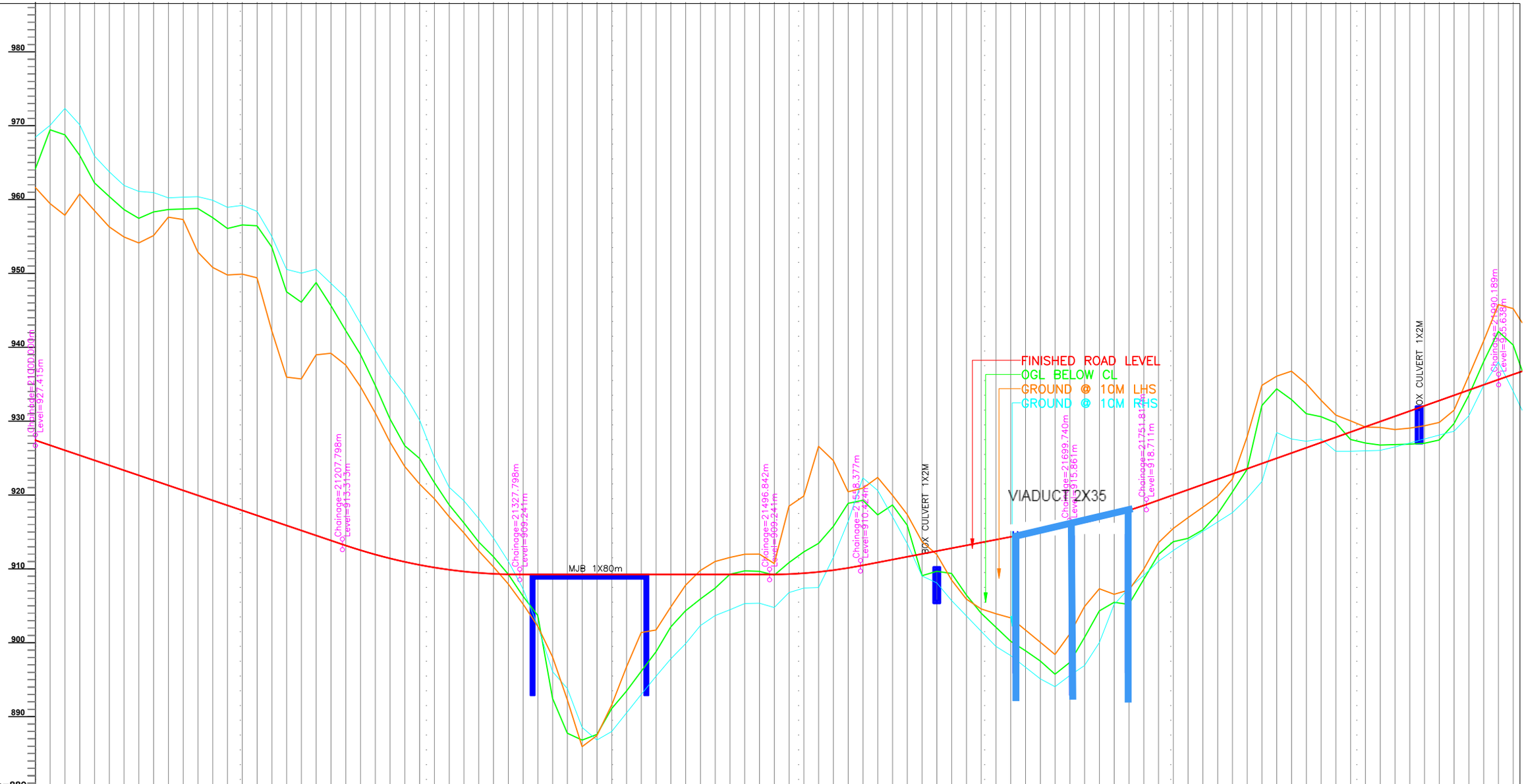
PROFILE LEGEND :

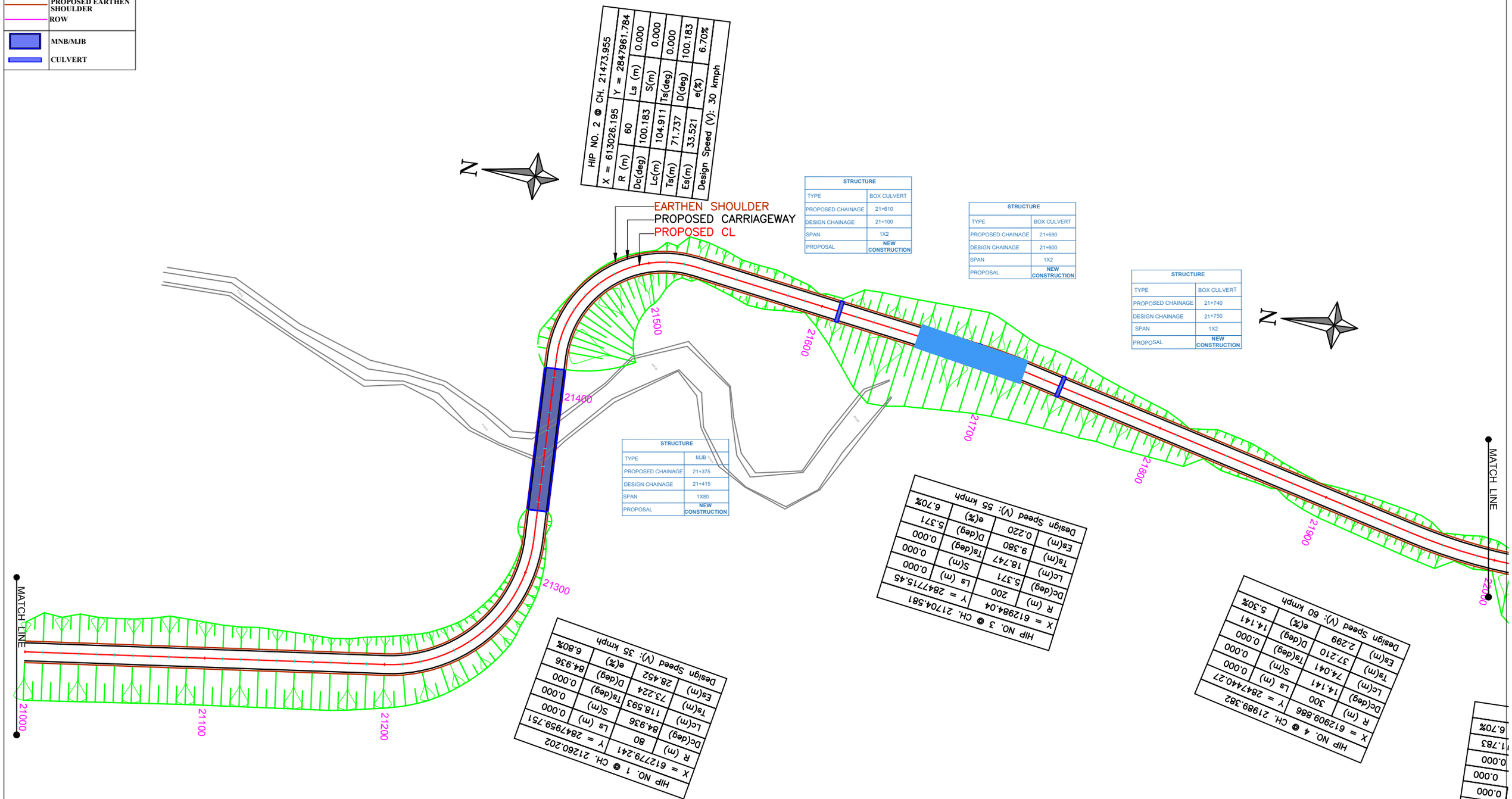
	BOX CULVERT
	PIPE CULVERT
	UNDERPASSES/ MNB/MJB/ FLYOVER



| | | |

PLAN LEGEND:

	PROPOSED CENTER LINE
	PROPOSED ROAD EDGE
	PROPOSED DRAIN
	PROPOSED EARTHEN SHOULDER
	ROW
	MNB/MJB
	CULVERT



HIP NO. 2 @ CH. 21473.955	
X = 613026.195	Y = 2847961.784
R (m)	60
Dc(deg)	100.183
Lc(m)	104.911
Ts(m)	71.737
Es(m)	33.521
Design Speed (V): 30 kmph	
Ls (m)	0.000
S(m)	0.000
Ts(deg)	0.000
D(deg)	100.183
e(%)	6.70%

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	21+610
DESIGN CHAINAGE	21+100
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	21+690
DESIGN CHAINAGE	21+600
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	21+740
DESIGN CHAINAGE	21+750
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	MJB
PROPOSED CHAINAGE	21+375
DESIGN CHAINAGE	21+415
SPAN	1X80
PROPOSAL	NEW CONSTRUCTION

HIP NO. 1 @ CH. 21260.202	
X = 612779.241	Y = 2847959.751
R (m)	80
Dc(deg)	84.936
Lc(m)	118.593
Ts(m)	73.224
Es(m)	28.452
Design Speed (V): 35 kmph	
Ls (m)	0.000
S(m)	0.000
Ts(deg)	0.000
D(deg)	84.936
e(%)	6.80%

HIP NO. 3 @ CH. 21704.561	
X = 612984.04	Y = 2847715.45
R (m)	200
Dc(deg)	5.371
Lc(m)	18.747
Ts(m)	9.380
Es(m)	0.220
Design Speed (V): 55 kmph	
Ls (m)	0.000
S(m)	0.000
Ts(deg)	0.000
D(deg)	5.371
e(%)	6.70%

HIP NO. 4 @ CH. 21989.382	
X = 612909.886	Y = 2847440.27
R (m)	300
Dc(deg)	14.141
Lc(m)	74.041
Ts(m)	37.210
Es(m)	2.299
Design Speed (V): 60 kmph	
Ls (m)	0.000
S(m)	0.000
Ts(deg)	0.000
D(deg)	14.141
e(%)	5.30%

1.494	
47337.91	
0.000	
0.000	
0.000	
1.783	
6.70%	

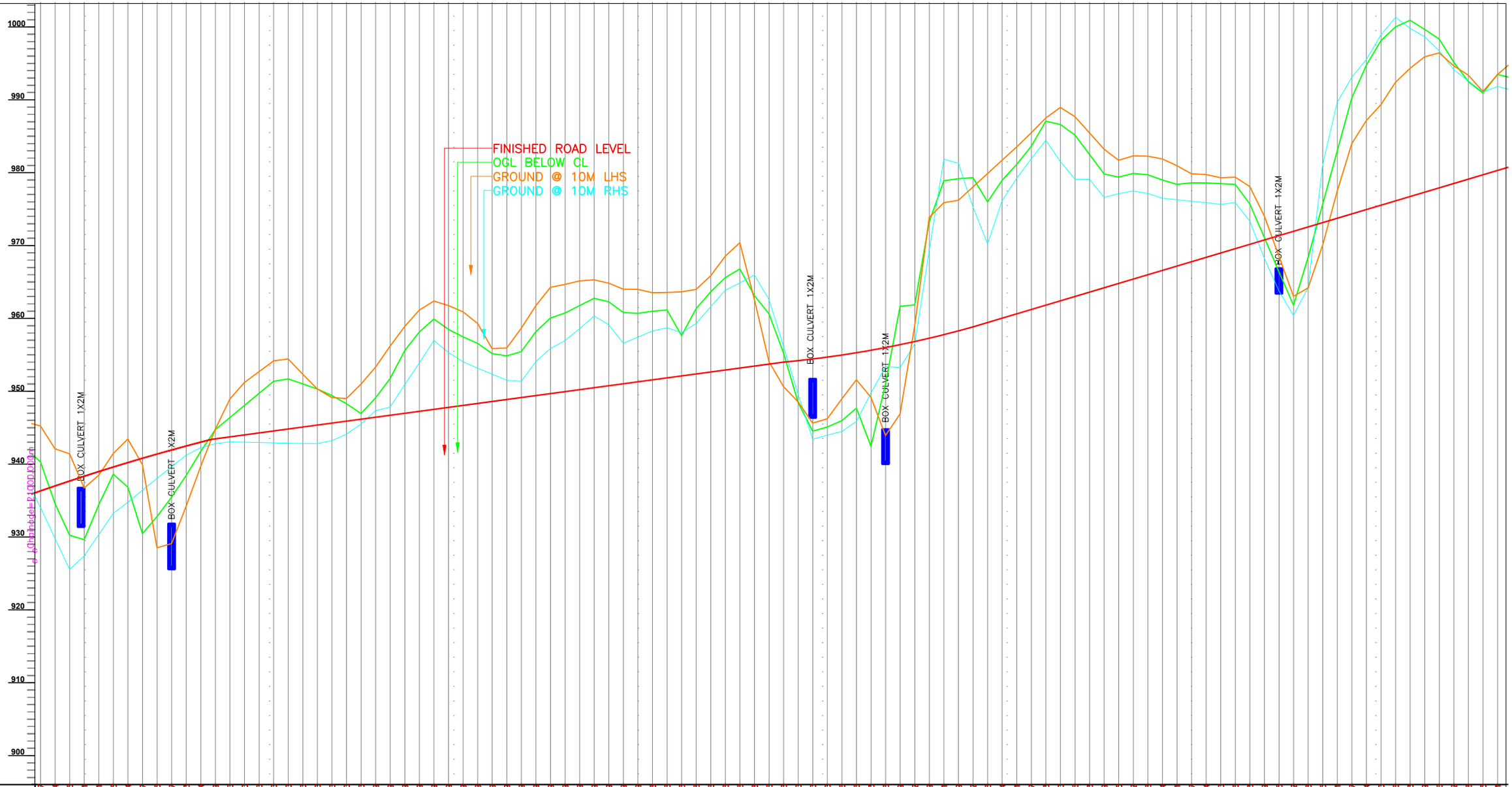
EXTRA WIDENING

Sr. No.	Intersection Point Chainage	Arc Start Chainage	Arc End Chainage	Radius	Extra Widening
1	21+260	21+201	21+319	80	0.9m
2	21+488	21+416	21+560	80	0.9m

PLAN & PROFILE FROM
CHAINAGE 21+000 TO 22+000

PROFILE LEGEND :

	BOX CULVERT
	PIPE CULVERT
	UNDERPASSES/ MNB/MJB/ FLYOVER



CHAINAGE	FINISHED ROAD LEVEL	LEVEL BELOW PROPOSED CL	GROUND @ 10 M LHS	GROUND @ 10 M RHS
22000	936.327	940.313	945.241	934.084
22010	937.014	934.599	942.106	929.822
22020	937.685	930.247	941.423	925.542
22030	938.341	929.630	936.731	927.409
22040	938.981	934.423	938.474	930.335
22050	939.605	938.633	941.468	933.281
22060	940.214	936.836	943.445	934.757
22070	940.807	930.463	939.928	936.438
22080	941.385	932.804	928.522	938.043
22090	941.947	935.469	929.094	939.639
22100	942.493	938.452	934.234	941.231
22110	943.024	941.747	939.710	942.265
22120	943.539	944.736	944.792	942.817
22130	943.740	946.394	948.936	943.067
22140	944.010	948.853	951.208	943.020
22150	944.280	949.711	952.690	942.973
22160	944.550	951.369	954.173	942.926
22170	944.820	951.706	954.440	942.879
22180	945.090	951.017	952.350	942.832
22190	945.360	950.313	950.319	942.829
22200	945.630	949.417	949.139	943.231
22210	945.900	948.205	949.000	944.120
22220	946.170	946.950	950.989	945.492
22230	946.439	949.095	953.318	947.344
22240	946.709	951.756	956.200	947.842
22250	946.979	955.587	958.892	950.908
22260	947.249	958.128	961.132	953.875
22270	947.519	959.912	962.382	956.972
22280	947.789	958.495	961.766	955.330
22290	948.059	957.480	960.905	954.057
22300	948.329	956.679	959.309	953.177
22310	948.599	955.173	955.848	952.353
22320	948.868	954.858	955.947	951.528
22330	949.138	955.447	958.651	951.357
22340	949.408	958.172	961.751	954.082
22350	949.678	960.054	964.268	955.863
22360	949.948	960.739	964.670	956.960
22370	950.218	961.762	965.144	958.583
22380	950.488	962.761	965.296	960.345
22390	950.758	962.291	964.838	959.136
22400	951.028	960.816	964.015	956.595
22410	951.298	960.892	963.989	957.436
22420	951.568	960.985	963.531	958.275
22430	951.838	961.159	963.566	958.734
22440	952.108	957.640	963.648	958.031
22450	952.378	961.349	963.984	959.316
22460	952.648	963.646	965.854	961.592
22470	952.918	965.601	968.538	963.888
22480	953.188	966.790	970.394	964.866
22490	953.458	963.133	962.591	965.985
22500	953.728	960.633	954.083	962.596
22510	953.998	955.256	950.641	956.178
22520	954.268	949.456	948.552	949.579
22530	954.438	944.527	945.635	943.419
22540	954.698	945.099	946.226	943.972
22550	954.968	945.865	948.958	944.488
22560	955.238	955.286	947.682	945.866
22570	955.633	942.453	949.163	951.589
22580	955.998	951.034	943.934	949.767
22590	956.508	963.646	946.898	953.406
22600	956.952	961.865	959.005	953.286
22610	957.285	973.237	969.336	956.462
22620	957.771	978.891	975.884	981.849
22630	958.285	979.179	976.211	981.301
22640	958.842	979.318	978.046	975.323
22650	959.438	976.991	979.881	970.233
22660	960.034	978.952	981.716	976.149
22670	960.631	981.145	983.528	979.222
22680	961.227	983.619	985.480	981.913
22690	961.823	987.073	987.508	984.450
22700	962.420	986.615	988.958	981.534
22710	963.016	985.172	987.689	979.125
22720	963.613	982.498	985.458	979.093
22730	964.209	979.824	983.228	976.611
22740	964.805	979.394	981.703	977.135
22750	965.402	979.901	982.311	977.491
22760	965.998	979.713	982.266	977.159
22770	966.594	979.003	981.885	976.509
22780	967.191	978.409	980.958	976.284
22790	967.787	978.611	979.849	976.077
22800	968.384	978.600	979.742	975.894
22810	968.980	978.498	979.313	975.656
22820	969.576	978.392	979.387	975.894
22830	970.173	976.714	978.103	973.356
22840	970.769	971.106	974.040	968.250
22850	971.365	966.404	968.535	963.769
22860	971.962	961.821	963.029	960.398
22870	972.558	958.375	964.187	964.245
22880	973.155	975.670	970.050	981.098
22890	973.751	982.965	977.468	989.646
22900	974.347	990.261	983.990	993.105
22910	974.944	994.746	987.164	995.539
22920	975.540	998.127	989.336	998.910
22930	976.136	1000.014	992.411	1001.339
22940	976.733	1000.924	994.319	999.813
22950	977.329	999.668	995.905	998.649
22960	977.926	998.346	996.738	996.738
22970	978.522	995.166	994.124	994.664
22980	979.118	992.503	992.598	993.384
22990	979.715	990.928	991.075	991.144
23000	980.311	993.482	991.829	993.464

