

TYPE - 01

TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY (NEW CONSTRUCTION)

(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

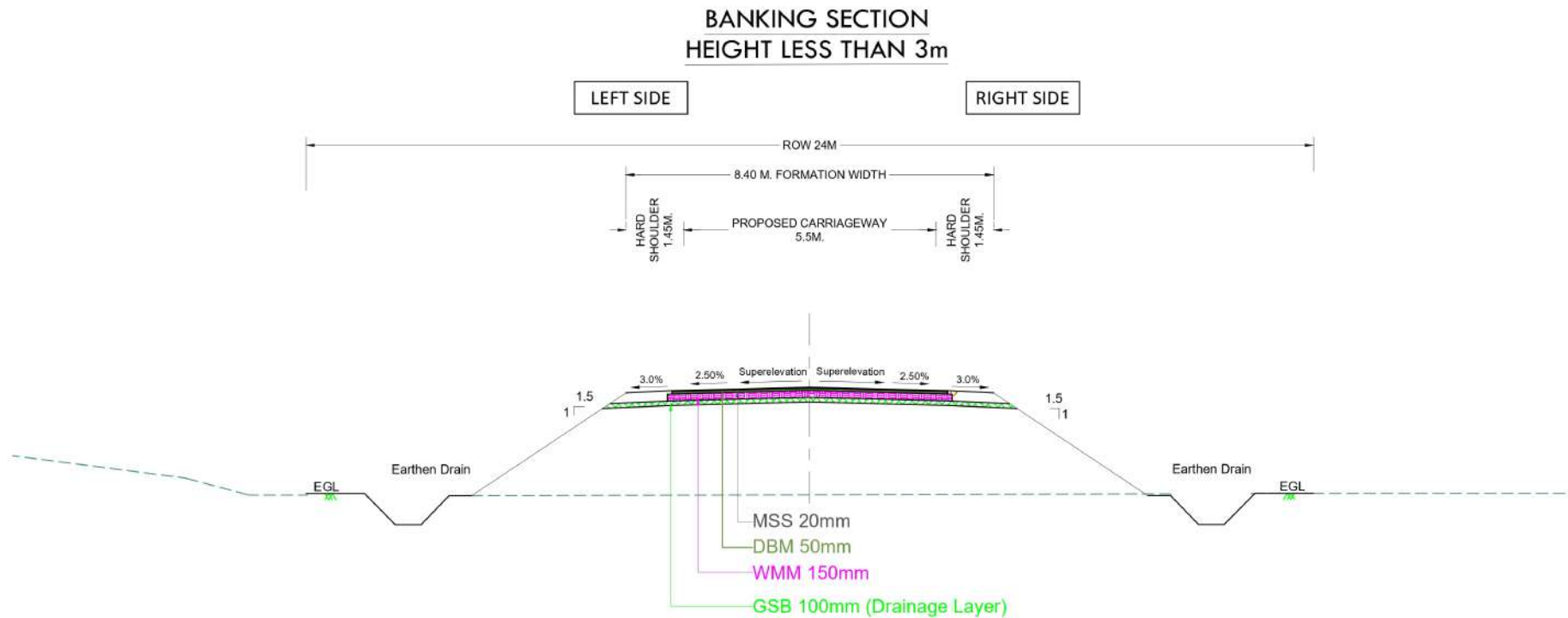


Fig. 2.9 Modified
As per IRC SP 73:
2018

NOTES:

1. ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
3. PCC M15 50MM* PROVIDED IN LIEU OF EARTHEN SHOULDER TOWARD OFF EROSION OF SOIL NEAR DRAIN WALL.

			CLIENT:		DESIGN CONSULTANT:	PROJECT:	SCALE AT A3 SIZE DRAWING	TITLE:	CLIENT APPROVAL	SIGNATURE	

TYPE - 01
TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY (NEW CONSTRUCTION)
(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type
1	0.170	0.190	0.020	1	39	17.262	17.289	0.027	1	77	28.090	28.109	0.019	1	115	41.857	41.870	0.013	1
2	1.021	1.030	0.009	1	40	17.890	17.910	0.020	1	78	28.270	28.290	0.020	1	116	42.690	42.710	0.020	1
3	1.070	1.092	0.022	1	41	17.970	18.070	0.100	1	79	29.054	29.090	0.036	1	117	44.070	44.080	0.010	1
4	1.092	1.129	0.037	1	42	18.210	18.230	0.020	1	80	29.370	29.390	0.020	1	118	44.091	44.130	0.039	1
5	1.129	1.150	0.021	1	43	20.070	20.090	0.020	1	81	29.919	29.930	0.011	1	119	44.410	44.430	0.020	1
6	1.810	1.819	0.009	1	44	20.650	20.670	0.020	1	82	31.290	31.307	0.017	1	120	44.670	44.680	0.010	1
7	2.170	2.190	0.020	1	45	20.890	20.910	0.020	1	83	31.990	32.004	0.014	1	121	44.752	44.790	0.038	1
8	2.370	2.390	0.020	1	46	20.989	21.010	0.021	1	84	32.070	32.110	0.040	1	122	45.232	45.250	0.018	1
9	3.674	3.690	0.016	1	47	21.630	21.645	0.015	1	85	32.950	32.967	0.017	1	123	45.310	45.330	0.020	1
10	3.810	3.830	0.020	1	48	22.202	22.250	0.048	1	86	33.590	33.610	0.020	1	124	45.470	45.490	0.020	1
11	4.746	4.770	0.024	1	49	22.344	22.350	0.006	1	87	33.650	33.670	0.020	1	125	45.710	45.730	0.020	1
12	6.189	6.210	0.021	1	50	22.470	22.510	0.040	1	88	33.710	33.715	0.005	1	126	45.890	45.907	0.017	1
13	6.370	6.390	0.020	1	51	22.570	22.590	0.020	1	89	33.725	33.730	0.005	1	127	45.907	45.954	0.047	1
14	6.910	6.930	0.020	1	52	23.130	23.150	0.020	1	90	34.030	34.050	0.020	1	128	45.970	45.990	0.020	1
15	7.810	7.839	0.029	1	53	23.210	23.230	0.020	1	91	34.130	34.170	0.040	1	129	46.930	46.937	0.007	1
16	7.852	7.870	0.018	1	54	24.030	24.034	0.004	1	92	34.190	34.230	0.040	1	130	46.937	46.964	0.027	1
