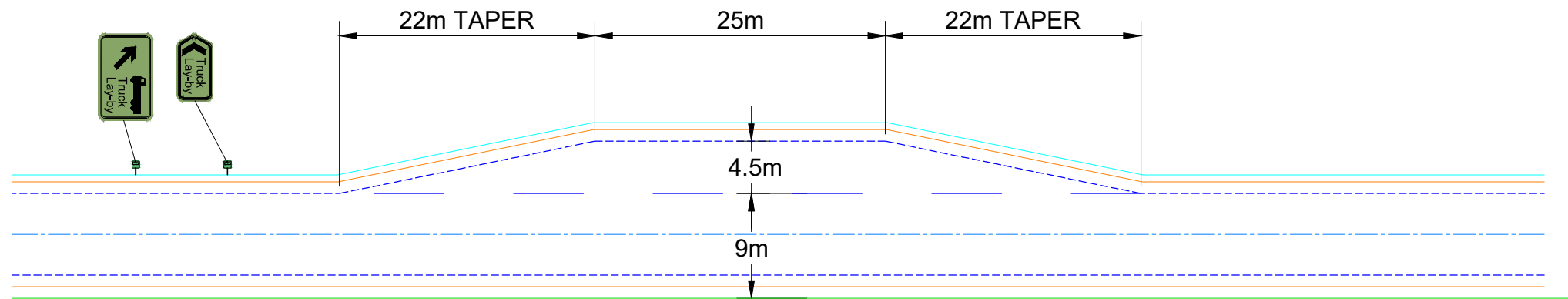
Color Code	Abbreviation	Design Consultant:	Client:	Project :	Design By : RK	Title: Thrie Beam Details	
		 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradaation Of Existing Carriageway into 2L +PS Configuration From Reshi(Km 96.254) . To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim ”.	Drawn By : MK		
					Checked By : AH		
					Approved By : VY	Dwg No: XPL/DSD/SK/KM15.3/TB-02	
					Scale : NTS	Sheet: 02 OF 02	Date : Nov-2024



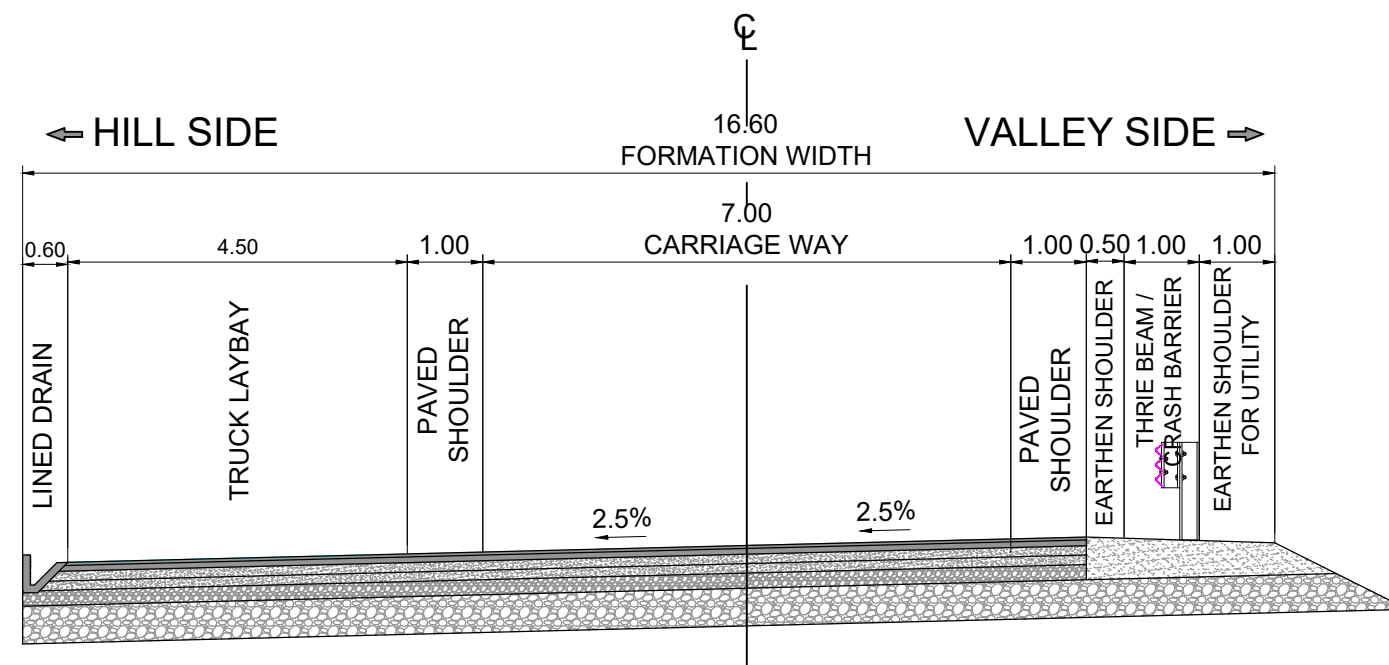
TYPICAL CROSS SECTION
BUS BAY



Rev. No	Date	Revision Details	CLIENT:	DESIGN CONSULTANT:	PROJECT :	DGN BY: RK	TITLE:
			National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor, Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of "Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim".	DRN BY: MK	Bus Bay And Truck Lay-By of Rhenock To Rongli Bazaar, Sikkim (SK) (0+000 To 14+589)
						CHK BY: AH	DWG NO: XPL/DSD/SK/KM15.3/BB/01
						APR BY: VY	SHEET: 01 OF 01
						SCALE: NTS	DATE: Nov-2024



TRUCK LAYBAY



TYPICAL CROSS SECTION
TRUCK LAYBAY



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			 National Highway & Infrastructure Development Corp. Ltd. (NHIDCL) 1st & 2nd Floor,Tower A, World Trade Centre, Nauroji Nagar, New Delhi – 110029	 Xplorer Consultancy Services Pvt. Ltd. in joint venture Dsd Infratech Management Pvt. Ltd, in Association With Maverick Mernok & Construction 511, Tower b, ithum, plot-A40 Sector-62, Noida Uttar Pradesh – 201301	 Consultancy Services For Preparation Of DPR And Providing Services For Pre-Construction Activities in Respect of “Widening And Up-Gradation Of Existing Carriageway into 2L+PS Configuration From Reshi(Km 96.254) .To Rhenock (Km 101.554) Along NH-717A & From Rhenock (Km 0.00) To Rongli Bazaar (Km 15.300) Along NH-717B in the States Of Sikkim”.	DRN BY: MK	Bus Bay And Truck Lay-By of Rhenock To Rongli Bazaar, Sikkim (SK) (0+000 To 14+589)	
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