HORIZONTAL

000m
42m | L=44.525m | R=200.000m L=41.132m | L=73.646m | R=-200.000m L=110.271m | L=207.023m | R=300.000m L=51.605m | L=112.881m | R=-60.000m L=41.661m | L | R=50.000m L=68.731m | L=132.382m | R=300.000m L=55.424m

VERTICAL

L=145.580m R=-6399.999m | G=4.826 L=400.417m | R L | G=7.803 L=71.380m | L=100.000m R=-2043.133m | G=2.908 L=79.456m | R L | G=5.596 L=129.663m

SUPER ELEVATION

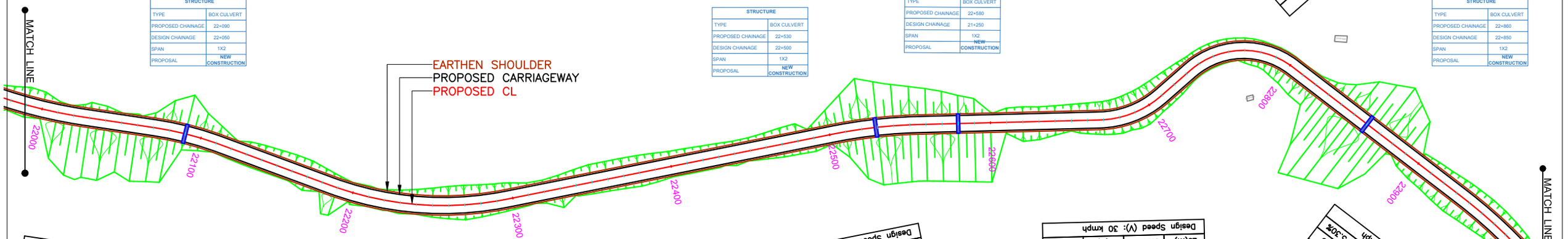
Q=6.700 | Q=6.700 | Q=5.300 | Q=6.700 | Q=5.600 | Q=5.300

0 | Q=6.700 | Q=6.700 | Q=5.300 | Q=6.700 | Q=5.600 | Q=5.300

PLAN & PROFILE FROM
CHAINAGE 22+000 TO 23+000

PLAN LEGEND:

	PROPOSED CENTER LINE
	PROPOSED ROAD EDGE
	PROPOSED DRAIN
	PROPOSED EARTHEN SHOULDER
	ROW
	MNB/MJB
	CULVERT



STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	22+090
DESIGN CHAINAGE	22+050
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	22+530
DESIGN CHAINAGE	22+500
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	22+580
DESIGN CHAINAGE	21+250
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	22+860
DESIGN CHAINAGE	22+850
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

HIP NO. 9 @ CH. 22767.617			
X = 613059.055	Y = 2846701.145		
R (m)	50	Ls (m)	0.000
Dc(deg)	78.760	Ts(deg)	0.000
Lc(m)	68.731	S(m)	0.000
Ts(m)	41.041	D(deg)	78.760
Es(m)	14.687	e(%)	5.60%
Design Speed (V): 25 kmph			

HIP NO. 10 @ CH. 22962.076			
X = 612953.551	Y = 2846526.829		
R (m)	300	Ls (m)	0.000
Dc(deg)	10.585	Ts(deg)	0.000
Lc(m)	55.425	S(m)	0.000
Ts(m)	27.792	D(deg)	10.585
Es(m)	1.285	e(%)	5.30%
Design Speed (V): 60 kmph			

HIP NO. 8 @ CH. 22688.316			
X = 612993.71	Y = 2846758.363		
R (m)	60	Ls (m)	0.000
Dc(deg)	39.783	S(m)	0.000
Lc(m)	41.661	Ts(deg)	0.000
Ts(m)	21.710	D(deg)	39.783
Es(m)	3.807	e(%)	6.70%
Design Speed (V): 30 kmph			

HIP NO. 7 @ CH. 22528.802			
X = 612968.58	Y = 2846916.84		
R (m)	300	Ls (m)	0.000
Dc(deg)	9.856	S(m)	0.000
Lc(m)	51.605	Ts(deg)	0.000
Ts(m)	25.866	D(deg)	9.856
Es(m)	1.113	e(%)	5.30%
Design Speed (V): 60 kmph			

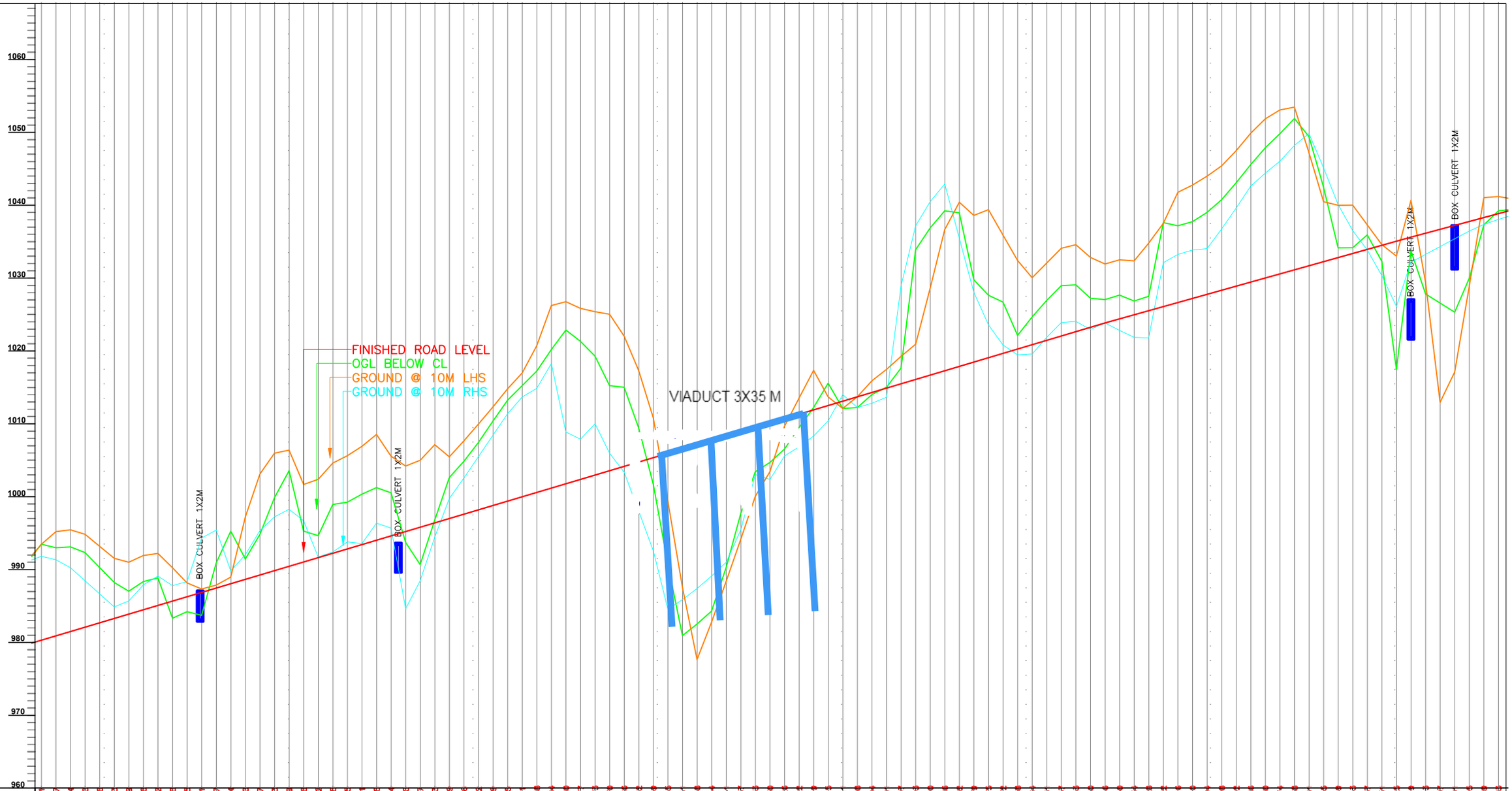
HIP NO. 6 @ CH. 22240.841			
X = 612874.978	Y = 2847190.754		
R (m)	200	Ls (m)	0.000
Dc(deg)	31.590	S(m)	0.000
Lc(m)	110.271	Ts(deg)	0.000
Ts(m)	56.576	D(deg)	31.590
Es(m)	7.848	e(%)	6.70%
Design Speed (V): 55 kmph			

HIP NO. 5 @ CH. 22091.494			
X = 612908.205	Y = 2847337.91		
R (m)	200	Ls (m)	0.000
Dc(deg)	11.783	S(m)	0.000
Lc(m)	41.131	Ts(deg)	0.000
Ts(m)	20.638	D(deg)	11.783
Es(m)	1.062	e(%)	6.70%
Design Speed (V): 55 kmph			

PLAN & PROFILE FROM
CHAINAGE 22+000 TO 23+000

PROFILE LEGEND :

	BOX CULVERT
	PIPE CULVERT
	UNDERPASSES/ MNB/MJB/ FLYOVER



CHAINAGE	FINISHED ROAD LEVEL	LEVEL BELOW PROPOSED CL	GROUND @ 10 M LHS	GROUND @ 10 M RHS
23000	980.311	993.462	993.464	991.829
23010	980.907	992.996	995.208	991.354
23020	981.504	993.113	995.453	990.250
23030	982.106	992.328	994.837	988.456
23040	982.696	990.280	993.192	986.667
23050	983.293	988.232	991.547	984.878
23060	983.889	987.030	991.008	985.688
23070	984.486	988.355	991.930	987.897
23080	985.082	988.854	992.217	989.107
23090	985.678	989.325	990.255	987.794
23100	986.275	988.224	988.168	988.358
23110	986.871	986.719	987.338	994.330
23120	987.467	990.811	987.866	995.414
23130	988.064	995.270	988.964	989.817
23140	988.660	991.450	997.229	992.044
23150	989.257	994.837	993.115	995.345
23160	989.853	999.862	995.973	997.231
23170	990.449	993.561	1006.398	998.274
23180	991.046	995.276	1001.684	996.698
23190	991.642	994.650	1002.383	991.735
23200	992.238	998.933	1004.612	992.408
23210	992.835	999.247	1005.625	993.795
23220	993.431	1000.343	1006.911	993.571
23230	994.028	1001.241	1008.546	996.371
23240	994.624	1000.531	1005.554	995.696
23250	995.220	993.722	1004.214	994.623
23260	995.817	990.689	994.998	988.457
23270	996.413	996.804	1007.143	994.467
23280	997.006	1002.631	1005.466	999.747
23290	997.606	1004.864	1007.674	1002.568
23300	998.202	1007.461	1009.977	1005.510
23310	998.799	1010.391	1012.334	1008.453
23320	999.395	1013.246	1014.808	1011.395
23330	999.991	1015.240	1016.988	1013.679
23340	1000.588	1017.234	1020.724	1014.865
23350	1001.184	1020.188	1026.234	1018.271
23360	1001.780	1022.974	1026.763	1008.882
23370	1002.377	1021.316	1025.844	1007.889
23380	1002.973	1019.281	1025.386	1010.009
23390	1003.570	1015.244	1025.034	1005.964
23400	1004.166	1015.014	1022.022	1003.346
23410	1004.762	1009.411	1017.294	1009.022
23420	1005.359	1001.684	1010.794	992.564
23430	1005.955	1000.343	999.358	984.546
23440	1006.551	1002.241	987.559	985.879
23450	1007.148	1000.531	977.651	987.401
23460	1007.744	993.722	982.526	989.110
23470	1008.341	990.689	982.794	991.004
23480	1008.937	997.682	988.389	994.144
23490	1009.533	1003.428	990.302	995.420
23500	1010.130	1000.744	1000.043	1003.039
23510	1010.726	993.653	993.437	997.071
23520	1011.322	1002.934	993.713	995.501
23530	1011.919	1012.244	1017.337	998.072
23540	1012.515	1011.910	1013.694	1010.400
23550	1013.111	1012.111	1010.428	1014.009
23560	1013.708	1013.965	1010.988	1010.948
23570	1014.304	1013.526	1011.543	1011.509
23580	1014.901	1014.085	1013.421	1012.071
23590	1015.497	1015.919	1015.985	1028.895
23600	1016.093	1033.885	1019.281	1037.164
23610	1016.690	1036.875	1028.606	1040.474
23620	1017.286	1039.225	1036.651	1042.911
23630	1017.882	1038.964	1040.414	1035.480
23640	1018.479	1029.764	1038.601	1028.049
23650	1019.075	1027.641	1039.388	1023.588
23660	1019.672	1026.714	1035.904	1020.819
23670	1020.268	1022.135	1032.424	1019.463
23680	1020.864	1024.677	1030.041	1019.579
23690	1021.461	1026.935	1032.065	1021.866
23700	1022.057	1028.954	1034.096	1023.891
23710	1022.653	1029.075	1034.585	1024.055
23720	1023.250	1027.241	1032.831	1022.950
23730	1023.846	1027.051	1031.931	1023.853
23740	1024.440	1027.661	1032.504	1022.820
23750	1025.031	1026.854	1032.366	1021.873
23760	1025.628	1027.504	1034.791	1021.779
23770	1026.222	1037.811	1037.515	1032.119
23780	1026.816	1037.181	1041.773	1033.246
23790	1027.410	1037.735	1042.766	1033.842
23800	1028.001	1039.005	1043.981	1034.038
23810	1028.598	1040.744	1045.391	1036.725
23820	1029.192	1043.071	1047.476	1039.610
23830	1029.786	1045.571	1049.874	1042.622
23840	1030.380	1047.874	1051.854	1044.397
23850	1030.974	1049.806	1053.074	1046.035
23860	1031.568	1051.894	1053.461	1048.204
23870	1032.161	1049.411	1047.204	1049.830
23880	1032.755	1042.454	1040.483	1045.128
23890	1033.349	1034.144	1039.993	1040.097
23900	1033.943	1034.164	1040.011	1036.513
23910	1034.537	1035.034	1033.864	1037.303
23920	1035.13	1032.291	1034.591	1030.339
23930	1035.725	1017.477	1033.011	1026.106
23940	1036.319	1033.731	1040.671	1032.178
23950	1036.913	1036.821	1029.404	1033.252
23960	1037.507	1026.571	1034.325	1012.955
23970	1038.101	1025.314	1035.398	1017.111
23980	1038.695	1029.987	1028.884	1036.449
23990	1039.289	1037.362	1037.370	1041.041
24000	1039.883	1039.221	1038.053	1041.196

HORIZONTAL

L=67.523m | R=-180.000m L=187.380m | L=146.355m | R=250.000m L=149.698m | L=198.071m | R=-250.000m L=152.049m | L=148.199m

VERTICAL

R=14848.604m L=100.000m | G=6.269 L=537.575m | L=120.000m R=-3570.889m | G=2.909 L=143.211m | R L | G L=

SUPER ELEVATION

Q=6.200 | Q=6.400 | Q=6.400

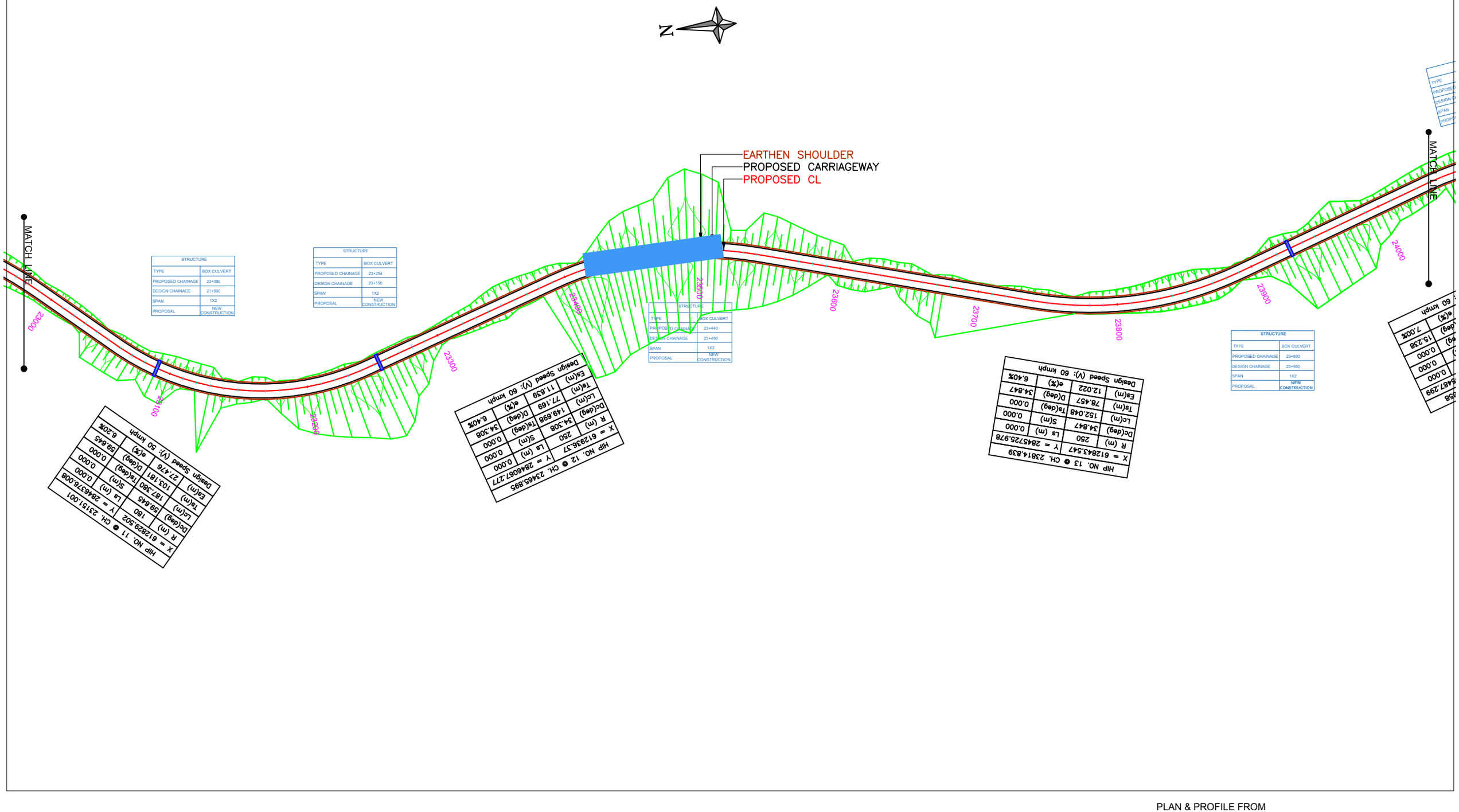
Q=6.200 | Q=6.400 | Q=6.400

CHAINAGE

PLAN & PROFILE FROM
CHAINAGE 23+000 TO 24+000

PLAN LEGEND:

	PROPOSED CENTER LINE
	PROPOSED ROAD EDGE
	PROPOSED DRAIN
	PROPOSED EARTHEN SHOULDER
	ROW
	MNB/MJB
	CULVERT



STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	23+090
DESIGN CHAINAGE	21+900
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	23+254
DESIGN CHAINAGE	23+150
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	23+440
DESIGN CHAINAGE	23+450
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	23+930
DESIGN CHAINAGE	23+950
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

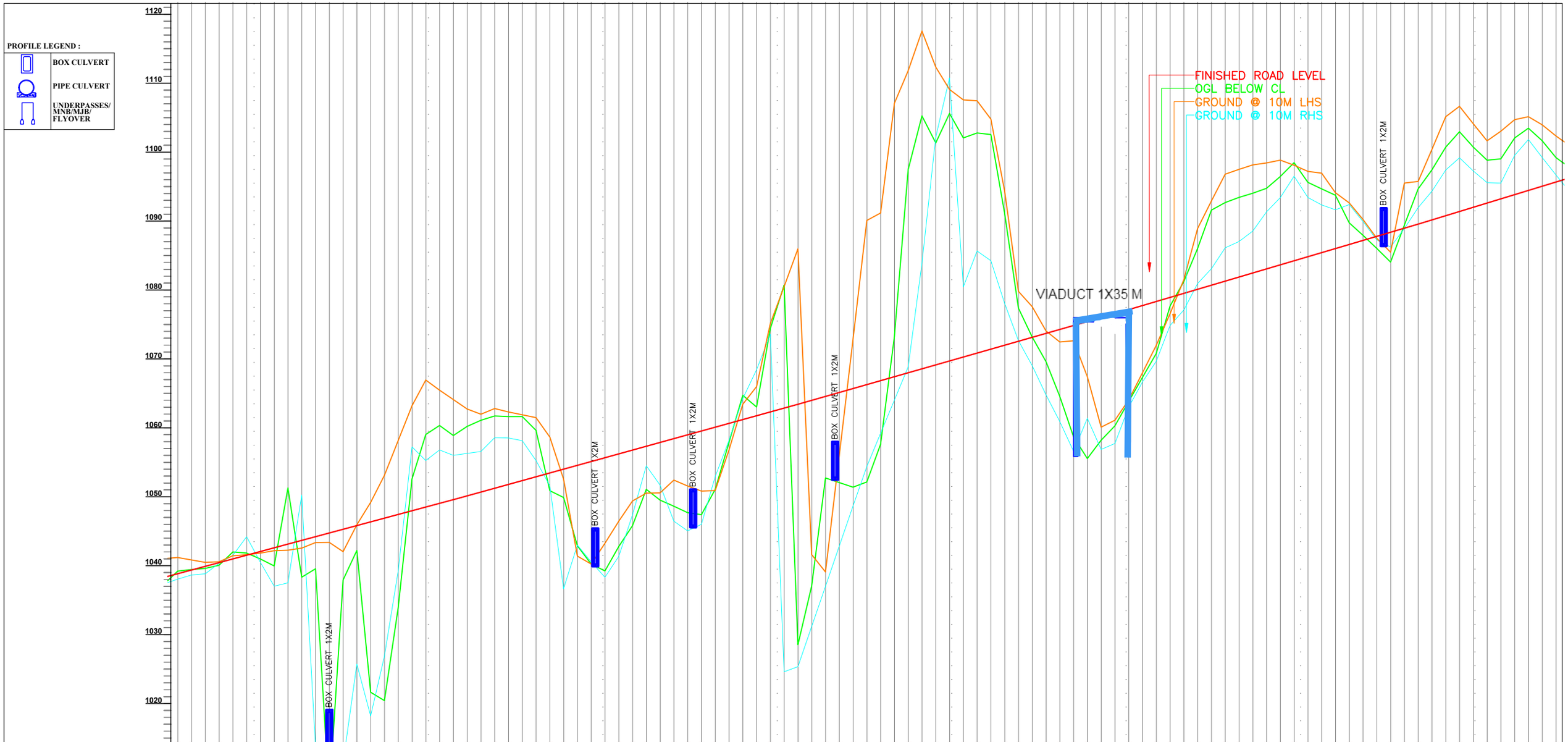
HIP NO. 11 @ CH. 23151.001			
X = 612829.502		Y = 2846576.008	
R (m)	180	Ls (m)	0.000
Dc(deg)	59.645	S(m)	0.000
Lc(m)	187.380	Ts(deg)	0.000
Ts(m)	103.181	D(deg)	59.645
Es(m)	27.476	e(%)	6.20%
Design Speed (V): 50 kmph			

HIP NO. 12 @ CH. 23465.895			
X = 612936.37		Y = 2846067.277	
R (m)	250	Ls (m)	0.000
Dc(deg)	34.308	S(m)	0.000
Lc(m)	149.698	Ts(deg)	0.000
Ts(m)	77.169	D(deg)	34.308
Es(m)	11.639	e(%)	6.40%
Design Speed (V): 60 kmph			

HIP NO. 13 @ CH. 23814.839			
X = 612843.547		Y = 2845725.978	
R (m)	250	Ls (m)	0.000
Dc(deg)	34.847	S(m)	0.000
Lc(m)	152.048	Ts(deg)	0.000
Ts(m)	78.457	D(deg)	34.847
Es(m)	12.022	e(%)	6.40%
Design Speed (V): 60 kmph			

HIP NO. 14 @ CH. 24487.299			
X = 612958		Y = 2845658	
R (m)	250	Ls (m)	0.000
Dc(deg)	0.000	S(m)	0.000
Lc(m)	0.000	Ts(deg)	0.000
Ts(m)	0.000	D(deg)	15.258
Es(m)	0.000	e(%)	7.00%
Design Speed (V): 60 kmph			

PLAN & PROFILE FROM
CHAINAGE 23+000 TO 24+000


PROFILE LEGEND :
BOX CULVERT
PIPE CULVERT
UNDERPASSES/ MNB/MJB/ FLYOVER
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030
1020
FINISHED ROAD LEVEL
OGL BELOW CL
GROUND @ 10M LHS
GROUND @ 10M RHS
VIADUCT 1X35 M
BOX CULVERT 1X2M
BOX CULVERT 1X2M
BOX CULVERT 1X2M
BOX CULVERT 1X2M
BOX CULVERT 1X2M

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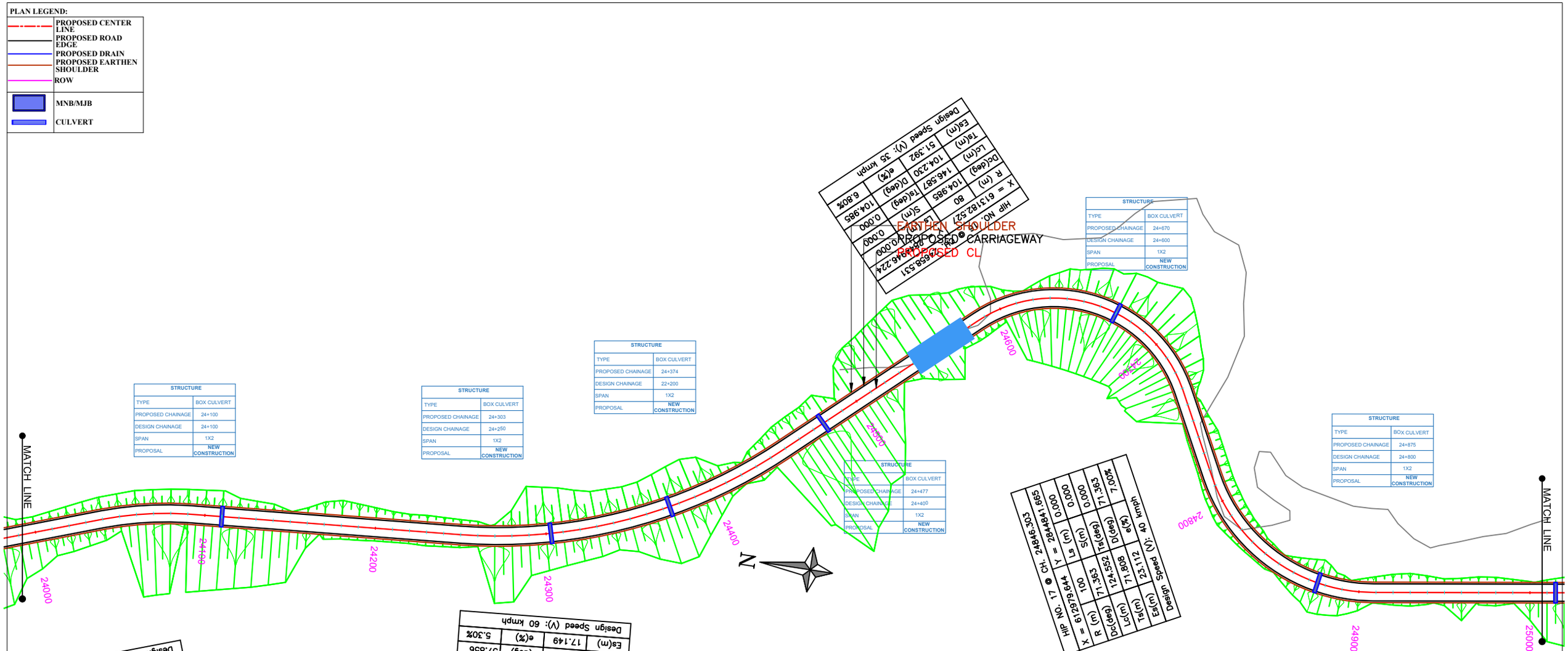
PLAN LEGEND:

	PROPOSED CENTER LINE
	PROPOSED ROAD EDGE
	PROPOSED DRAIN
	PROPOSED EARTHEN SHOULDER
	ROW
	MNB/MJB
	CULVERT



STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	24+100
DESIGN CHAINAGE	24+100
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	24+303
DESIGN CHAINAGE	24+250
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	24+374
DESIGN CHAINAGE	22+200
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	24+477
DESIGN CHAINAGE	24+400
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	24+670
DESIGN CHAINAGE	24+600
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	24+875
DESIGN CHAINAGE	24+800
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

HIP NO. 14 @ CH. 24065.658			
X = 612928.688		Y = 2845487.299	
R (m)	200	Ls (m)	0.000
Dc(deg)	15.238	S(m)	0.000
Lc(m)	53.190	Ts(deg)	0.000
Ts(m)	26.753	D(deg)	15.238
Es(m)	1.781	e(%)	7.00%
Design Speed (V): 60 kmph			

HIP NO. 15 @ CH. 24348.377			
X = 612950.652		Y = 2845201.495	
R (m)	300	Ls (m)	0.000
Dc(deg)	37.856	S(m)	0.000
Lc(m)	198.213	Ts(deg)	0.000
Ts(m)	102.876	D(deg)	37.856
Es(m)	17.149	e(%)	5.30%
Design Speed (V): 60 kmph			

HIP NO. 17 @ CH. 24846.305			
X = 612976.944		Y = 2844841.665	
R (m)	100	Ls (m)	0.000
Dc(deg)	71.363	S(m)	0.000
Lc(m)	124.552	Ts(deg)	36.371
Ts(m)	71.808	D(deg)	71.363
Es(m)	23.112	e(%)	7.00%
Design Speed (V): 40 kmph			

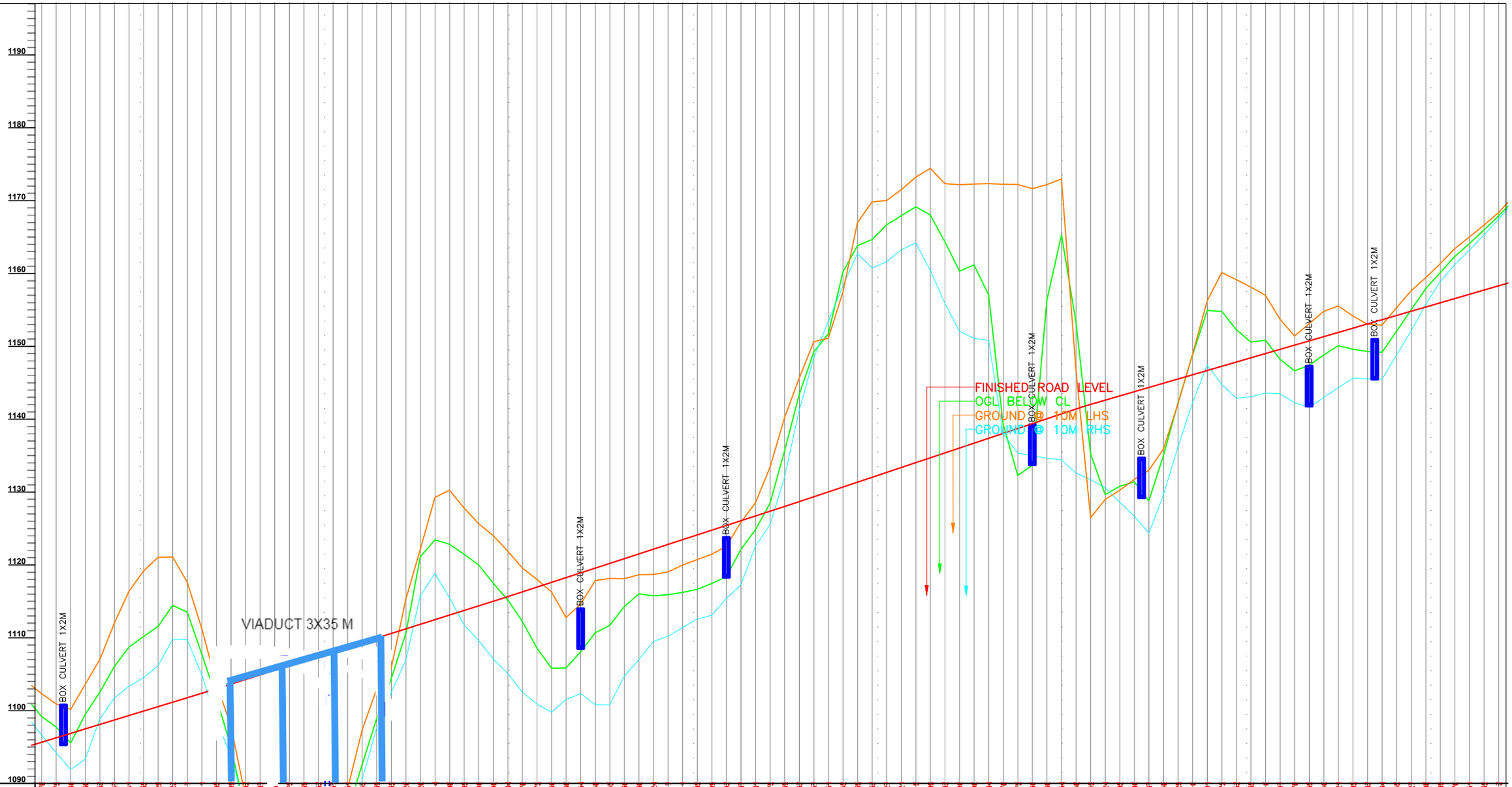
HIP NO. 18 @ CH. 24946.224			
X = 613182.527		Y = 2844656.531	
R (m)	80	Ls (m)	0.000
Dc(deg)	104.985	S(m)	0.000
Lc(m)	146.587	Ts(deg)	104.985
Ts(m)	104.230	D(deg)	6.80%
Es(m)	51.392	e(%)	
Design Speed (V): 35 kmph			

512126.76			
2844553.506			
(m)	0.000		
(m)	0.000		
(deg)	0.000		
(deg)	25.327		
(%)	4.00%		
mph			

PLAN & PROFILE FROM
CHAINAGE 24+000 TO 25+000

PROFILE LEGEND :