17	8.070	8.090	0.020	1	55	24.270	24.282	0.012	1	93	34.279	34.330	0.051	1	131	46.970	46.990	0.020	1
18	8.170	8.190	0.020	1	56	24.299	24.310	0.011	1	94	34.850	34.860	0.010	1	132	47.174	47.190	0.016	1
19	8.310	8.330	0.020	1	57	24.790	24.809	0.019	1	95	35.050	35.070	0.020	1	133	47.290	47.297	0.007	1
20	8.590	8.610	0.020	1	58	24.944	24.970	0.026	1	96	35.250	35.290	0.040	1	134	47.297	47.364	0.067	1
21	8.654	8.670	0.016	1	59	25.010	25.050	0.040	1	97	35.334	35.330	-0.004	1	135	48.554	48.570	0.016	1
22	8.810	8.830	0.020	1	60	25.210	25.215	0.005	1	98	35.370	35.430	0.060	1	136	48.610	48.630	0.020	1
23	9.250	9.267	0.017	1	61	25.226	25.270	0.044	1	99	35.510	35.530	0.020	1	137	48.710	48.730	0.020	1
24	10.930	10.950	0.020	1	62	25.290	25.310	0.020	1	100	35.609	35.630	0.021	1	138	49.210	49.225	0.015	1
25	11.430	11.450	0.020	1	63	25.330	25.350	0.020	1	101	36.337	36.350	0.013	1	139	49.236	49.250	0.014	1
26	11.492	11.510	0.018	1	64	25.550	25.564	0.014	1	102	37.064	37.070	0.006	1	140	49.610	49.624	0.014	1
27	11.630	11.659	0.029	1	65	25.577	25.590	0.013	1	103	38.604	38.610	0.006	1	141	50.030	50.050	0.020	1
28	11.690	11.710	0.020	1	66	25.630	25.640	0.010	1	104	38.864	38.870	0.006	1	142	50.104	50.110	0.006	1
29	13.490	13.510	0.020	1	67	25.850	25.890	0.040	1	105	38.990	39.002	0.012	1	143	50.199	50.210	0.011	1
30	13.630	13.650	0.020	1	68	25.907	25.930	0.023	1	106	39.002	39.029	0.027	1	144	50.590	50.607	0.017	1
31	13.730	13.750	0.020	1	69	25.950	25.970	0.020	1	107	39.110	39.130	0.020	1	145	50.607	50.634	0.027	1
32	14.470	14.490	0.020	1	70	26.050	26.090	0.040	1	108	39.290	39.330	0.040	1	146	50.634	50.650	0.016	1
33	15.210	15.230	0.020	1	71	26.670	26.709	0.039	1	109	39.670	39.690	0.020	1	147	50.930	50.950	0.020	1
34	15.250	15.270	0.020	1	72	26.750	26.770	0.020	1	110	40.690	40.710	0.020	1	148	51.230	51.250	0.020	1
35	15.450	15.470	0.020	1	73	26.810	26.830	0.020	1	111	41.570	41.584	0.014	1	149	51.310	51.330	0.020	1
36	15.830	15.850	0.020	1	74	26.850	26.870	0.020	1	112	41.597	41.610	0.013	1	150	51.410	51.430	0.020	1
37	16.010	16.030	0.020	1	75	26.890	26.910	0.020	1	113	41.690	41.705	0.015	1	TOTAL LENGTH			3.201	
38	17.250	17.262	0.012	1	76	26.970	26.990	0.020	1	114	41.790	41.810	0.020	1					

 NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA, NEW DELHI - 110001			DESIGN CONSULTANT Global Infra Solutions in JV with M/s Dhruv Consultancy Service Ltd. and association with Infycons Creative Software Pvt. Ltd. 1-2, E-8/11A, Sukhgar Apartment, Trilanga Bhagel-462009 e: globalinfra@globalinfra.com web: globalinfra.com			PROJECT: CONSTRUCTION OF HUNLI TO HAYULIANG PACKAGE -01 DESIGN KM 0+000 TO KM 53+000, TOTAL DESIGN LENGTH: 53.000 KM TO INTERMEDIATE LANE CONFIGURATIONS IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE.			SCALE AT A3 SIZE DRAWING NOT TO SCALE			TITLE TYPICAL CROSS SECTION			CLIENT APPROVAL _____ _____ _____ _____		SIGNATURE _____ _____ _____ _____	
REVISIONS REV. DATE REVISIONS												DRAWING DRAWN: LK CHECKED: SJ DESIGNED: SC APPROVED: LA						

TYPE - 02

TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY(NEW CONSTRUCTION)

(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

BANKING SECTION

HEIGHT MORE THAN 3m

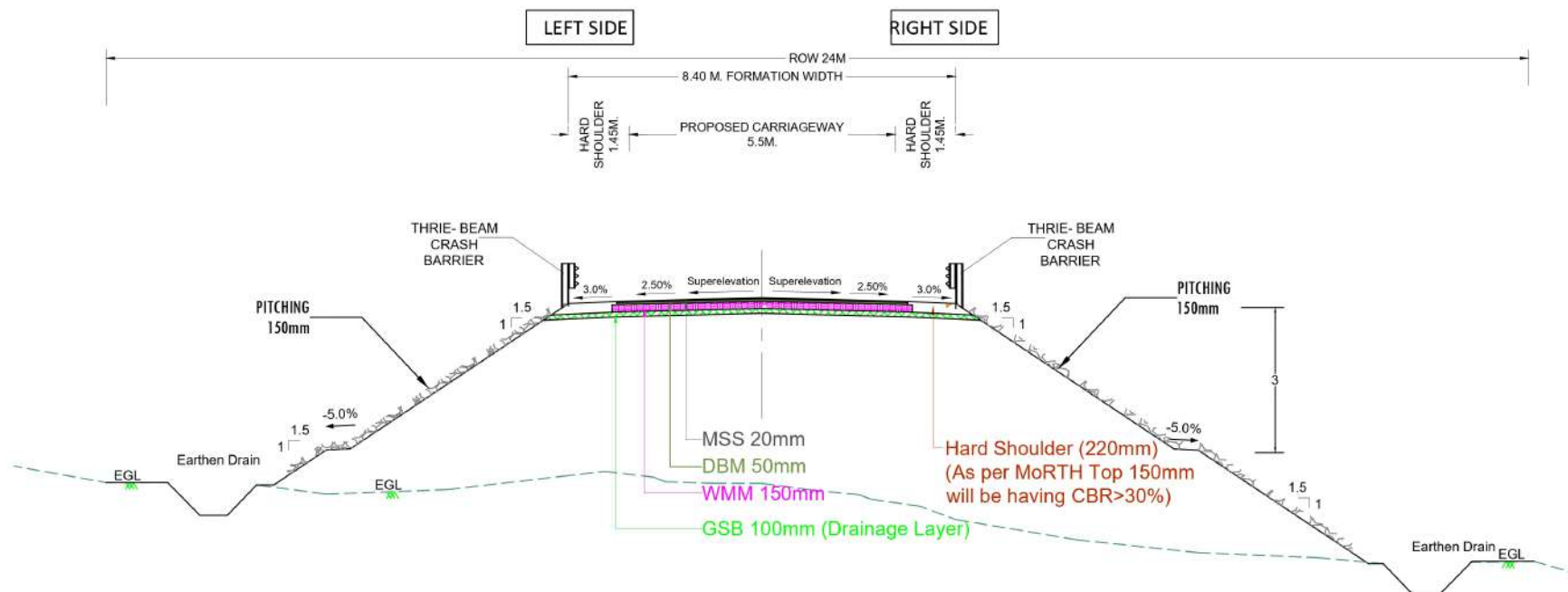


Fig. 2.9 Modified
As per IRC SP 73: 2018

Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type
1	6.030	6.050	0.020	2
2	6.150	6.162	0.012	2
3	6.162	6.189	0.027	2
4	16.414	16.430	0.016	2
5	17.470	17.490	0.020	2
6	21.950	21.959	0.009	2
7	22.557	22.570	0.013	2
8	23.110	23.130	0.020	2
9	24.330	24.342	0.012	2
10	24.342	24.369	0.027	2
11	25.050	25.059	0.009	2
12	25.470	25.479	0.009	2
13	26.027	26.050	0.023	2
14	26.910	26.927	0.017	2
15	31.259	31.270	0.011	2
16	34.090	34.110	0.020	2
17	38.370	38.374	0.004	2
18	40.410	40.417	0.007	2
19	40.670	40.690	0.020	2
20	41.650	41.670	0.020	2
21	43.850	43.854	0.004	2
22	44.730	44.739	0.009	2
23	45.190	45.210	0.020	2
24	45.954	45.970	0.016	2
25	47.030	47.050	0.020	2
26	47.084	47.090	0.006	2
27	49.810	49.822	0.012	2
TOTAL LENGTH			0.403	

NOTES:

- ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
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- PCC M15 50MM* PROVIDED IN LIEU OF EARTHEN SHOULDER TOWARD OFF EROSION OF SOIL NEAR DRAIN WALL.

CLIENT  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA, NEW DELHI - 110001			DESIGN CONSULTANT  Global Infra Solutions in JV with M/s Dhruv Consultancy Service Ltd. and association with Infycons Creative Software Pvt. Ltd. 1-2, I-8/11A, Sukhsegar Apartment, Trilanga Bhagal-462009 e: globalinfra@globalinfra.com web: globalinfra.com			PROJECT CONSTRUCTION OF HUNLI TO HAYULIANG PACKAGE -01 DESIGN KM 0+000 TO KM 53+000, TOTAL DESIGN LENGTH: 53.000 KM TO INTERMEDIATE LANE CONFIGURATIONS IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE.			SCALE AT A3 SIZE DRAWING NOT TO SCALE			TITLE TYPICAL CROSS SECTION			CLIENT APPROVAL SIGNATURE DATE LK SJ SC LA		
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TYPE - 03

TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY(NEW CONSTRUCTION) (OPEN COUNTRY -MOUNTAINOUS TERRAIN)

CUTTING SECTION CUTTING HEIGHT < 1m

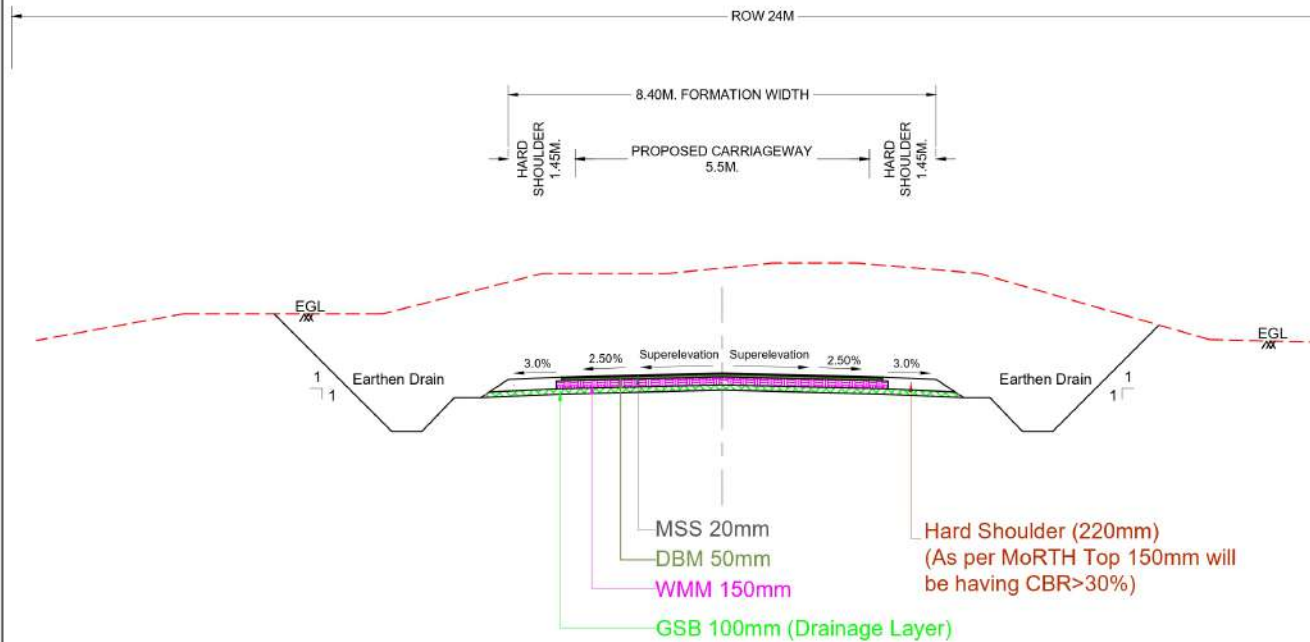


Fig. 2.9 Modified
As per IRC SP 73: 2018

NOTES:

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3. PCC M15 50MM* PROVIDED IN LIEU OF EARTHEN SHOULDER TOWARD OFF EROSION OF SOIL NEAR DRAIN WALL.

Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type
1	0.110	0.170	0.060	3	46	15.810	15.830	0.020	3
2	0.210	0.230	0.020	3	47	16.710	16.770	0.060	3
3	0.330	0.350	0.020	3	48	16.869	16.890	0.021	3
4	0.810	0.830	0.020	3	49	16.910	16.930	0.020	3
5	1.750	1.770	0.020	3	50	17.910	17.930	0.020	3
6	1.930	1.950	0.020	3	51	18.530	18.550	0.020	3
7	1.990	1.994	0.004	3	52	18.630	18.650	0.020	3
8	2.910	2.930	0.020	3	53	19.350	19.390	0.040	3
9	3.070	3.090	0.020	3	54	19.490	19.530	0.040	3
10	3.110	3.130	0.020	3	55	20.090	20.110	0.020	3
11	4.570	4.590	0.020	3	56	20.190	20.210	0.020	3
12	4.830	4.850	0.020	3	57	20.250	20.290	0.040	3
13	5.090	5.110	0.020	3	58	20.610	20.630	0.020	3
14	5.610	5.630	0.020	3	59	21.010	21.030	0.020	3
15	6.270	6.290	0.020	3	60	21.070	21.090	0.020	3
16	6.410	6.430	0.020	3	61	25.090	25.110	0.020	3
17	6.510	6.530	0.020	3	62	25.770	25.790	0.020	3
18	6.630	6.650	0.020	3	63	26.110	26.130	0.020	3
19	7.250	7.270	0.020	3	64	26.190	26.210	0.020	3
20	7.750	7.790	0.040	3	65	26.230	26.250	0.020	3
21	7.870	7.890	0.020	3	66	26.310	26.330	0.020	3
22	8.090	8.110	0.020	3	67	26.370	26.390	0.020	3
23	8.690	8.710	0.020	3	68	26.770	26.790	0.020	3
24	9.850	9.890	0.040	3	69	26.990	27.010	0.020	3
25	9.950	9.990	0.040	3	70	27.130	27.170	0.040	3
26	10.110	10.150	0.040	3	71	31.870	31.875	0.005	3
27	10.470	10.490	0.020	3	72	31.885	31.890	0.005	3
28	11.190	11.210	0.020	3	73	31.930	31.970	0.040	3
29	11.410	11.430	0.020	3	74	32.370	32.390	0.020	3
30	12.070	12.090	0.020	3	75	36.290	36.310	0.020	3
31	13.470	13.490	0.020	3	76	36.430	36.450	0.020	3
32	14.410	14.430	0.020	3	77	37.390	37.410	0.020	3
33	14.450	14.470	0.020	3	78	40.350	40.370	0.020	3
34	14.510	14.530	0.020	3	79	41.730	41.750	0.020	3
35	14.550	14.570	0.020	3	80	44.970	44.990	0.020	3
36	14.630	14.650	0.020	3	81	47.670	47.690	0.020	3
37	14.710	14.730	0.020	3	82	50.110	50.130	0.020	3
38	14.990	15.010	0.020	3	83	50.359	50.370	0.011	3
39	15.290	15.310	0.020	3	84	51.910	51.930	0.020	3
40	15.395	15.410	0.015	3	85	52.050	52.130	0.080	3
41	15.430	15.450	0.020	3	86	52.750	52.770	0.020	3
42	15.510	15.530	0.020	3	87	52.790	52.810	0.020	3
43	15.570	15.590	0.020	3	88	52.910	52.950	0.040	3
44	15.670	15.710	0.040	3	89	52.970	52.990	0.020	3
45	15.750	15.770	0.020	3	TOTAL LENGTH			2.081	

CLIENT NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA, NEW DELHI - 110001			DESIGN CONSULTANT Global Infra Solutions in JV with M/s Dhruv Consultancy Service Ltd. and association with Infycons Creative Software Pvt. Ltd. I-2, I-8/11A, Sukhsegar Apartment, Trilanga Bhagel-462009 e: globalinfra@globalinfra.com web: globalinfra.com			PROJECT CONSTRUCTION OF HUNLI TO HAYULIANG PACKAGE -01 DESIGN KM 0+000 TO KM 53+000, TOTAL DESIGN LENGTH: 53.000 KM TO INTERMEDIATE LANE CONFIGURATIONS IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE.			SCALE AT A3 SIZE DRAWING NOT TO SCALE			TITLE TYPICAL CROSS SECTION			CLIENT APPROVAL SIGNATURE: _____ DATE: _____ DRAWN LK CHECKED SJ DESIGNED SC APPROVED LA		
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TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY WITH BOTH SIDE DRAIN (NEW CONSTRUCTION)
(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

CUTTING SECTION
CUTTING HEIGHT > 1m AND LESS THAN 7m

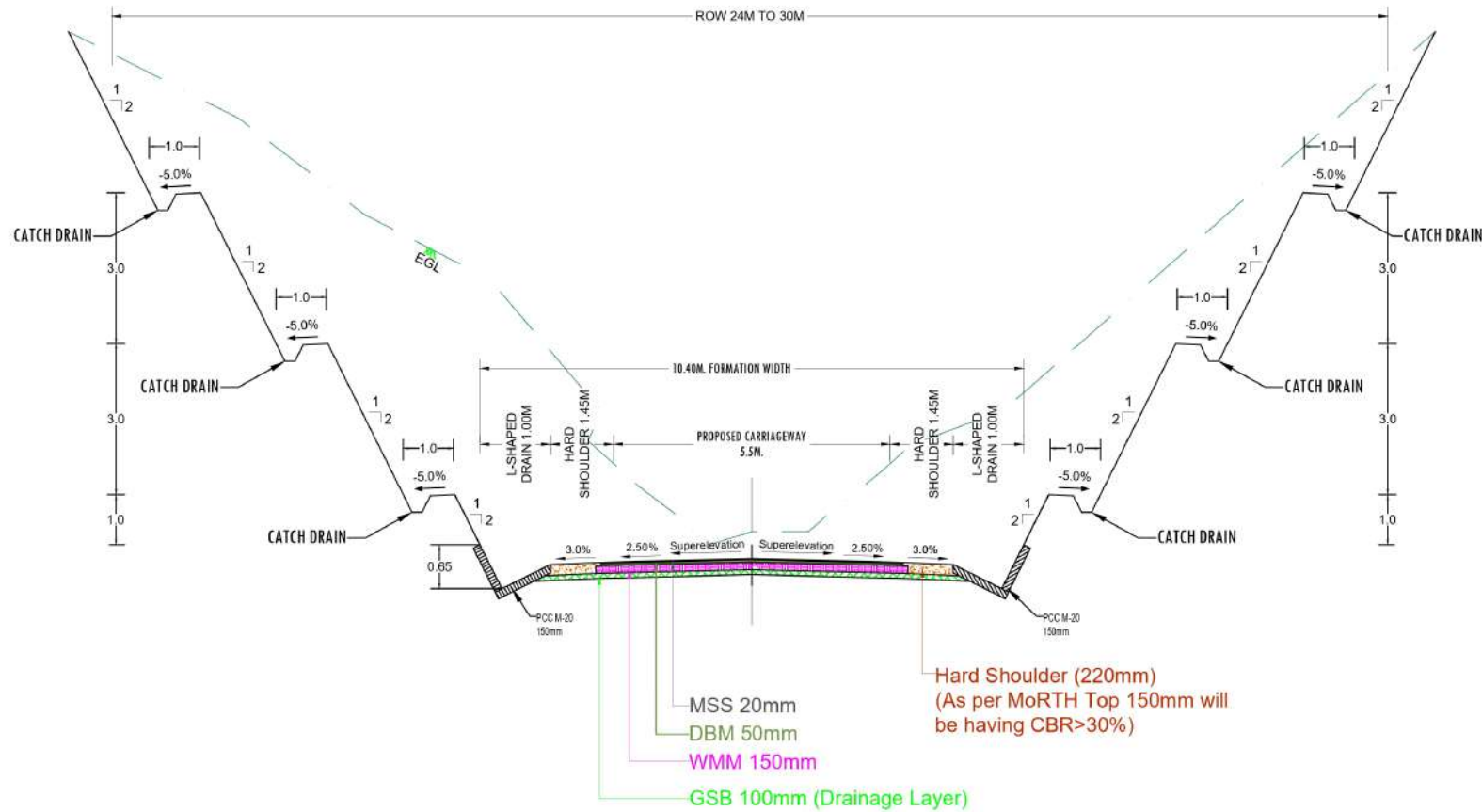


Fig. 2.9 Modified
As per IRC SP 73: 2018

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						NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA, NEW DELHI - 110001			 Global Infra Solutions in JV with M/s Dhruv Consultancy Service Ltd. and association with Infycons Creative Software Pvt. Ltd. I-2, B-11/1A, Sukhsagar Apartment, Irla Nagar, Bhopal- 462039 e: globalinfra@solutions@gmail.com web: globalinfra@solutions.org			CONSTRUCTION OF HUNLI TO HAYULIANG PACKAGE -01 DESIGN KM 0+000 TO KM 53+000, TOTAL DESIGN LENGTH: 53.000 KM TO INTERMEDIATE LANE CONFIGURATIONS IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE.			NOT TO SCALE			TYPICAL CROSS SECTION			CLIENT APPROVAL 		SIGNATURE 					
REV.			DATE			REVISIONS												DWD NO.:			DRAWN:		CHECKED:		DESIGNED:		APPROVED:	
																					LK		SJ		SC		LA	