	BOX CULVERT
	PIPE CULVERT
	UNDERPASSES/ MNB/MJB/ FLYOVER

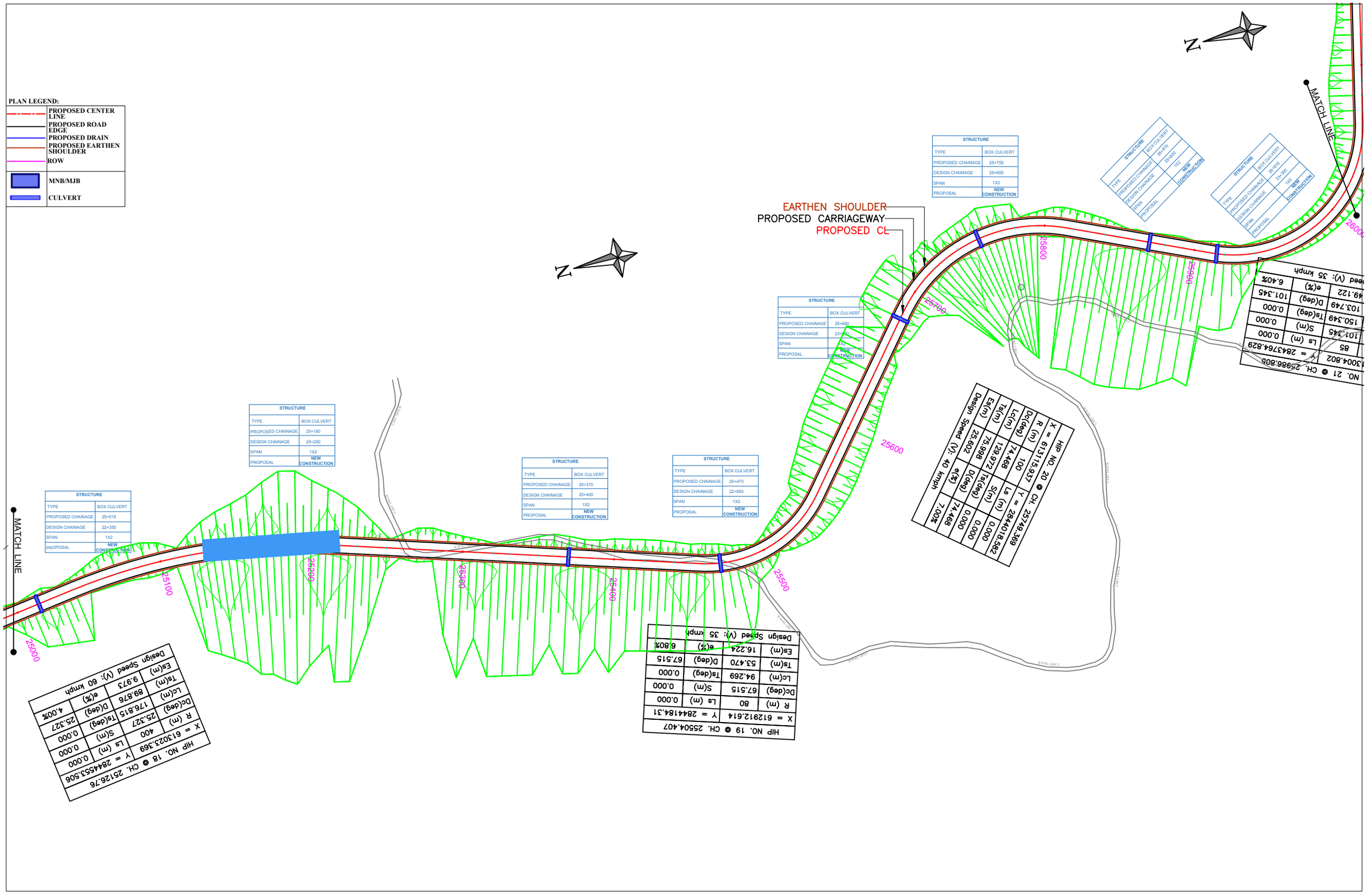


FINISHED ROAD LEVEL	1099.27, 1099.21, 1099.87, 1099.76, 1100.46, 1101.65, 1102.24, 1102.84, 1103.43, 1104.02, 1104.62, 1105.21, 1105.81, 1106.40, 1106.99, 1107.58, 1108.18, 1108.76, 1109.37, 1109.96, 1110.56, 1111.15, 1111.75, 1112.34, 1112.93, 1113.53, 1114.12, 1114.72, 1115.31, 1115.90, 1116.50, 1117.09, 1117.69, 1118.28, 1118.87, 1119.47, 1120.06, 1120.66, 1121.25, 1121.84, 1122.44, 1123.03, 1123.63, 1124.22, 1124.81, 1125.41, 1126.00, 1126.59, 1127.18, 1127.78, 1128.38, 1128.97, 1129.56, 1130.16, 1130.75, 1131.35, 1131.94, 1132.53, 1133.13, 1133.72, 1134.32, 1134.91, 1135.50, 1136.10, 1136.69, 1137.29, 1137.88, 1138.47, 1139.07, 1139.66, 1140.26, 1140.85, 1141.44, 1142.04, 1142.62, 1143.20, 1143.78, 1144.36, 1144.94, 1145.52, 1146.11, 1146.69, 1147.27, 1147.85, 1148.43, 1149.01, 1149.59, 1150.17, 1150.75, 1151.34, 1151.92, 1152.50, 1153.08, 1153.66, 1154.24, 1154.82, 1155.40, 1155.98, 1156.57, 1157.15, 1157.73, 1158.31
LEVEL BELOW PROPOSED CL	1099.354, 1099.214, 1099.938, 1097.764, 1100.182, 1099.494, 1103.63, 1101.06, 1107.03, 1102.54, 1112.03, 1106.07, 1116.38, 1108.72, 1121.05, 1111.57, 1126.18, 1114.45, 1131.09, 1117.63, 1113.53, 1111.28, 1107.77, 1105.81, 1098.65, 1106.40, 1103.73, 1101.78, 1097.91, 1095.03, 1093.80, 1086.33, 1088.14, 1085.89, 1080.11, 1076.79, 1073.19, 1071.19, 1068.78, 1067.27, 1071.94, 1069.62, 1065.79, 1068.33, 1067.63, 1072.49, 1070.69, 1075.51, 1081.20, 1078.33, 1083.15, 1089.20, 1086.07, 1090.50, 1097.32, 1092.59, 1097.65, 1102.94, 1098.92, 1102.47, 1105.85, 1104.39, 1106.95, 1115.28, 1110.59, 1115.80, 1122.18, 1121.14, 1118.84, 1129.27, 1123.46, 1130.27, 1122.84, 1127.82, 1121.47, 1125.65, 1120.60, 1124.04, 1117.50, 1121.90, 1116.21, 1118.28, 1105.11, 1121.59, 1112.25, 1102.55, 1119.59, 1112.25, 1100.92, 1118.02, 1108.58, 1099.80, 1116.30, 1105.84, 1101.54, 1112.78, 1105.86, 1102.35, 1114.61, 1108.10, 1100.83, 1117.85, 1110.69, 1100.81, 1118.16, 1111.73, 1104.77, 1118.12, 1114.29, 1107.01, 1118.66, 1116.04, 1109.51, 1118.70, 1115.77, 1110.23, 1119.05, 1115.92, 1111.41, 1119.99, 1116.24, 1112.57, 1120.75, 1116.66, 1113.09, 1121.47, 1117.46, 1115.42, 1122.56, 1118.38, 1117.28, 1125.86, 1122.14, 1122.59, 1128.54, 1124.85, 1125.55, 1133.44, 1128.48, 1132.04, 1140.24, 1135.68, 1141.26, 1150.64, 1149.22, 1148.39, 1153.45, 1151.11, 1151.72, 1157.47, 1160.21, 1166.99, 1163.81, 1169.83, 1164.66, 1170.02, 1166.68, 1161.62, 1163.25, 1169.15, 1173.23, 1169.15, 1164.44, 1168.03, 1172.33, 1164.35, 1172.19, 1160.33, 1172.28, 1161.18, 1172.34, 1157.07, 1172.25, 1139.32, 1135.35, 1132.25, 1139.07, 1171.65, 1133.68, 1172.20, 1156.32, 1172.98, 1165.32, 1132.60, 1146.68, 1153.28, 1126.48, 1135.23, 1131.73, 1128.99, 1129.65, 1130.58, 1130.80, 1128.61, 1130.25, 1131.40, 1126.70, 1131.75, 1131.40, 1124.37, 1133.01, 1128.81, 1129.66, 1135.93, 1135.02, 1136.25, 1142.14, 1142.24, 1142.31, 1148.94, 1148.84, 1147.46, 1156.24, 1154.92, 1160.13, 1154.81, 1159.16, 1152.29, 1142.90, 1139.07, 1143.08, 1150.60, 1148.43, 1157.02, 1150.85, 1153.73, 1148.22, 1151.42, 1147.40, 1153.12, 1150.75, 1154.80, 1148.82, 1155.58, 1150.05, 1145.63, 1154.17, 1149.60, 1145.55, 1153.04, 1149.30, 1145.49, 1152.91, 1149.19, 1155.32, 1152.08, 1157.64, 1155.01, 1159.42, 1157.93, 1158.89, 1161.37, 1160.13, 1163.44, 1162.35, 1165.01, 1164.11, 1166.65, 1165.97, 1168.37, 1167.92
GROUND @ 10 M LHS	1102.354, 1100.938, 1100.182, 1103.63, 1107.03, 1112.03, 1116.38, 1121.05, 1126.18, 1131.09, 1117.63, 1111.28, 1098.65, 1103.73, 1097.91, 1093.80, 1088.14, 1080.11, 1073.19, 1068.78, 1067.27, 1071.94, 1065.79, 1067.63, 1072.49, 1075.51, 1081.20, 1083.15, 1089.20, 1090.50, 1097.32, 1097.65, 1102.47, 1105.85, 1106.95, 1115.28, 1115.80, 1122.18, 1118.84, 1115.52, 1111.76, 1109.62, 1107.12, 1105.11, 1102.55, 1100.92, 1102.47, 1102.98, 1106.07, 1111.75, 1112.34, 1113.53, 1114.12, 1114.72, 1115.31, 1115.90, 1116.50, 1117.09, 1117.69, 1118.28, 1118.87, 1119.47, 1120.06, 1120.66, 1121.25, 1121.84, 1122.44, 1123.03, 1123.63, 1124.22, 1124.81, 1125.41, 1126.00, 1126.59, 1127.18, 1127.78, 1128.38, 1128.97, 1129.56, 1130.16, 1130.75, 1131.35, 1131.94, 1132.53, 1133.13, 1133.72, 1134.32, 1134.91, 1135.50, 1136.10, 1136.69, 1137.29, 1137.88, 1138.47, 1139.07, 1139.66, 1140.26, 1140.85, 1141.44, 1142.04, 1142.62, 1143.20, 1143.78, 1144.36, 1144.94, 1145.52, 1146.11, 1146.69, 1147.27, 1147.85, 1148.43, 1149.01, 1149.59, 1150.17, 1150.75, 1151.34, 1151.92, 1152.50, 1153.08, 1153.66, 1154.24, 1154.82, 1155.40, 1155.98, 1156.57, 1157.15, 1157.73, 1158.31
GROUND @ 10 M RHS	1096.697, 1094.228, 1091.915, 1093.361, 1098.832, 1101.760, 1103.367, 1104.549, 1106.182, 1108.819, 1109.741, 1104.924, 1098.652, 1093.800, 1086.333, 1076.387, 1068.785, 1067.278, 1065.792, 1067.915, 1075.515, 1083.152, 1090.508, 1097.651, 1102.474, 1106.951, 1115.808, 1118.844, 1115.525, 1111.768, 1109.629, 1107.125, 1105.110, 1102.550, 1100.923, 1099.808, 1101.541, 1102.354, 1100.813, 1100.814, 1104.771, 1107.012, 1109.512, 1110.230, 1111.417, 1153.452, 1158.294, 1162.725, 1160.773, 1161.627, 1163.256, 1164.178, 1160.437, 1155.918, 1152.088, 1151.117, 1150.818, 1137.964, 1135.351, 1135.002, 1134.659, 1134.439, 1132.601, 1131.733, 1130.589, 1128.618, 1126.708, 1124.375, 1129.664, 1136.251, 1142.312, 1147.461, 1144.786, 1142.907, 1143.084, 1143.594, 1143.493, 1142.285, 1141.629, 1142.987, 1144.344, 1145.632, 1145.559, 1145.498, 1148.833, 1152.116, 1155.780, 1159.428, 1161.374, 1158.896, 1161.247, 1163.213, 1166.298, 1167.472
HORIZONTAL	R=400.000m L=176.815m; L=242.105m; R=-80.000m L=94.269m; L=132.842m; R=100.000m L=129.972m; L=97.275m; R=-85.000m L=150.349m
VERTICAL	G=5.811 L=2729.053m
SUPER ELEVATION	Q=4.000; Q=6.800; Q=7.000; Q=6.400
CHAINAGE	25000, 25010, 25020, 25030, 25040, 25050, 25060, 25070, 25080, 25090, 25100, 25110, 25120, 25130, 25140, 25150, 25160, 25170, 25180, 25190, 25200, 25210, 25220, 25230, 25240, 25250, 25260, 25270, 25280, 25290, 25300, 25310, 25320, 25330, 25340, 25350, 25360, 25370, 25380, 25390, 25400, 25410, 25420, 25430, 25440, 25450, 25460, 25470, 25480, 25490, 25500, 25510, 25520, 25530, 25540, 25550, 25560, 25570, 25580, 25590, 25600, 25610, 25620, 25630, 25640, 25650, 25660, 25670, 25680, 25690, 25700, 25710, 25720, 25730, 25740, 25750, 25760, 25770, 25780, 25790, 25800, 25810, 25820, 25830, 25840, 25850, 25860, 25870, 25880, 25890, 25900, 25910, 25920, 25930, 25940, 25950, 25960, 25970, 25980, 25990, 26000

PLAN & PROFILE FROM
CHAINAGE 25+000 TO 26+000

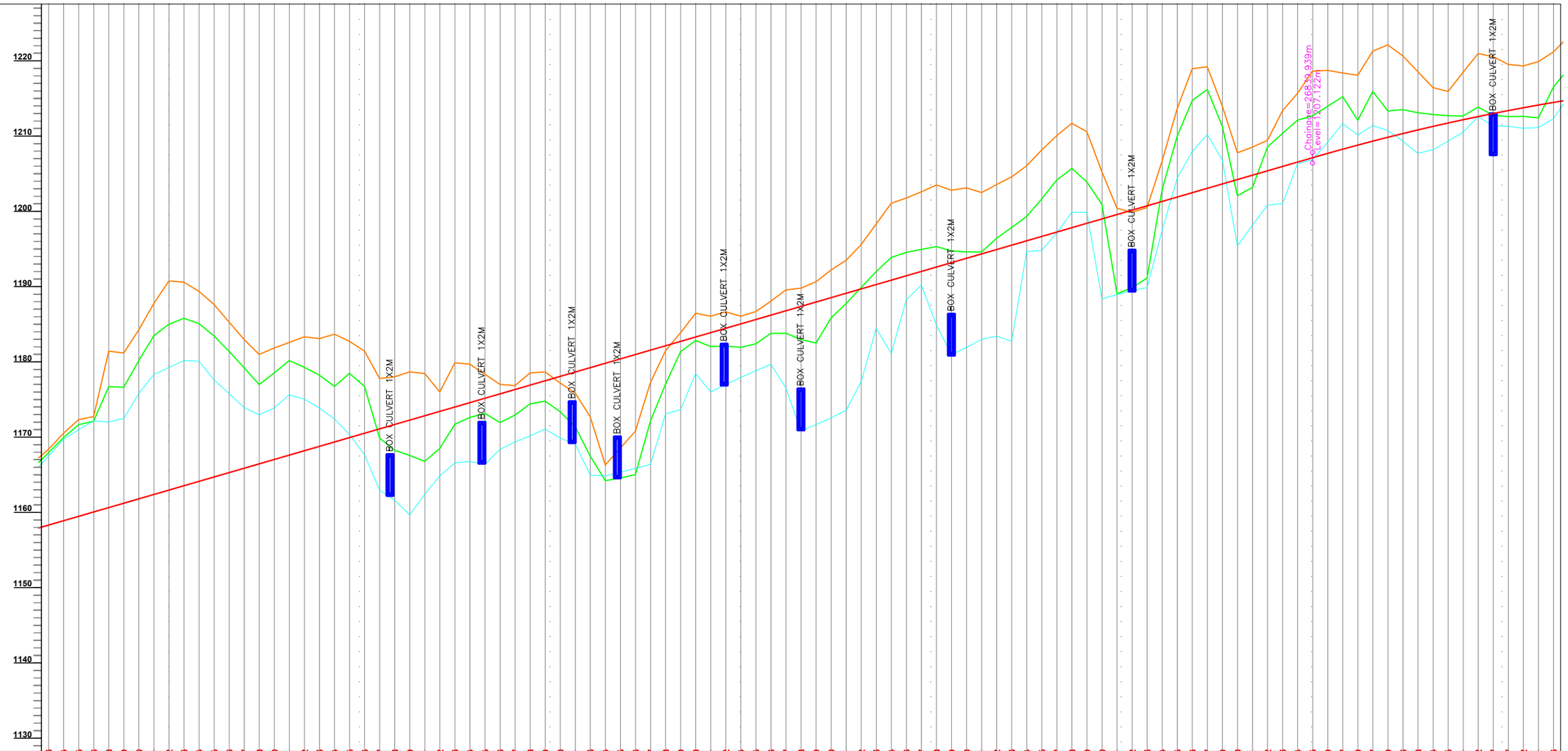
PLAN LEGEND:

	PROPOSED CENTER LINE
	PROPOSED ROAD EDGE
	PROPOSED DRAIN
	PROPOSED EARTHEN SHOULDER
	ROW
	MNB/MJB
	CULVERT


MATCH LINE
EARTHEN SHOULDER
PROPOSED CARRIAGEWAY
PROPOSED CL
25000
25100
25200
25300
25400
25500
25600
25700
25800
25900
26000
CART TRACK
CART TRACK
CART TRACK

PROFILE LEGEND :

- BOX CULVERT
- PIPE CULVERT
- UNDERPASSES/ MNB/MJB/ FLYOVER



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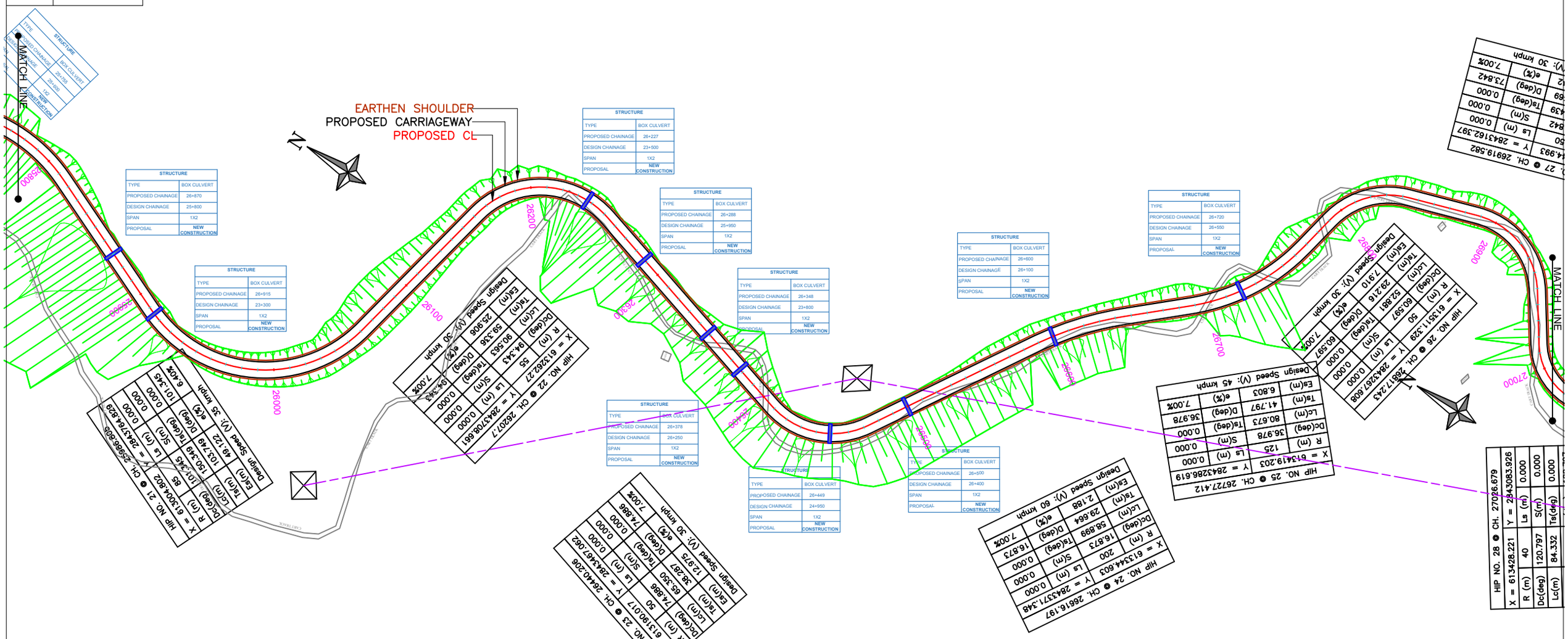
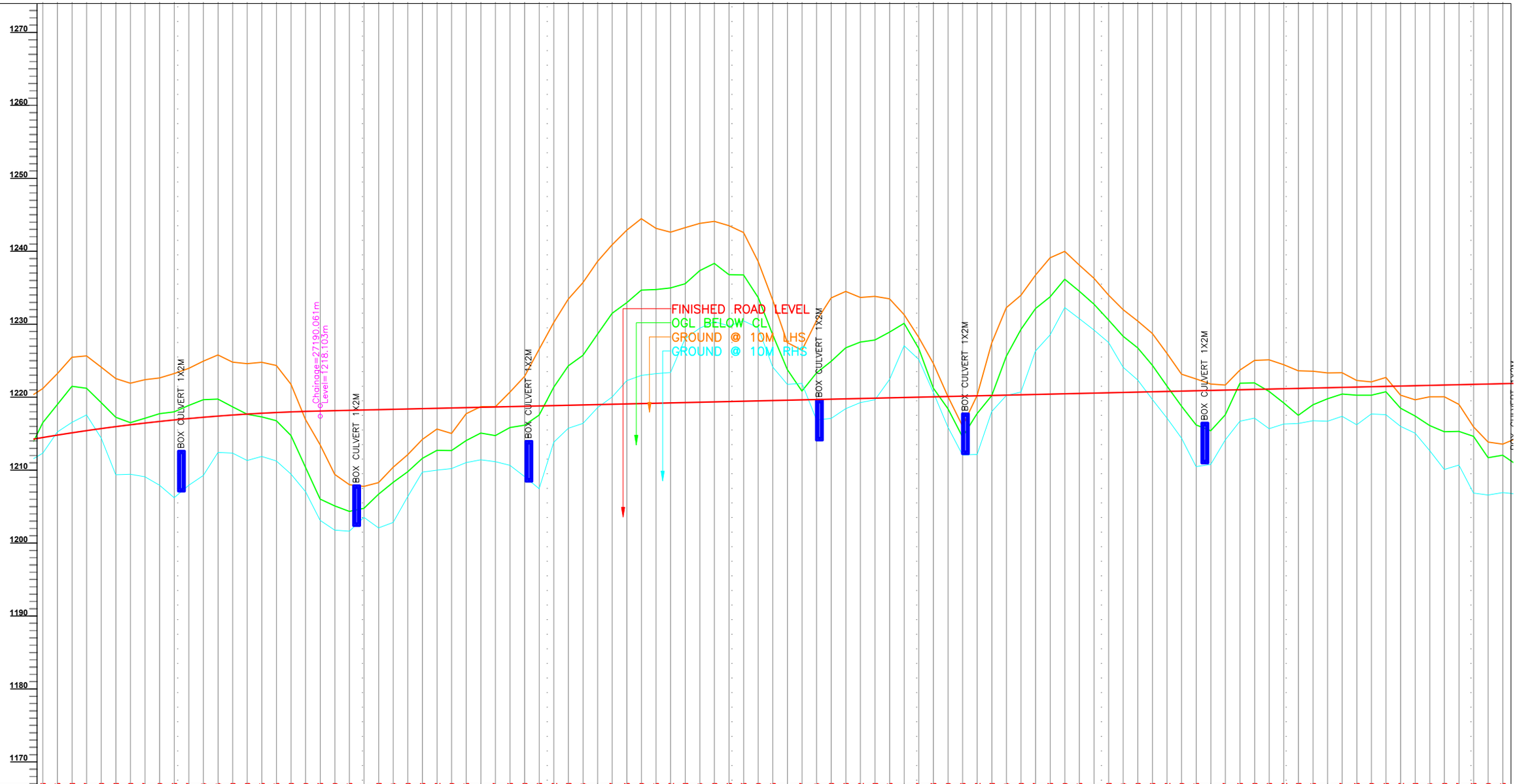
PLAN LEGEND:

	PROPOSED CENTER LINE
	PROPOSED ROAD EDGE
	PROPOSED DRAIN
	PROPOSED EARTHEN SHOULDER
	ROW
	MNB/MJB
	CULVERT


EARTHEN SHOULDER
PROPOSED CARRIAGEWAY
PROPOSED CL
N
MATCH LINE
MATCH LINE
25800
25900
26000
26100
26200
26300
26400
26500
26600
26700
26800
26900
27000
CONTOUR
CONTOUR
CONTOUR

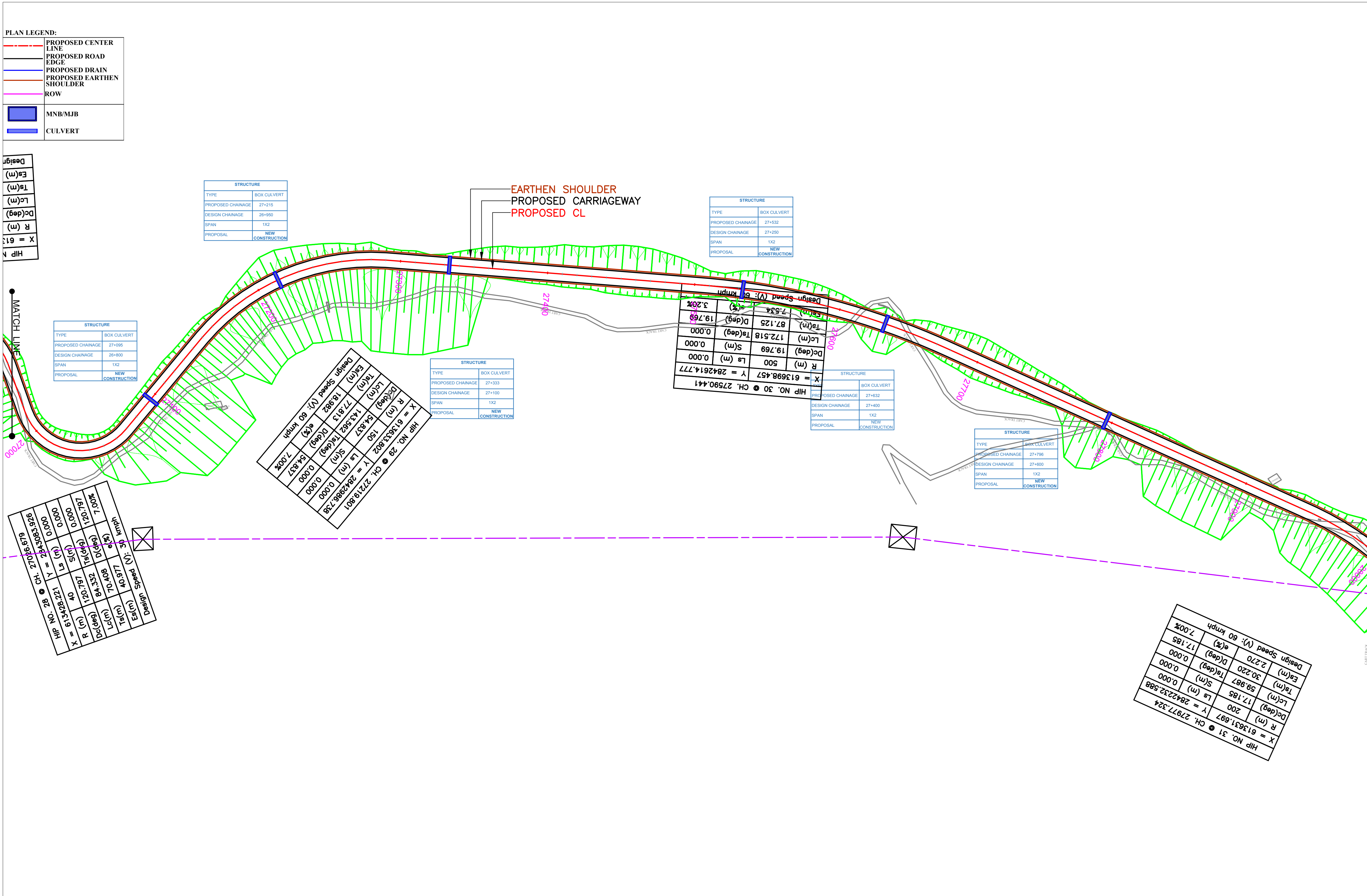
PROFILE LEGEND :

	BOX CULVERT
	PIPE CULVERT
	UNDERPASSES/ MNB/MJB/ FLYOVER



FINISHED ROAD LEVEL	1214.46 1214.79 1214.98 1215.10 1215.40 1215.69 1215.95 1216.21 1216.44 1216.66 1216.87 1217.06 1217.24 1217.40 1217.55 1217.68 1217.79 1217.89 1217.98 1218.04 1218.10 1218.14 1218.19 1218.24 1218.28 1218.33 1218.38 1218.42 1218.47 1218.51 1218.56 1218.61 1218.65 1218.70 1218.75 1218.79 1218.84 1218.88 1218.93 1218.98 1219.02 1219.07 1219.11 1219.16 1219.21 1219.25 1219.30 1219.35 1219.39 1219.43 1219.48 1219.53 1219.58 1219.62 1219.67 1219.72 1219.76 1219.81 1219.85 1219.90 1219.95 1219.99 1220.04 1220.08 1220.13 1220.18 1220.22 1220.27 1220.32 1220.37 1220.41 1220.45 1220.50 1220.55 1220.59 1220.64 1220.69 1220.73 1220.78 1220.82 1220.87 1220.92 1220.96 1221.01 1221.06 1221.10 1221.15 1221.19 1221.24 1221.29 1221.33 1221.38 1221.42 1221.47 1221.52 1221.56 1221.61 1221.66 1221.70 1221.75 1221.79 1221.84
LEVEL BELOW PROPOSED CL	1216.49 1216.77 1217.04 1217.29 1217.53 1217.76 1217.98 1218.19 1218.39 1218.58 1218.76 1218.93 1219.09 1219.24 1219.38 1219.51 1219.63 1219.74 1219.84 1219.93 1220.01 1220.08 1220.14 1220.19 1220.23 1220.26 1220.28 1220.29 1220.29 1220.28 1220.26 1220.23 1220.19 1220.14 1220.08 1220.01 1219.93 1219.84 1219.74 1219.63 1219.51 1219.38 1219.24 1219.09 1218.93 1218.76 1218.58 1218.39 1218.19 1217.98 1217.76 1217.53 1217.29 1217.04 1216.77 1216.49
GROUND @ 10 M LHS	1221.17 1223.22 1225.47 1225.65 1224.12 1222.54 1221.91 1222.63 1223.23 1223.94 1224.93 1225.76 1224.79 1224.59 1224.77 1224.34 1221.77 1221.92 1213.46 1209.41 1201.77 1201.62 1208.00 1203.52 1202.07 1202.82 1210.38 1212.11 1214.20 1215.62 1215.02 1217.72 1218.70 1218.67 1220.69 1218.70 1211.02 1211.40 1211.15 1210.65 1209.11 1207.46 1203.11 1201.77 1201.62 1203.52 1207.77 1208.28 1206.69 1208.32 1212.11 1209.77 1211.60 1212.67 1214.04 1215.07 1214.72 1216.15 1216.83 1218.75 1219.79 1219.43 1219.48 1219.55 1219.30 1219.35 1219.39 1219.43 1219.48 1219.53 1219.58 1219.62 1219.67 1219.72 1219.76 1219.81 1219.85 1219.90 1219.95 1219.99 1220.04 1220.08 1220.13 1220.18 1220.22 1220.27 1220.32 1220.37 1220.41 1220.45 1220.50 1220.55 1220.59 1220.64 1220.69 1220.73 1220.78 1220.82 1220.87 1220.92 1220.96 1221.01 1221.06 1221.10 1221.15 1221.19 1221.24 1221.29 1221.33 1221.38 1221.42 1221.47 1221.52 1221.56 1221.61 1221.66 1221.70 1221.75 1221.79 1221.84
GROUND @ 10 M RHS	1212.31 1215.22 1223.22 1218.98 1214.79 1214.46 1216.54 1225.47 1221.46 1225.65 1221.21 1215.40 1224.12 1219.25 1215.69 1222.54 1217.24 1215.95 1221.91 1216.50 1216.21 1222.63 1222.39 1217.10 1216.44 1223.23 1217.93 1216.87 1223.94 1218.86 1217.06 1224.93 1219.65 1217.24 1225.76 1219.73 1217.40 1224.79 1218.67 1217.55 1224.59 1217.65 1217.68 1224.77 1217.29 1217.79 1224.34 1216.77 1217.89 1221.77 1214.74 1217.98 1221.92 1210.37 1218.04 1213.46 1206.02 1218.10 1209.41 1205.09 1218.14 1201.77 1204.34 1218.19 1201.62 1208.00 1218.24 1203.52 1204.76 1218.28 1202.07 1207.77 1208.28 1206.69 1202.82 1208.32 1218.33 1210.38 1212.11 1209.77 1218.38 1214.20 1211.60 1218.42 1215.62 1212.70 1218.47 1215.02 1212.67 1218.51 1217.72 1214.04 1218.56 1218.70 1215.07 1218.61 1218.67 1214.72 1218.65 1220.69 1216.15 1218.70 1222.84 1216.83 1218.75 1226.56 1217.54 1218.79 1230.23 1221.36 1218.84 1233.44 1224.23 1218.88 1235.69 1226.73 1218.93 1238.60 1228.64 1218.98 1240.86 1231.40 1219.02 1242.86 1232.95 1219.07 1244.46 1234.67 1219.11 1243.14 1234.75 1219.16 1243.22 1234.97 1219.21 1242.61 1235.54 1219.25 1243.23 1235.54 1219.30 1243.82 1237.34 1219.35 1244.09 1238.33 1219.39 1242.57 1236.75 1219.43 1238.60 1233.67 1219.48 1233.30 1228.55 1219.53 1227.48 1223.78 1219.58 1226.43 1220.83 1219.62 1221.88 1216.88 1230.47 1223.32 1219.67 1217.08 1233.60 1224.04 1219.72 1218.42 1226.76 1219.76 1219.25 1227.54 1219.81 1233.81 1227.83 1219.85 1233.48 1228.91 1219.90 1231.30 1230.11 1219.95 1228.19 1226.67 1219.99 1225.17 1221.24 1220.04 1220.66 1224.62 1218.42 1220.08 1220.04 1216.04 1214.55 1220.13 1212.07 1220.23 1217.75 1220.18 1212.14 1220.22 1218.02 1220.22 1227.43 1229.21 1220.27 1220.22 1232.26 1225.59 1220.32 1233.96 1229.28 1220.37 1236.73 1232.14 1220.41 1239.10 1233.75 1220.45 1239.98 1236.16 1220.50 1238.10 1234.52 1220.55 1236.30 1232.75 1220.59 1233.99 1230.59 1220.64 1231.99 1228.34 1220.69 1230.43 1226.75 1220.73 1228.73 1224.38 1220.78 1217.14 1226.00 1221.53 1220.82 1214.37 1223.15 1218.76 1220.87 1210.47 1222.49 1216.19 1220.92 1210.77 1221.79 1215.39 1220.96 1214.14 1221.65 1217.53 1221.01 1216.70 1223.71 1221.91 1221.06 1217.12 1225.03 1221.95 1221.10 1215.67 1225.11 1220.75 1221.15 1216.31 1224.44 1219.20 1221.19 1216.39 1223.61 1217.51 1221.24 1216.69 1223.55 1218.95 1221.29 1216.98 1223.32 1219.77 1221.33 1217.37 1223.34 1220.42 1221.38 1216.21 1222.28 1220.26 1221.42 1217.69 1222.09 1220.26 1221.47 1217.59 1222.70 1220.73 1221.52 1216.00 1220.27 1218.49 1221.56 1215.06 1219.63 1217.41 1221.61 1212.65 1220.04 1216.10 1221.66 1210.08 1219.00 1215.30 1221.70 1206.85 1215.92 1214.62 1221.75 1206.58 1213.84 1211.70 1221.79 1206.91 1213.55 1212.04 1221.84
HORIZONTAL	R=−40.000m L=84.332m; L=79.175m; R=150.000m L=143.562m; L=212.600m; R=500.000m L=172.517m; L=270.630m; R=200.000m L=59.987m
VERTICAL	L=350.121m R=−6545.615m; G=0.462 L=893.226m
SUPER ELEVATION	Q=7.000; Q=7.000; Q=3.200; Q=7.000
	Q=7.000; Q=7.000; Q=3.200; Q=7.000
CHAINAGE	27000 27010 27020 27030 27040 27050 27060 27070 27080 27090 27100 27110 27120 27130 27140 27150 27160 27170 27180 27190 27200 27210 27220 27230 27240 27250 27260 27270 27280 27290 27300 27310 27320 27330 27340 27350 27360 27370 27380 27390 27400 27410 27420 27430 27440 27450 27460 27470 27480 27490 27500 27510 27520 27530 27540 27550 27560 27570 27580 27590 27600 27610 27620 27630 27640 27650 27660 27670 27680 27690 27700 27710 27720 27730 27740 27750 27760 27770 27780 27790 27800 27810 27820 27830 27840 27850 27860 27870 27880 27890 27900 27910 27920 27930 27940 27950 27960 27970 27980 27990 28000