TYPE - 04

TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY WITH BOTH SIDE DRAIN (NEW CONSTRUCTION) (OPEN COUNTRY -MOUNTAINOUS TERRAIN)

Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type
1	0.050	0.070	0.020	4	31	6.450	6.510	0.060	4	61	19.530	19.570	0.040	4
2	0.310	0.330	0.020	4	32	7.170	7.190	0.020	4	62	19.950	19.970	0.020	4
3	0.350	0.370	0.020	4	33	7.290	7.310	0.020	4	63	20.290	20.310	0.020	4
4	0.550	0.570	0.020	4	34	7.430	7.450	0.020	4	64	20.330	20.350	0.020	4
5	0.790	0.810	0.020	4	35	7.470	7.490	0.020	4	65	20.450	20.470	0.020	4
6	0.970	0.990	0.020	4	36	8.330	8.350	0.020	4	66	20.490	20.510	0.020	4
7	1.290	1.310	0.020	4	37	8.370	8.390	0.020	4	67	21.030	21.070	0.040	4
8	1.410	1.430	0.020	4	38	8.410	8.430	0.020	4	68	21.350	21.370	0.020	4
9	1.490	1.550	0.060	4	39	8.470	8.490	0.020	4	69	25.710	25.730	0.020	4
10	2.750	2.770	0.020	4	40	8.850	8.890	0.040	4	70	26.170	26.190	0.020	4
11	2.830	2.870	0.040	4	41	9.650	9.690	0.040	4	71	27.170	27.190	0.020	4
12	3.050	3.070	0.020	4	42	9.770	9.810	0.040	4	72	27.250	27.270	0.020	4
13	3.090	3.110	0.020	4	43	9.990	10.030	0.040	4	73	27.930	27.970	0.040	4
14	3.130	3.170	0.040	4	44	10.210	10.250	0.040	4	74	28.010	28.050	0.040	4
15	3.210	3.230	0.020	4	45	11.390	11.410	0.020	4	75	28.950	28.970	0.020	4
16	3.270	3.290	0.020	4	46	12.090	12.110	0.020	4	76	34.710	34.730	0.020	4
17	3.310	3.350	0.040	4	47	14.330	14.350	0.020	4	77	44.310	44.330	0.020	4
18	3.430	3.450	0.020	4	48	14.610	14.630	0.020	4	78	46.604	46.610	0.006	4
19	3.550	3.590	0.040	4	49	14.670	14.710	0.040	4	79	49.750	49.770	0.020	4
20	3.690	3.710	0.020	4	50	15.350	15.370	0.020	4	80	49.790	49.810	0.020	4
21	4.390	4.410	0.020	4	51	15.470	15.490	0.020	4	81	51.750	51.770	0.020	4
22	4.510	4.550	0.040	4	52	15.530	15.570	0.040	4	82	52.030	52.050	0.020	4
23	4.590	4.610	0.020	4	53	15.590	15.650	0.060	4	83	52.190	52.230	0.040	4
24	4.690	4.730	0.040	4	54	15.730	15.750	0.020	4	84	52.390	52.410	0.020	4
25	4.770	4.830	0.060	4	55	15.770	15.790	0.020	4	85	52.450	52.470	0.020	4
26	5.070	5.090	0.020	4	56	16.110	16.130	0.020	4	86	52.550	52.570	0.020	4
27	5.150	5.170	0.020	4	57	17.030	17.050	0.020	4	87	52.670	52.690	0.020	4
28	5.270	5.290	0.020	4	58	18.250	18.310	0.060	4	88	52.850	52.890	0.040	4
29	5.350	5.370	0.020	4	59	18.490	18.530	0.040	4	89	52.990	53.000	0.010	4
30	6.230	6.250	0.020	4	60	18.650	18.670	0.020	4	TOTAL LENGTH		2.356		

REV DATE REVISIONS	CLIENT NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA, NEW DELHI - 110001	DESIGN CONSULTANT Global Infra Solutions in JV with M/s Dhruv Consultancy Service Ltd. and association with Infycons Creative Software Pvt. Ltd. 1-2, E-8/11A, Sukhsegar Apartment, Triloka Bhagal-462009 e: globalinfra@rediffmail.com web: globalinfra.com	PROJECT CONSTRUCTION OF HUNLI TO HAYULIANG PACKAGE -01 DESIGN KM 0+000 TO KM 53+000, TOTAL DESIGN LENGTH: 53.000 KM TO INTERMEDIATE LANE CONFIGURATIONS IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE.	SCALE AT A3 SIZE DRAWING NOT TO SCALE	TITLE TYPICAL CROSS SECTION	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">CLIENT APPROVAL</td> <td colspan="2">SIGNATURE</td> </tr> <tr> <td colspan="2" style="height: 40px;"></td> <td colspan="2" style="height: 40px;"></td> </tr> <tr> <td colspan="4">DRAWING:-</td> </tr> <tr> <td>DRAWN</td> <td>CHECKED</td> <td>DESIGNED</td> <td>APPROVED</td> </tr> <tr> <td>LK</td> <td>SJ</td> <td>SC</td> <td>LA</td> </tr> </table>	CLIENT APPROVAL		SIGNATURE						DRAWING:-				DRAWN	CHECKED	DESIGNED	APPROVED	LK	SJ	SC	LA
CLIENT APPROVAL		SIGNATURE																								
DRAWING:-																										
DRAWN	CHECKED	DESIGNED	APPROVED																							
LK	SJ	SC	LA																							

TYPE - 05

TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY WITH ONE SIDE DRAIN (NEW CONSTRUCTION)