PLAN & PROFILE FROM
CHAINAGE 27+000 TO 28+000



STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	27+095
DESIGN CHAINAGE	26+800
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	27+215
DESIGN CHAINAGE	26+950
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	27+333
DESIGN CHAINAGE	27+100
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	27+532
DESIGN CHAINAGE	27+250
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	27+632
DESIGN CHAINAGE	27+400
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	27+796
DESIGN CHAINAGE	27+600
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

HIP NO. 28 @ CH. 27026.679			
X = 613428.221		Y = 2843083.926	
R (m)	40	Ls (m)	0.000
Dc(deg)	120.797	S(m)	0.000
Lc(m)	84.332	Ts(deg)	0.000
Ts(m)	70.408	D(deg)	120.797
Es(m)	40.977	e(%)	7.00%
Design Speed (V): 30 kmph			

HIP NO. 29 @ CH. 27219.801			
X = 613633.802		Y = 2842986.738	
R (m)	150	Ls (m)	0.000
Dc(deg)	54.837	S(m)	0.000
Lc(m)	143.562	Ts(deg)	0.000
Ts(m)	77.813	D(deg)	54.837
Es(m)	18.982	e(%)	7.00%
Design Speed (V): 60 kmph			

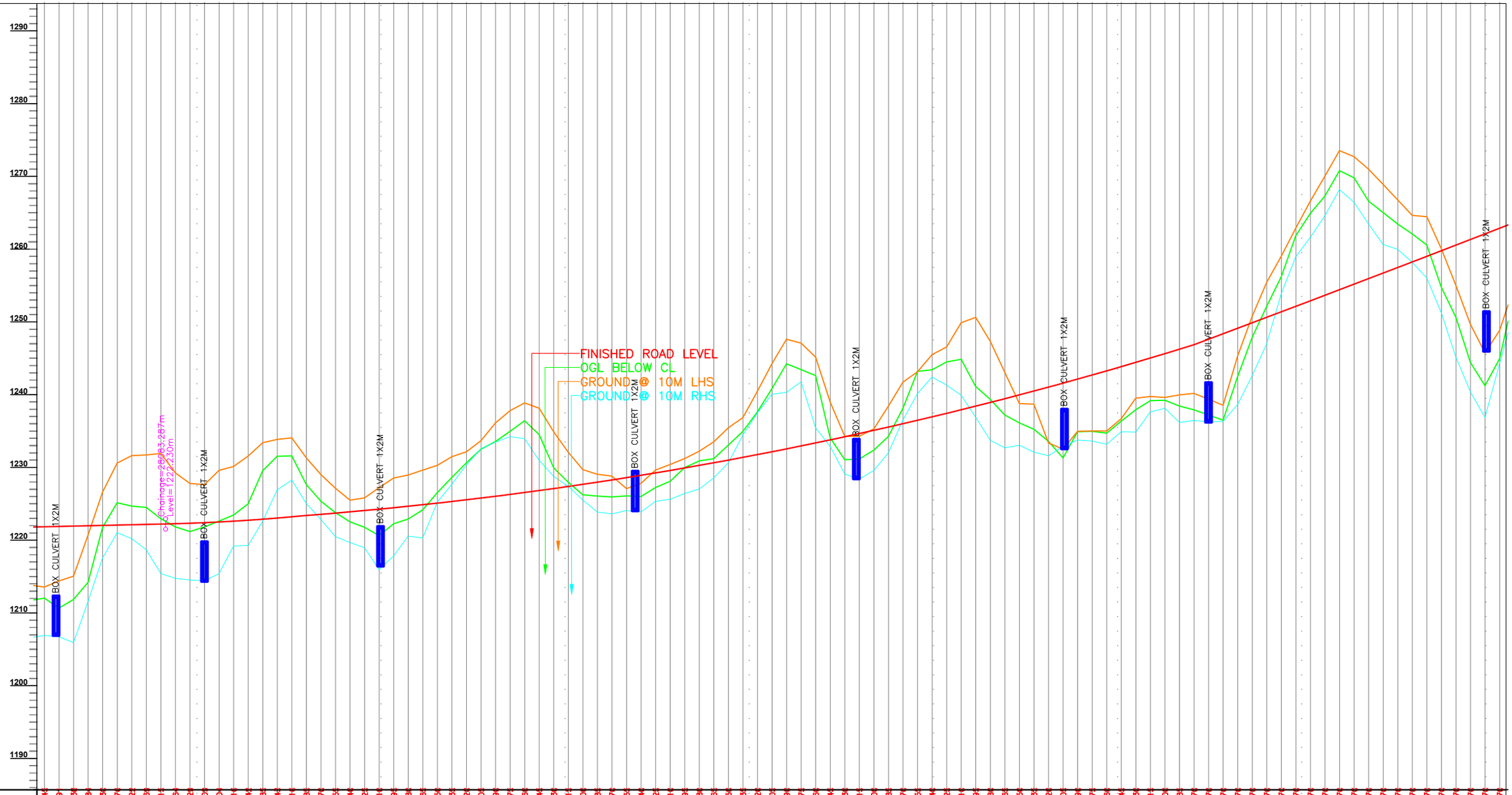
HIP NO. 30 @ CH. 27590.441			
X = 613698.457		Y = 2842614.777	
R (m)	500	Ls (m)	0.000
Dc(deg)	19.769	S(m)	0.000
Lc(m)	172.518	Ts(deg)	0.000
Ts(m)	87.125	D(deg)	19.769
Es(m)	7.534	e(%)	3.20%
Design Speed (V): 60 kmph			

HIP NO. 31 @ CH. 27977.324			
X = 613631.697		Y = 2842232.588	
R (m)	200	Ls (m)	0.000
Dc(deg)	17.185	S(m)	0.000
Lc(m)	59.987	Ts(deg)	0.000
Ts(m)	30.220	D(deg)	17.185
Es(m)	2.270	e(%)	7.00%
Design Speed (V): 60 kmph			

PLAN & PROFILE FROM
CHAINAGE 27+000 TO 28+000

PROFILE LEGEND :

- BOX CULVERT
- PIPE CULVERT
- UNDERPASSES/ MNB/MJB/ FLYOVER



FINISHED ROAD LEVEL	1221.843, 1221.891, 1221.938, 1221.985, 1222.032, 1222.079, 1222.126, 1222.169, 1222.261, 1222.308, 1222.355, 1222.402, 1222.503, 1222.614, 1222.742, 1222.868, 1223.041, 1223.214, 1223.386, 1223.775, 1224.153, 1224.542, 1224.925, 1225.316, 1225.695, 1226.088, 1226.465, 1226.853, 1227.233, 1227.625, 1227.997, 1228.003, 1228.396, 1228.775, 1229.166, 1229.543, 1229.933, 1230.314, 1230.705, 1231.085, 1231.475, 1231.855, 1232.244, 1232.625, 1233.016, 1233.393, 1233.786, 1234.165, 1234.556, 1234.933, 1235.323, 1235.703, 1236.095, 1236.475, 1236.865, 1237.245, 1237.635, 1237.997, 1238.401, 1238.791, 1239.170, 1239.553, 1239.944, 1240.323, 1240.714, 1241.095, 1241.486, 1241.867, 1242.257, 1242.635, 1243.025, 1243.406, 1243.796, 1244.566, 1244.943, 1245.335, 1245.714, 1246.105, 1246.485, 1246.875, 1247.576, 1248.275, 1248.975, 1249.675, 1250.375, 1251.075, 1251.775, 1252.475, 1253.175, 1253.875, 1254.575, 1255.275, 1255.975, 1256.675, 1257.375, 1258.075, 1258.775, 1259.475, 1260.175, 1260.875, 1261.575
LEVEL BELOW PROPOSED CL	1212.84, 1210.66, 1211.84, 1221.98, 1222.03, 1225.14, 1224.67, 1224.50, 1222.95, 1221.82, 1221.18, 1222.32, 1222.40, 1222.62, 1222.81, 1223.46, 1224.09, 1229.64, 1222.88, 1223.04, 1223.65, 1223.21, 1223.38, 1227.64, 1227.80, 1228.39, 1228.77, 1229.16, 1229.54, 1229.93, 1230.31, 1230.70, 1231.08, 1231.47, 1231.85, 1232.24, 1232.62, 1233.01, 1233.39, 1233.78, 1234.16, 1234.55, 1234.93, 1235.32, 1235.70, 1236.09, 1236.47, 1236.86, 1237.24, 1237.63, 1237.99, 1238.40, 1238.79, 1239.17, 1239.55, 1239.94, 1240.32, 1240.71, 1241.09, 1241.48, 1241.86, 1242.25, 1242.63, 1243.02, 1243.40, 1243.79, 1244.56, 1244.94, 1245.33, 1245.71, 1246.10, 1246.48, 1246.87, 1247.57, 1248.27, 1248.97, 1249.67, 1250.37, 1251.07, 1251.77, 1252.47, 1253.17, 1253.87, 1254.57, 1255.27, 1255.97, 1256.67, 1257.37, 1258.07, 1258.77, 1259.47, 1260.17, 1260.87, 1261.57
GROUND @ 10 M LHS	1213.55, 1214.39, 1215.05, 1220.70, 1226.62, 1230.59, 1231.61, 1231.71, 1231.91, 1229.25, 1227.79, 1227.63, 1229.59, 1230.13, 1231.55, 1233.39, 1233.85, 1234.06, 1228.25, 1231.30, 1229.01, 1227.13, 1225.50, 1225.80, 1227.22, 1228.54, 1228.95, 1229.62, 1231.47, 1232.15, 1233.67, 1233.11, 1236.80, 1234.23, 1233.95, 1238.13, 1234.89, 1232.09, 1229.69, 1229.06, 1228.80, 1227.09, 1227.81, 1225.33, 1225.62, 1226.41, 1227.03, 1228.56, 1230.42, 1231.21, 1232.22, 1233.52, 1235.44, 1236.84, 1240.47, 1244.26, 1247.62, 1247.08, 1245.16, 1238.98, 1234.28, 1231.26, 1238.39, 1235.30, 1232.00, 1236.52, 1241.72, 1243.14, 1241.31, 1246.55, 1249.88, 1250.62, 1233.73, 1239.34, 1243.07, 1238.77, 1233.05, 1238.69, 1233.36, 1232.52, 1233.76, 1234.95, 1235.01, 1233.62, 1233.18, 1234.90, 1237.62, 1239.74, 1239.61, 1239.96, 1240.17, 1239.37, 1236.32, 1238.54, 1245.31, 1250.77, 1255.45, 1259.03, 1258.97, 1262.89, 1266.61, 1261.63, 1270.04, 1273.54, 1272.71, 1263.44, 1260.63, 1268.89, 1266.76, 1264.64, 1259.96, 1258.18, 1256.02, 1260.05, 1255.15, 1251.25, 1245.74, 1236.86, 1244.26, 1248.81
GROUND @ 10 M RHS	1206.91, 1206.71, 1205.92, 1211.58, 1217.56, 1221.03, 1220.20, 1218.66, 1215.41, 1214.74, 1214.53, 1214.41, 1215.40, 1219.18, 1219.26, 1222.60, 1226.91, 1228.25, 1225.03, 1222.84, 1220.49, 1219.67, 1218.96, 1215.95, 1217.84, 1220.56, 1220.29, 1225.24, 1227.68, 1230.34, 1232.56, 1233.48, 1234.23, 1233.95, 1230.97, 1228.76, 1227.40, 1225.52, 1223.86, 1223.61, 1224.07, 1224.73, 1225.44, 1226.41, 1227.80, 1228.56, 1230.62, 1234.45, 1237.50, 1240.05, 1244.26, 1247.32, 1247.08, 1245.16, 1232.89, 1229.08, 1228.39, 1232.00, 1236.52, 1242.43, 1239.91, 1236.89, 1233.73, 1232.70, 1232.10, 1231.60, 1232.89, 1233.76, 1235.01, 1234.90, 1236.69, 1239.51, 1237.62, 1235.13, 1236.18, 1236.45, 1236.28, 1239.37, 1236.32, 1236.64, 1238.54, 1242.61, 1247.00, 1253.90, 1258.97, 1261.63, 1264.61, 1268.18, 1266.43, 1263.44, 1260.63, 1259.96, 1256.02, 1251.25, 1245.15, 1240.37, 1236.86, 1244.26
HORIZONTAL	L=74.041m; R= 100.000m L=177.236m; L=83.751m; R=100.000m L=138.049m; L=158.824m; R=100.000m L=165.478m; L=146.697m; R= 1 L=11
VERTICAL	R=6420.888m L=419.941m
SUPER ELEVATION	Q=7.000; Q=7.001; Q=7.000; Q=7.000; Q=7.0
	Q=7.000; Q=7.001; Q=7.000; Q=7.000; Q=7.
CHAINAGE	28000, 28010, 28020, 28030, 28040, 28050, 28060, 28070, 28080, 28090, 28100, 28110, 28120, 28130, 28140, 28150, 28160, 28170, 28180, 28190, 28200, 28210, 28220, 28230, 28240, 28250, 28260, 28270, 28280, 28290, 28300, 28310, 28320, 28330, 28340, 28350, 28360, 28370, 28380, 28390, 28400, 28410, 28420, 28430, 28440, 28450, 28460, 28470, 28480, 28490, 28500, 28510, 28520, 28530, 28540, 28550, 28560, 28570, 28580, 28590, 28600, 28610, 28620, 28630, 28640, 28650, 28660, 28670, 28680, 28690, 28700, 28710, 28720, 28730, 28740, 28750, 28760, 28770, 28780, 28790, 28800, 28810, 28820, 28830, 28840, 28850, 28860, 28870, 28880, 28890, 28900, 28910, 28920, 28930, 28940, 28950, 28960, 28970, 28980, 28990, 29000

PLAN & PROFILE FROM
CHAINAGE 28+000 TO 29+000

PLAN LEGEND:

	PROPOSED CENTER LINE
	PROPOSED ROAD EDGE
	PROPOSED DRAIN
	PROPOSED EARTHEN SHOULDER
	ROW
	MNB/MJB
	CULVERT

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	28+406
DESIGN CHAINAGE	28+100
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	28+558
DESIGN CHAINAGE	28+250
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	28+701
DESIGN CHAINAGE	28+400
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

HIP NO. 33 @ CH. 28411.37	
X = 613806.681	Y = 2841953.307
R (m)	100	Ls (m)	0.000
Dc(deg)	79.096	S(m)	0.000
Lc(m)	138.049	Ts(deg)	0.000
Ts(m)	82.575	D(deg)	79.096
Es(m)	29.687	e(%)	7.00%
Design Speed (V): 40 kmph			

HIP NO. 34 @ CH. 28721.958	
X = 613778.35	Y = 2841604.284
R (m)	100	Ls (m)	0.000
Dc(deg)	94.812	S(m)	0.000
Lc(m)	165.479	Ts(deg)	0.000
Ts(m)	108.773	D(deg)	94.812
Es(m)	47.755	e(%)	7.00%
Design Speed (V): 40 kmph			

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	28+008
DESIGN CHAINAGE	27+800
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	28+231
DESIGN CHAINAGE	27+950
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	28+110
DESIGN CHAINAGE	25+100
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

HIP NO. 32 @ CH. 28169.976	
X = 613528.42	Y = 2842030.71
R (m)	100	Ls (m)	0.000
Dc(deg)	101.549	S(m)	0.000
Lc(m)	177.236	Ts(deg)	0.000
Ts(m)	122.500	D(deg)	101.549
Es(m)	58.134	e(%)	7.00%
Design Speed (V): 40 kmph			

HIP NO. 31 @ CH. 27977.324	
X = 613631.697	Y = 2842232.588
R (m)	200	Ls (m)	0.000
Dc(deg)	17.185	S(m)	0.000
Lc(m)	59.987	Ts(deg)	0.000
Ts(m)	30.220	D(deg)	17.185
Es(m)	2.270	e(%)	7.00%
Design Speed (V): 60 kmph			

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	29+991
DESIGN CHAINAGE	28+600
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

HIP NO. 36 @ CH. 29117.563	
X = 613398.283	Y = 2841560.195
R (m)	75	Ls (m)	0.000
Dc(deg)	15.015	S(m)	0.000
Lc(m)	19.654	Ts(deg)	0.000
Ts(m)	9.884	D(deg)	15.015
Es(m)	0.648	e(%)	7.00%
Design Speed (V): 35 kmph			

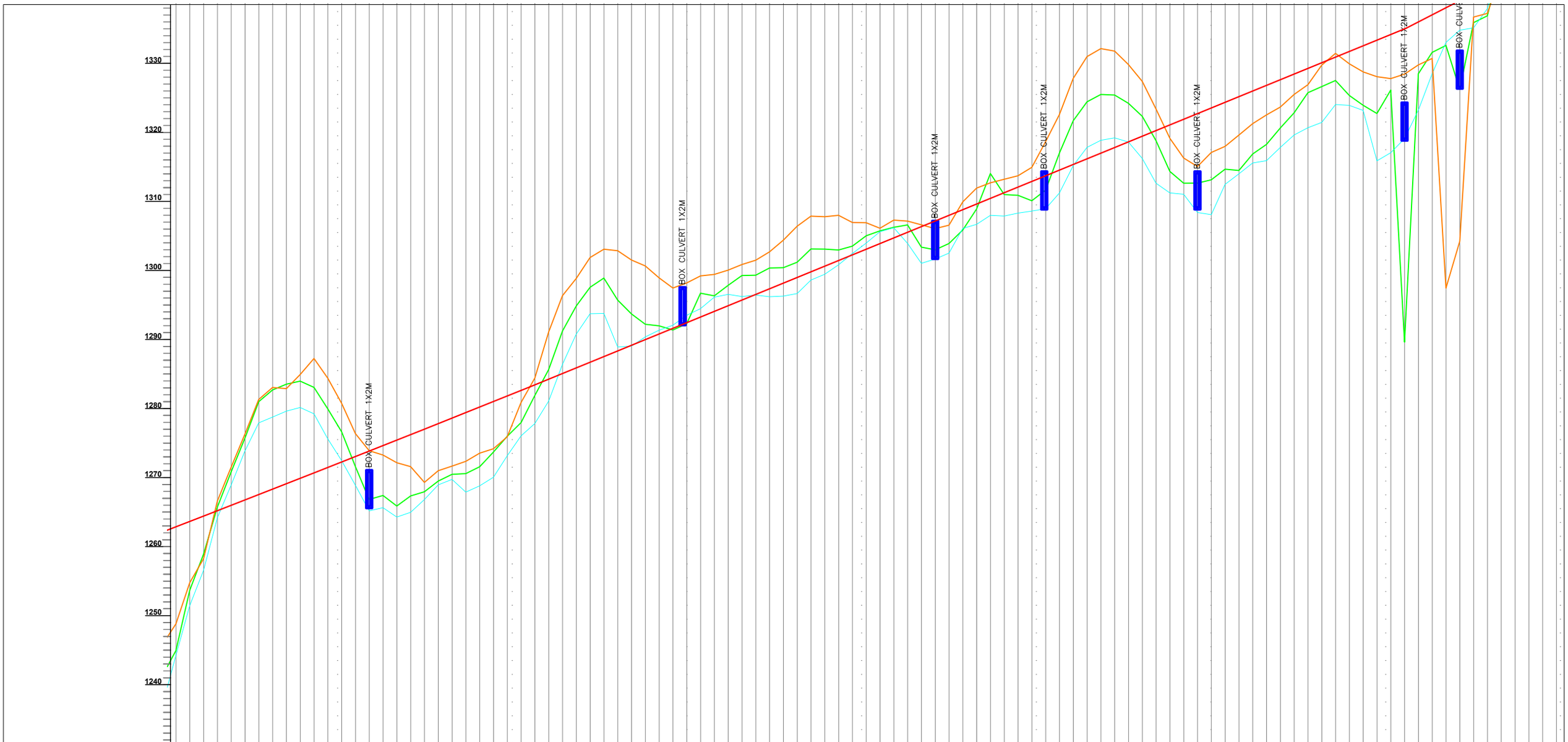
STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	29+500
DESIGN CHAINAGE	29+200
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

HIP NO. 35 @ CH. 29008.9	
X = 613462.416	Y = 2841556.886
R (m)	100	Ls (m)	0.000
Dc(deg)	65.898	S(m)	0.000
Lc(m)	115.013	Ts(deg)	0.000
Ts(m)	64.814	D(deg)	65.898
Es(m)	19.167	e(%)	7.00%
Design Speed (V): 40 kmph			

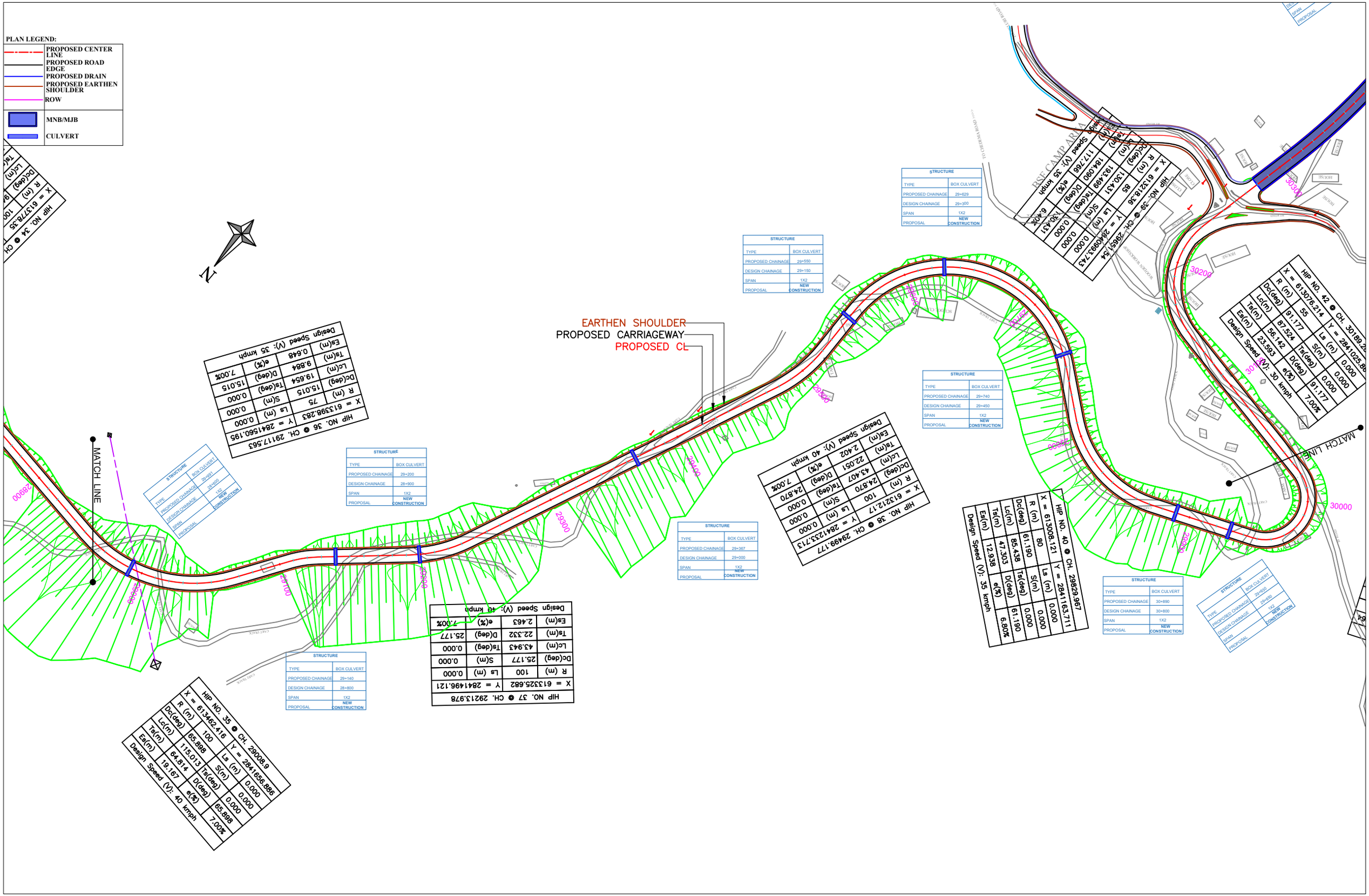
STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	29+100
DESIGN CHAINAGE	28+800
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

HIP NO. 37 @ CH. 28441.978	
X = 613543.9	Y = 2841496.121
R (m)	43.943	Ls (m)	0.000
Dc(deg)	22.332	S(m)	0.000
Lc(m)	2.463	Ts(deg)	0.000
Ts(m)		D(deg)	25.177
Es(m)		e(%)	7.00%
Design Speed (V): 40 kmph			

PLAN & PROFILE FROM
CHAINAGE 28+000 TO 29+000


1330
1320
1310
1300
1290
1280
1270
1260
1250
1240
BOX CULVERT 1X2M
BOX CULVERT 1X2M
BOX CULVERT 1X2M
BOX CULVERT 1X2M
BOX CULVERT 1X2M
BOX CULVERT 1X2M
BOX CULVE

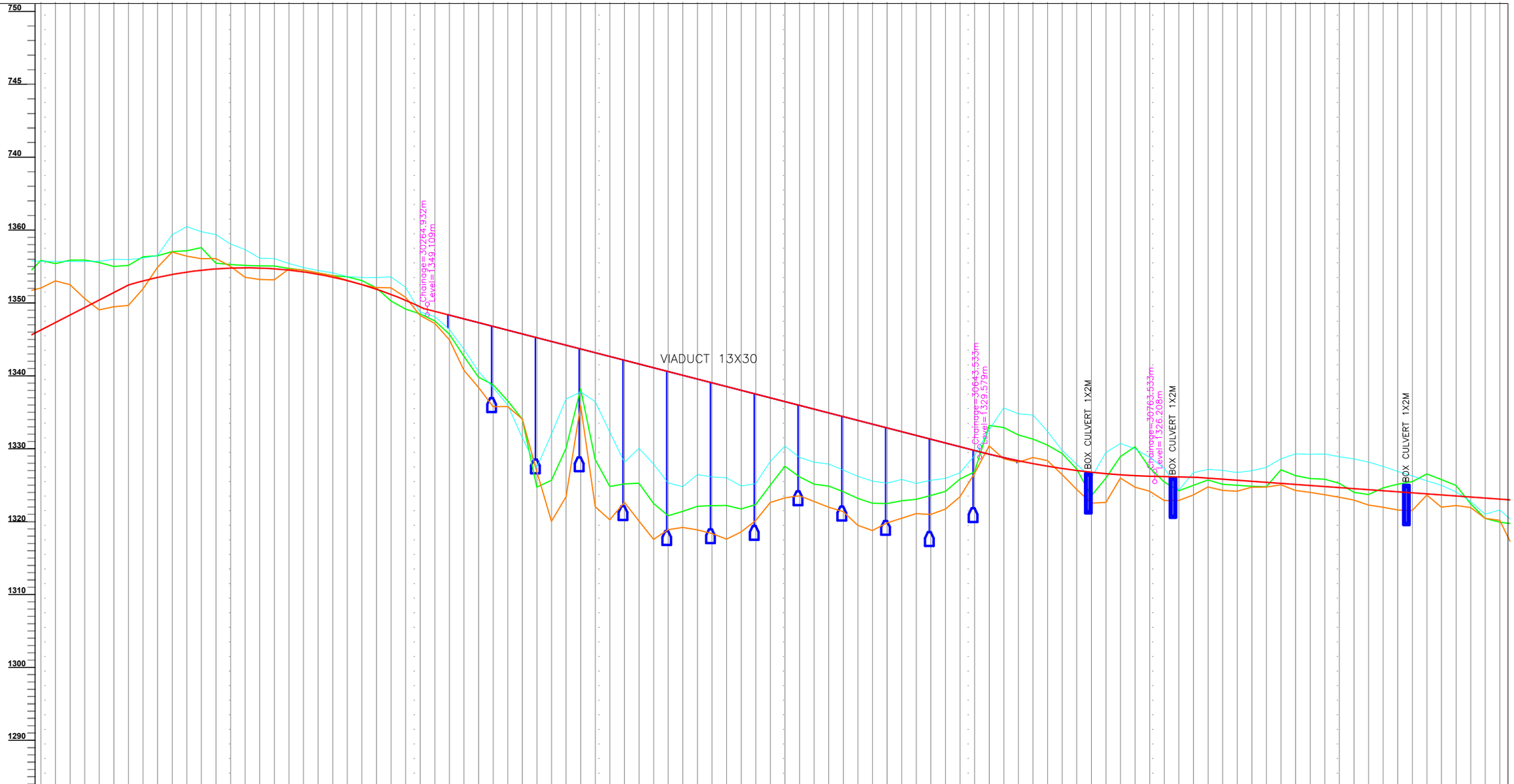
| | | |



PLAN & PROFILE FROM
CHAINAGE 29+000 TO 30+000

PROFILE LEGEND :

	BOX CULVERT
	PIPE CULVERT
	UNDERPASSES/ MNB/MJB/ FLYOVER



FINISHED ROAD LEVEL

1332.236 1332.990 1333.756 1334.516 1335.276 1336.036 1336.719 1337.408 1338.091 1338.768 1339.475 1340.161 1340.853 1341.542 1342.23 1342.926 1343.609 1344.298 1344.980 1345.67 1346.366 1346.058 1347.055 1347.744 1348.43 1349.122 1349.81 1349.356 1348.840 1348.332 1347.816 1347.300 1346.784 1346.268 1345.753 1345.237 1344.72 1344.203 1343.689 1343.173 1342.657 1342.142 1341.626 1341.110 1340.594 1340.078 1339.562 1339.047 1338.53 1338.015 1337.499 1336.983 1336.467 1335.95 1335.435 1334.920 1334.404 1333.888 1333.372 1332.856 1332.34 1331.825 1331.309 1330.793 1330.277 1329.76 1329.25 1328.76 1328.35 1327.958 1327.603 1327.290 1327.015 1326.779 1326.562 1326.42 1326.300 1326.226 1326.176 1326.132 1326.086 1326.046 1325.993 1325.94 1325.90 1325.855 1325.809 1325.763 1325.71 1325.67 1325.625 1325.579 1325.533 1325.48 1325.44 1325.340 1325.302 1325.256 1325.216 1325.116

LEVEL BELOW PROPOSED CL

1352.04 1353.02 1350.81 1349.04 1349.48 1349.66 1351.92 1354.89 1356.97 1356.42 1356.07 1356.09 1355.02 1353.524 1353.224 1353.168 1354.65 1354.516 1354.456 1354.134 1353.615 1353.104 1352.498 1352.109 1352.069 1352.077 1350.774 1348.274 1348.133 1346.386 1343.652 1340.603 1338.411 1335.774 1335.791 1334.081 1331.503 1327.452 1326.858 1326.04 1325.394 1325.254 1324.884 1325.208 1325.268 1325.25 1324.794 1325.301 1324.794 1326.446 1326.137 1326.021 1324.884 1325.208 1325.669 1325.706 1325.934 1326.706 1329.044 1326.618 1332.612 1334.802 1334.630 1332.380 1329.783 1327.863 1326.029 1329.478 1330.728 1329.977 1328.830 1327.340 1326.328 1326.714 1327.168 1327.032 1326.733 1326.983 1327.440 1328.615 1329.298 1329.231 1329.280 1328.905 1328.601 1328.174 1327.568 1326.884 1326.276 1325.595 1324.985 1324.082 1322.767 1321.025 1321.596

GROUND @ 10 M LHS

1352.04 1353.02 1350.81 1349.04 1349.48 1349.66 1351.92 1354.89 1356.97 1356.42 1356.07 1356.09 1355.02 1353.524 1353.224 1353.168 1354.65 1354.516 1354.456 1354.134 1353.615 1353.104 1352.498 1352.109 1352.069 1352.077 1350.774 1348.274 1348.133 1346.386 1343.652 1340.603 1338.411 1335.774 1335.791 1334.081 1331.503 1327.452 1326.858 1326.04 1325.394 1325.254 1324.884 1325.208 1325.268 1325.25 1324.794 1325.301 1324.794 1326.446 1326.137 1326.021 1324.884 1325.208 1325.669 1325.706 1325.934 1326.706 1329.044 1326.618 1332.612 1334.802 1334.630 1332.380 1329.783 1327.863 1326.029 1329.478 1330.728 1329.977 1328.830 1327.340 1326.328 1326.714 1327.168 1327.032 1326.733 1326.983 1327.440 1328.615 1329.298 1329.231 1329.280 1328.905 1328.601 1328.174 1327.568 1326.884 1326.276 1325.595 1324.985 1324.082 1322.767 1321.025 1321.596

GROUND @ 10 M RHS

1355.721 1355.710 1355.685 1355.722 1355.994 1355.943 1356.159 1356.510 1359.358 1360.475 1359.773 1359.382 1358.080 1357.323 1356.152 1356.087 1355.416 1354.868 1354.456 1354.134 1353.615 1353.104 1352.498 1352.487 1353.573 1352.146 1348.747 1348.133 1346.386 1343.652 1340.603 1338.391 1336.005 1331.503 1327.452 1332.014 1336.808 1335.932 1336.457 1332.271 1328.149 1330.052 1327.900 1328.816 1328.153 1327.899 1327.067 1326.223 1325.562 1325.280 1325.783 1325.253 1325.669 1325.934 1326.706 1329.044 1332.612 1335.594 1334.802 1334.630 1332.380 1329.783 1327.863 1326.029 1329.478 1330.728 1329.977 1328.830 1327.340 1326.328 1326.714 1327.168 1327.032 1326.733 1326.983 1327.440 1328.615 1329.298 1329.231 1329.280 1328.905 1328.601 1328.174 1327.568 1326.884 1326.276 1325.595 1324.985 1324.082 1322.767 1321.025 1321.596

HORIZONTAL

L=122.137m | R=55.000m L=87.524m | L=76.534m | R=−450.000m L=156.319m | L=82.360m | R=120.000m L=144.743m | L=44.371m | R=−80.000m L=82.762m | L | R=200.000m L=67.701m | L | R=−200 L=121.0

VERTICAL

L=199.865m R=−1643.528m | L=378.601m G=−5.158 | R=2554.416m L=120.000m | L=324.171m G=−0.461