(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

CUTTING SECTION

CUTTING HEIGHT > 1m AND LESS THAN 7m

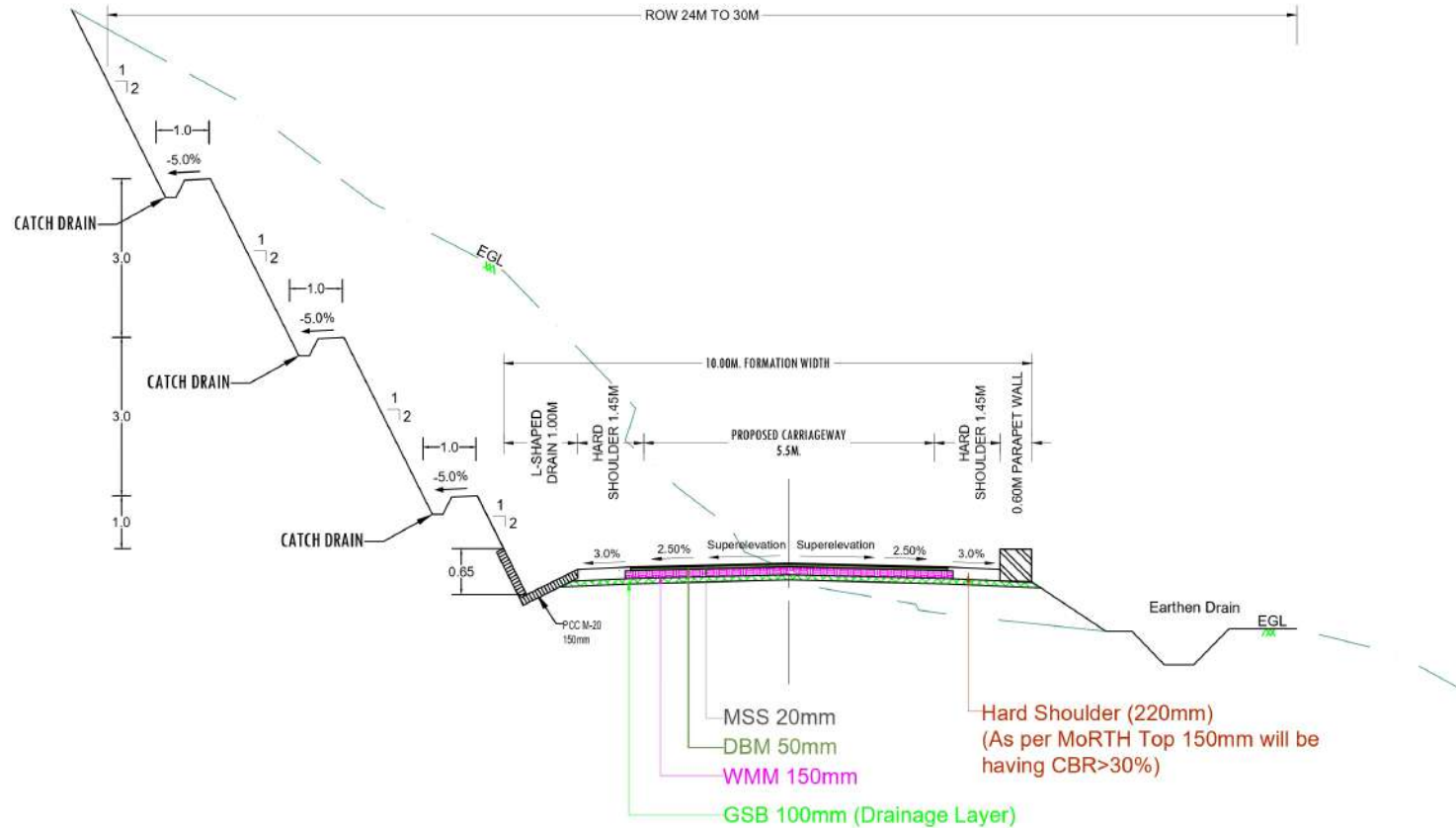


Fig. 2.9 Modified
As per IRC SP 73: 2018

NOTES:

1. ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
3. PROPOSED ONE SIDE DRAIN SHALL BE EITHER LHS OR RHS AS PER TERRAIN REQUIREMENT.

			CLIENT:	NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.		DESIGN CONSULTANT:	Global Infra Solutions	PROJECT:	CONSTRUCTION OF HUNLI TO HAYULIANG PACKAGE -01 DESIGN KM 0+000 TO KM 53+000, TOTAL DESIGN LENGTH: 53.000 KM TO INTERMEDIATE LANE CONFIGURATIONS IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE.	SCALE AT A3 SIZE DRAWING	NOT TO SCALE	TITLE:	TYPICAL CROSS SECTION	CLIENT APPROVAL		SIGNATURE		
							in JV with M/s Dhruv Consultancy Service Ltd. and association with Infycons Creative Software Pvt. Ltd.											
							1-2, I-B/11A, Sukhsagar Apartment, Trilanga, Bhopal- 462039								DRAWN:-			
							e: globalinfra@solutions@gmail.com web: globalinfra@solutions.org								CHECKED:	DESIGNED:	APPROVED:	
REV.			DATE	REVISIONS											LK	SJ	SC	LA

TYPE - 05

TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY WITH ONE SIDE DRAIN (NEW CONSTRUCTION)