SUPER ELEVATION

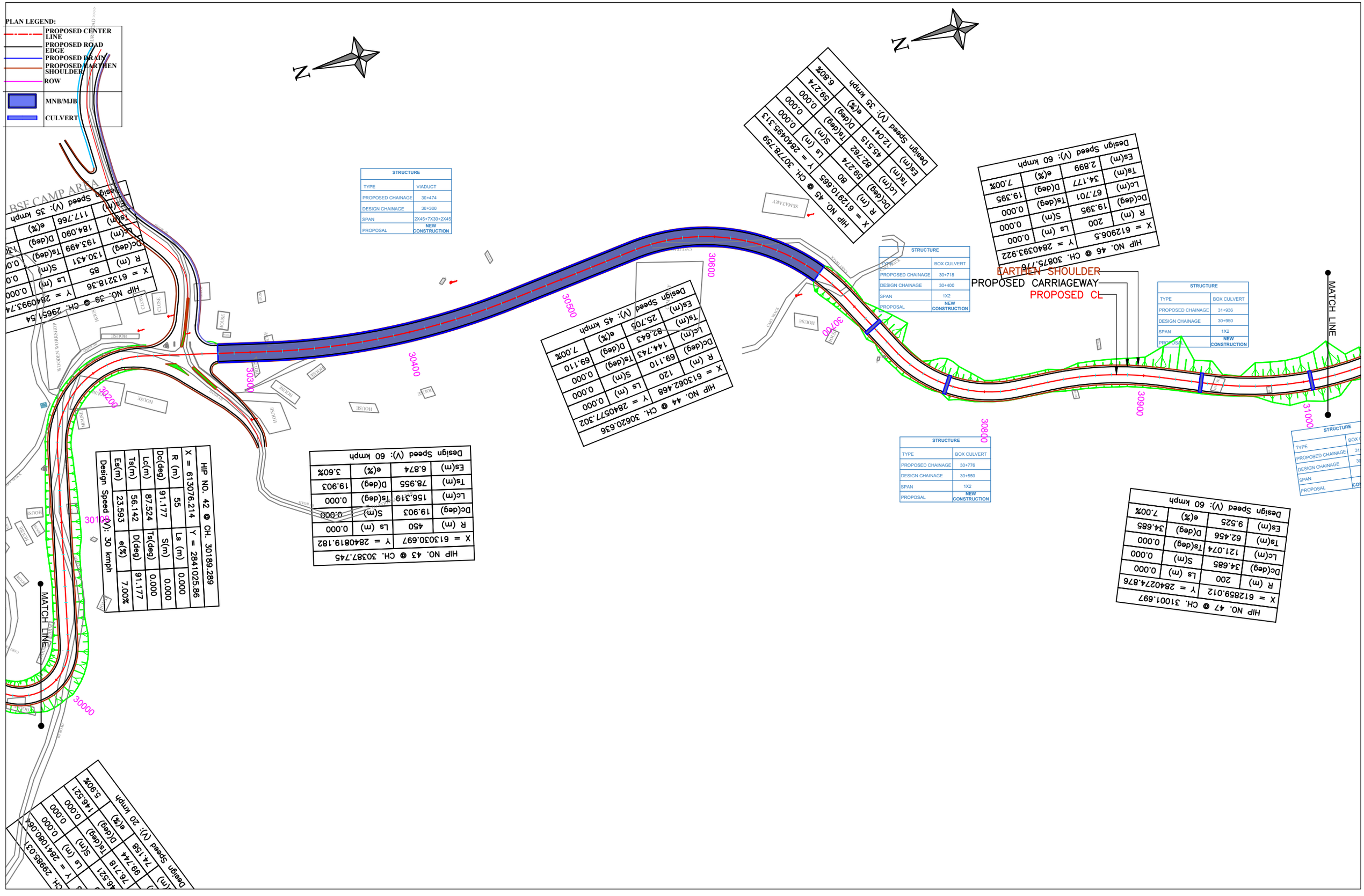
Q=7.000 | Q=3.600 | Q=7.000 | Q=6.800 | Q=7.000

Q=7.000 | Q=3.600 | Q=7.000 | Q=6.800 | Q=7.000

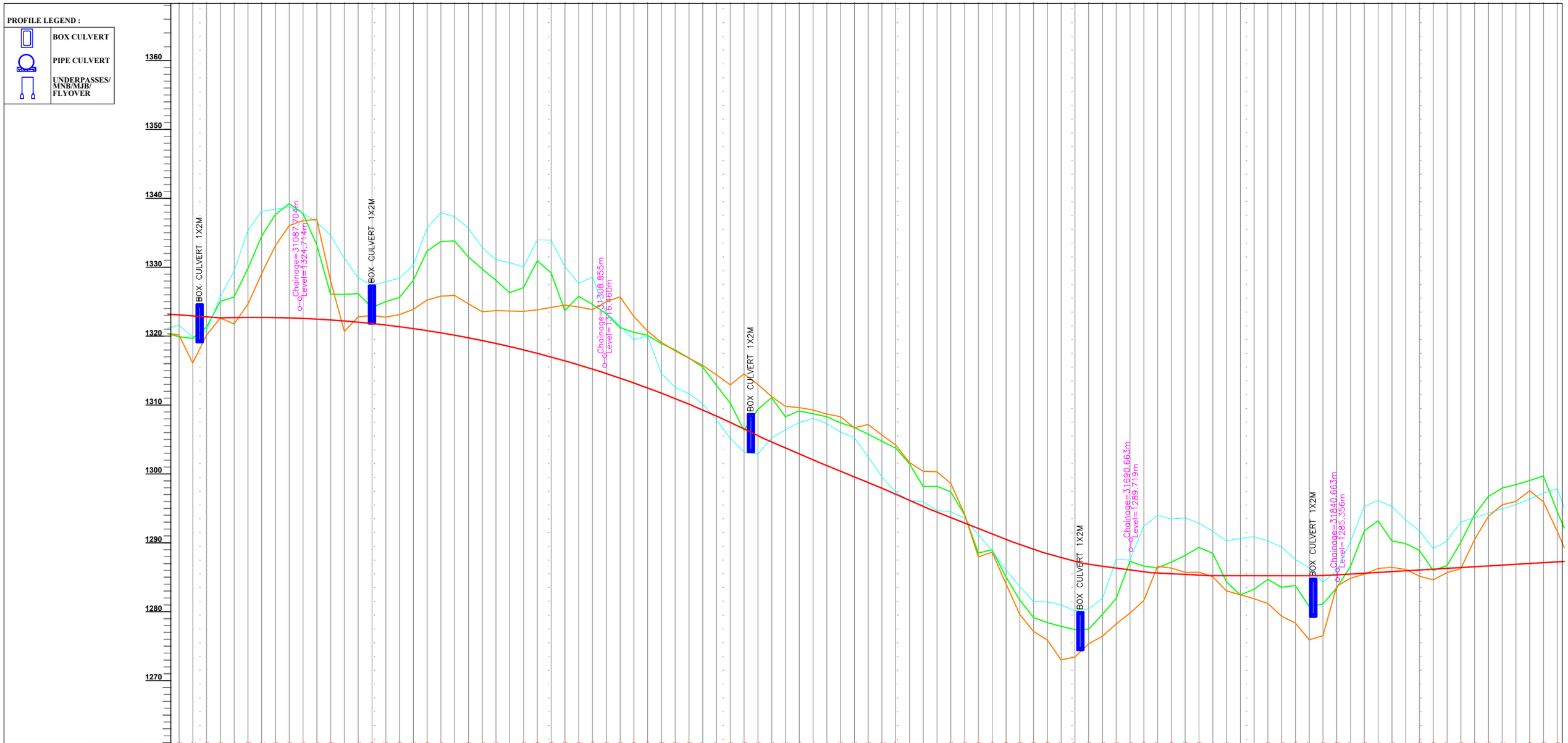
CHAINAGE

30000 30010 30020 30030 30040 30050 30060 30070 30080 30090 30100 30110 30120 30130 30140 30150 30160 30170 30180 30190 30200 30210 30220 30230 30240 30250 30260 30270 30280 30290 30300 30310 30320 30330 30340 30350 30360 30370 30380 30390 30400 30410 30420 30430 30440 30450 30460 30470 30480 30490 30500 30510 30520 30530 30540 30550 30560 30570 30580 30590 30600 30610 30620 30630 30640 30650 30660 30670 30680 30690 30700 30710 30720 30730 30740 30750 30760 30770 30780 30790 30800 30810 30820 30830 30840 30850 30860 30870 30880 30890 30900 30910 30920 30930 30940 30950 30960 30970 30980 30990 31000

PLAN & PROFILE FROM
CHAINAGE 30+000 TO 31+000



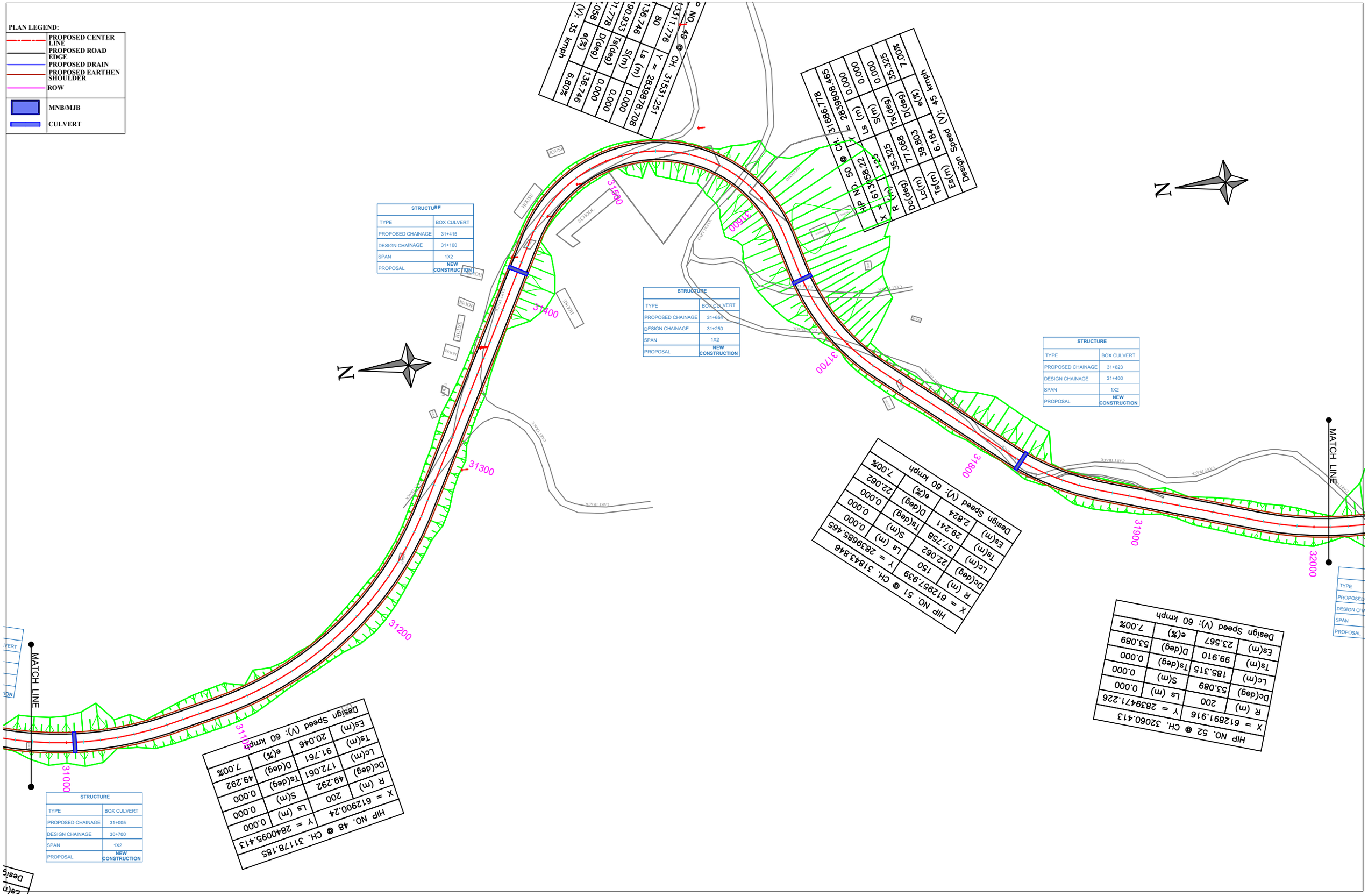
PLAN & PROFILE FROM
CHAINAGE 30+000 TO 31+000


PROFILE LEGEND :
BOX CULVERT
PIPE CULVERT
UNDERPASSES/ MNB/MJB/ FLYOVER
1360
1350
1340
1330
1320
1310
1300
1290
1280
1270
1260
BOX CULVERT 1X2M
Chainage=31087.700m
Level=1324.714m
Chainage=31308.855m
Level=1316.160m
Chainage=31690.663m
Level=1289.719m
Chainage=31840.663m
Level=1285.356m

| | | |

PLAN LEGEND:

	PROPOSED CENTER LINE
	PROPOSED ROAD EDGE
	PROPOSED DRAIN
	PROPOSED EARTHEN SHOULDER
	ROW
	MNB/MJB
	CULVERT



STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	31+415
DESIGN CHAINAGE	31+100
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	31+654
DESIGN CHAINAGE	31+250
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	31+823
DESIGN CHAINAGE	31+400
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	31+005
DESIGN CHAINAGE	30+700
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

HIP NO. 48 @ CH. 31178.185

X = 612900.24		Y = 2840095.413	
R (m)	200	Ls (m)	0.000
Dc(deg)	49.292	S(m)	0.000
Lc(m)	172.061	Ts(deg)	0.000
Ts(m)	91.761	D(deg)	49.292
Es(m)	20.046	e(%)	7.00%

Design Speed (V): 60 kmph

HIP NO. 51 @ CH. 31843.846

X = 612957.939		Y = 2839685.465	
R (m)	150	Ls (m)	0.000
Dc(deg)	22.062	S(m)	0.000
Lc(m)	57.758	Ts(deg)	0.000
Ts(m)	29.241	D(deg)	22.062
Es(m)	2.824	e(%)	7.00%

Design Speed (V): 60 kmph

HIP NO. 52 @ CH. 32060.413

X = 612891.916		Y = 2839471.226	
R (m)	200	Ls (m)	0.000
Dc(deg)	53.089	S(m)	0.000
Lc(m)	185.315	Ts(deg)	0.000
Ts(m)	99.910	D(deg)	53.089
Es(m)	23.567	e(%)	7.00%

Design Speed (V): 60 kmph

HIP NO. 49 @ CH. 31531.251

X = 612938.708		Y = 2839378.778	
R (m)	80	Ls (m)	0.000
Dc(deg)	136.746	S(m)	0.000
Lc(m)	190.933	Ts(deg)	0.000
Ts(m)	111.778	D(deg)	136.746
Es(m)	30.058	e(%)	6.80%

Design Speed (V): 35 kmph

HIP NO. 50 @ CH. 31686.778

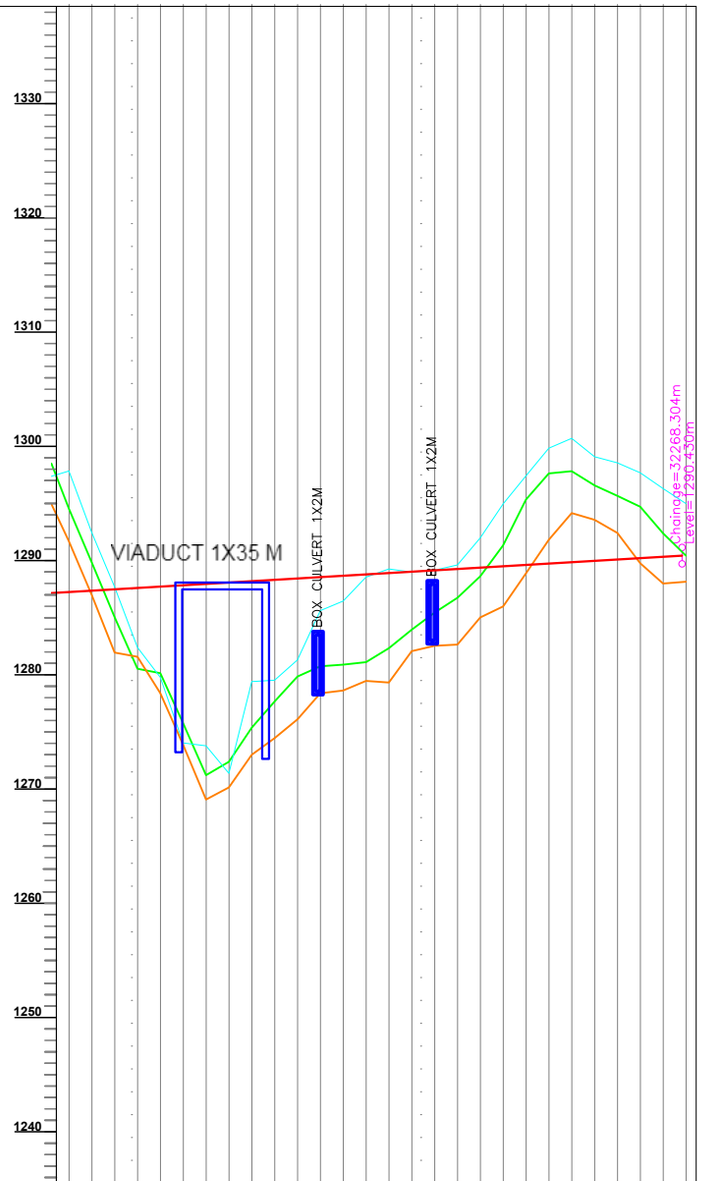
X = 612918.191		Y = 2839808.465	
R (m)	125	Ls (m)	0.000
Dc(deg)	35.325	S(m)	0.000
Lc(m)	77.098	Ts(deg)	0.000
Ts(m)	39.805	D(deg)	35.325
Es(m)	6.184	e(%)	7.00%

Design Speed (V): 45 kmph

PLAN & PROFILE FROM
CHAINAGE 31+000 TO 32+000

PROFILE LEGEND :

	BOX CULVERT
	PIPE CULVERT
	UNDERPASSES/ MNB/MJB/ FLYOVER



| | | |

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	32+159
DESIGN CHAINAGE	31+950
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	31+823
DESIGN CHAINAGE	31+400
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	31+654
DESIGN CHAINAGE	31+250
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	32+062
DESIGN CHAINAGE	31+600
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

STRUCTURE	
TYPE	BOX CULVERT
PROPOSED CHAINAGE	32+109
DESIGN CHAINAGE	31+800
SPAN	1X2
PROPOSAL	NEW CONSTRUCTION

HIP NO. 52 @ CH. 32060.413
X = 612891.916 Y = 2839471.226

R (m)	200	Ls (m)	0.000
Dc(deg)	53.089	S(m)	0.000
Lc(m)	185.315	Ts(deg)	0.000
Ts(m)	99.910	D(deg)	53.089
Es(m)	23.567	e(%)	7.00%

Design Speed (V): 60 kmph

HIP NO. 51 @ CH. 31843.846
X = 612957.939 Y = 2839685.465

R (m)	150	Ls (m)	0.000
Dc(deg)	22.062	S(m)	0.000
Lc(m)	57.758	Ts(deg)	0.000
Ts(m)	29.241	D(deg)	22.062
Es(m)	2.824	e(%)	7.00%

Design Speed (V): 60 kmph

HIP NO. 50 @ CH. 31686.778
X = 613058.22 Y = 2839808.465

R (m)	125	Ls (m)	0.000
Dc(deg)	35.325	S(m)	0.000
Lc(m)	77.068	Ts(deg)	35.325
Ts(m)	39.803	D(deg)	7.00%
Es(m)	6.184	e(%)	

Design Speed (V): 45 kmph

PLAN & PROFILE FROM
CHAINAGE 32+000 TO 32+270