(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type					
1	0.010	0.030	0.020	5	61	8.430	8.470	0.040	5	121	16.890	16.910	0.020	5	181	25.310	25.330	0.020	5	241	35.350	35.370	0.020	5	301	46.390	46.470	0.080	5															
2	0.070	0.096	0.026	5	62	8.510	8.590	0.080	5	122	17.050	17.110	0.060	5	182	25.430	25.470	0.040	5	242	35.692	35.770	0.078	5	302	46.610	46.630	0.020	5															
3	0.105	0.110	0.005	5	63	8.670	8.690	0.020	5	123	17.310	17.350	0.040	5	183	25.510	25.550	0.040	5	243	36.090	36.110	0.020	5	303	46.790	46.830	0.040	5															
4	0.290	0.310	0.020	5	64	9.030	9.070	0.040	5	124	17.450	17.470	0.020	5	184	25.590	25.630	0.040	5	244	36.270	36.290	0.020	5	304	47.050	47.067	0.017	5															
5	0.370	0.390	0.020	5	65	9.090	9.110	0.020	5	125	18.070	18.110	0.040	5	185	25.650	25.710	0.060	5	245	36.310	36.324	0.014	5	305	47.190	47.210	0.020	5															
6	0.450	0.470	0.020	5	66	9.130	9.150	0.020	5	126	18.189	18.210	0.021	5	186	25.750	25.770	0.020	5	246	36.550	36.570	0.020	5	306	47.230	47.290	0.060	5															
7	0.490	0.510	0.020	5	67	9.210	9.230	0.020	5	127	18.230	18.250	0.020	5	187	25.790	25.850	0.060	5	247	36.609	36.650	0.041	5	307	47.630	47.640	0.010	5															
8	0.570	0.590	0.020	5	68	9.630	9.650	0.020	5	128	18.450	18.490	0.040	5	188	26.130	26.170	0.040	5	248	36.970	36.990	0.020	5	308	48.130	48.170	0.040	5															
9	0.750	0.770	0.020	5	69	9.710	9.730	0.020	5	129	18.550	18.570	0.020	5	189	26.290	26.310	0.020	5	249	37.990	38.010	0.020	5	309	48.219	48.230	0.011	5															
10	0.910	0.930	0.020	5	70	9.750	9.770	0.020	5	130	18.610	18.630	0.020	5	190	26.330	26.350	0.020	5	250	38.250	38.270	0.020	5	310	48.450	48.470	0.020	5															
11	0.950	0.970	0.020	5	71	9.890	9.905	0.015	5	131	18.670	18.690	0.020	5	191	26.390	26.410	0.020	5	251	38.350	38.370	0.020	5	311	48.510	48.517	0.007	5															
12	0.990	1.010	0.020	5	72	9.915	9.930	0.015	5	132	18.710	18.730	0.020	5	192	26.510	26.610	0.100	5	252	38.450	38.470	0.020	5	312	48.630	48.650	0.020	5															
13	1.030	1.070	0.040	5	73	10.070	10.090	0.020	5	133	18.810	18.830	0.020	5	193	26.650	26.670	0.020	5	253	38.510	38.530	0.020	5	313	48.730	48.750	0.020	5															
14	1.267	1.290	0.023	5	74	10.150	10.170	0.020	5	134	18.910	19.070	0.160	5	194	26.730	26.750	0.020	5	254	38.550	38.570	0.020	5	314	48.770	48.790	0.020	5															
15	1.350	1.370	0.020	5	75	10.250	10.270	0.020	5	135	19.310	19.350	0.040	5	195	26.790	26.810	0.020	5	255	38.650	38.730	0.080	5	315	48.930	48.950	0.020	5															
16	1.390	1.410	0.020	5	76	10.350	10.370	0.020	5	136	19.390	19.410	0.020	5	196	26.830	26.850	0.020	5	256	38.750	38.770	0.020	5	316	49.030	49.050	0.020	5															
17	1.590	1.610	0.020	5	77	10.910	10.930	0.020	5	137	19.470	19.490	0.020	5	197	26.870	26.890	0.020	5	257	38.870	38.890	0.020	5	317	49.072	49.090	0.018	5															
18	1.649	1.690	0.041	5	78	10.992	11.010	0.018	5	138	19.570	19.590	0.020	5	198	26.950	26.970	0.020	5	258	38.944	38.990	0.046	5	318	49.490	49.510	0.020	5															
19	1.950	1.990	0.040	5	79	11.110	11.122	0.012	5	139	19.830	19.850	0.020	5	199	27.090	27.110	0.020	5	259	39.299	39.070	0.041	5	319	49.550	49.610	0.060	5															
20	2.007	2.030	0.023	5	80	11.122	11.149	0.027	5	140	19.889	19.930	0.041	5	200	27.970	27.990	0.020	5	260	39.130	39.150	0.020	5	320	49.650	49.670	0.020	5															
21	2.110	2.130	0.020	5	81	11.170	11.190	0.020	5	141	19.970	19.990	0.020	5	201	28.050	28.090	0.040	5	261	39.330	39.370	0.040	5	321	49.859	49.890	0.031	5															
22	2.190	2.210	0.020	5	82	11.290	11.310	0.020	5	142	20.000	20.070	0.070	5	202	28.130	28.150	0.020	5	262	39.450	39.465	0.015	5	322	49.970	50.010	0.040	5															
23	2.350	2.370	0.020	5	83	11.370	11.390	0.020	5	143	20.170	20.190	0.020	5	203	28.170	28.210	0.040	5	263	39.475	39.490	0.015	5	323	50.250	50.270	0.020	5															
24	2.390	2.410	0.020	5	84	11.450	11.470	0.020	5	144	20.230	20.250	0.020	5	204	28.230	28.270	0.040	5	264	39.830	39.850	0.020	5	324	50.290	50.310	0.020	5															
25	2.570	2.630	0.060	5	85	11.510	11.530	0.020	5	145	20.372	20.390	0.018	5	205	28.310	28.330	0.020	5	265	39.941	39.950	0.009	5	325	50.470	50.490	0.020	5															
26	2.770	2.830	0.060	5	86	11.672	11.690	0.018	5	146	20.410	20.430	0.020	5	206	28.341	28.370	0.029	5	266	40.122	40.130	0.008	5	326	50.570	50.590	0.020	5															
27	2.890	2.910	0.020	5	87	11.710	11.790	0.080	5	147	20.570	20.585	0.015	5	207	28.930	28.950	0.020	5	267	40.301	40.350	0.049	5	327	50.650	50.670	0.020	5															
28	3.250	3.270	0.020	5	88	12.730	12.770	0.040	5	148	20.595	20.610	0.015	5	208	29.350	29.370	0.020	5	268	40.570	40.590	0.020	5	328	50.730	50.770	0.040	5															
29	3.350	3.370	0.020	5	89	13.330	13.450	0.120	5	149	20.630	20.650	0.020	5	209	29.710	29.730	0.020	5	269	40.650	40.670	0.020	5	329	50.790	50.815	0.025	5															
30	3.730	3.750	0.020	5	90	13.549	13.630	0.081	5	150	20.810	20.830	0.020	5	210	29.930	29.950	0.020	5	270	40.810	40.850	0.040	5	330	50.825	50.830	0.005	5															
31	3.790	3.810	0.020	5	91	13.770	13.787	0.017	5	151	20.870	20.890	0.020	5	211	30.050	30.112	0.062	5	271	41.270	41.290	0.020	5	331	50.870	50.909	0.039	5															
32	3.830	3.850	0.020	5	92	13.787	13.834	0.047	5	152	21.110	21.130	0.020	5	212	30.270	30.290	0.020	5	272	41.630	41.650	0.020	5	332	51.110	51.150	0.040	5															
33	3.927	3.950	0.023	5	93	13.850	13.890	0.040	5	153	21.230	21.270	0.040	5	213	30.450	30.470	0.020	5	273	41.716	41.730	0.014	5	333	51.190	51.230	0.040	5															
34	4.030	4.090	0.060	5	94	13.910	13.972	0.062	5	154	21.670	21.690	0.020	5	214	30.492	30.510	0.018	5	274	41.810	41.830	0.020	5	334	51.430	51.450	0.020	5															
35	4.130	4.190	0.060	5	95	13.972	14.019	0.047	5	155	21.750	21.790	0.040	5	215	30.750	30.765	0.015	5	275	41.870	41.890	0.020	5	335	51.770	51.850	0.080	5															
36	4.430	4.470	0.040	5	96	14.050	14.070	0.020	5	156	21.890	21.950	0.060	5	216	31.059	31.070	0.011	5	276	42.059	42.070	0.011																					

TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY(NEW CONSTRUCTION)
(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type
1	1.690	1.750	0.060	6	56	21.530	21.550	0.020	6	111	31.810	31.870	0.060	6	166	40.150	40.170	0.020	6	221	47.970	48.110	0.140	6
2	1.770	1.810	0.040	6	57	21.610	21.630	0.020	6	112	32.190	32.270	0.080	6	167	40.470	40.490	0.020	6	222	48.250	48.290	0.040	6
3	1.850	1.930	0.080	6	58	21.710	21.730	0.020	6	113	32.390	32.430	0.040	6	168	40.870	40.910	0.040	6	223	48.310	48.350	0.040	6
4	2.030	2.050	0.020	6	59	22.110	22.150	0.040	6	114	32.470	32.490	0.020	6	169	40.970	40.990	0.020	6	224	48.390	48.430	0.040	6
5	2.070	2.090	0.020	6	60	22.370	22.450	0.080	6	115	32.507	32.530	0.023	6	170	41.094	41.110	0.016	6	225	48.470	48.490	0.020	6
6	2.210	2.250	0.040	6	61	22.610	22.650	0.040	6	116	32.602	32.610	0.008	6	171	41.230	41.250	0.020	6	226	48.790	48.830	0.040	6
7	2.270	2.290	0.020	6	62	22.970	22.990	0.020	6	117	32.770	32.790	0.020	6	172	41.370	41.390	0.020	6	227	48.850	48.870	0.020	6
8	2.970	3.010	0.040	6	63	23.050	23.070	0.020	6	118	32.910	32.950	0.040	6	173	41.410	41.430	0.020	6	228	48.890	48.930	0.040	6
9	3.030	3.050	0.020	6	64	23.310	23.410	0.100	6	119	33.010	33.017	0.007	6	174	41.450	41.490	0.040	6	229	48.950	48.985	0.035	6
10	3.490	3.510	0.020	6	65	23.610	23.670	0.060	6	120	33.190	33.290	0.100	6	175	41.512	41.570	0.058	6	230	49.130	49.210	0.080	6
11	4.410	4.430	0.020	6	66	23.690	23.710	0.020	6	121	33.310	33.370	0.060	6	176	41.610	41.630	0.020	6	231	49.270	49.310	0.040	6
12	4.470	4.490	0.020	6	67	23.790	23.870	0.080	6	122	33.510	33.550	0.040	6	177	41.890	41.910	0.020	6	232	49.330	49.490	0.160	6
13	4.850	4.870	0.020	6	68	23.910	23.930	0.020	6	123	33.830	33.850	0.020	6	178	41.970	41.990	0.020	6	233	49.510	49.550	0.040	6
14	4.950	5.010	0.060	6	69	23.990	24.010	0.020	6	124	34.370	34.410	0.040	6	179	42.070	42.090	0.020	6	234	49.670	49.750	0.080	6
15	5.030	5.050	0.020	6	70	24.170	24.210	0.040	6	125	34.450	34.490	0.040	6	180	42.250	42.270	0.020	6	235	49.770	49.790	0.020	6
16	5.110	5.130	0.020	6	71	24.230	24.250	0.020	6	126	34.530	34.550	0.020	6	181	42.310	42.330	0.020	6	236	49.890	49.970	0.080	6
17	5.290	5.310	0.020	6	72	24.510	24.790	0.280	6	127	34.590	34.610	0.020	6	182	42.370	42.410	0.040	6	237	50			

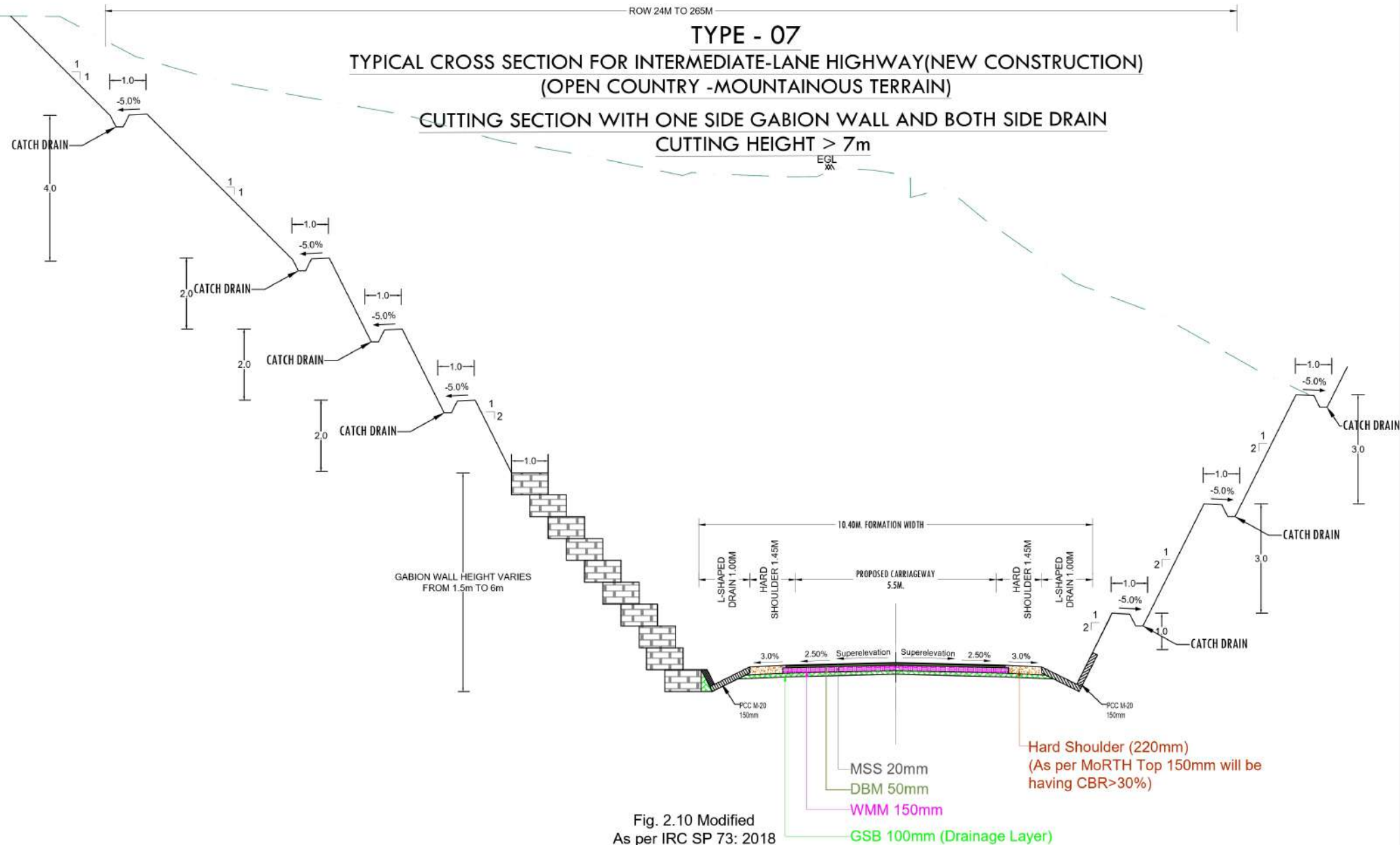
 MIDCEL INFRASTRUCTURE. GROW BUILT.			 Global Infra Solutions in JV with M/s Dhruv Consultancy Service Ltd. and association with Infycons Creative Software Pvt. Ltd. 1-2, L-8/11A, Sukhsagar Apartment, Triloka, Bhagal - 462039 e: globalinfraresolutions@gmail.com web: globalinfraresolutions.org			CONSTRUCTION OF HUNLI TO HAYULIANG PACKAGE -01 DESIGN KM 0+000 TO KM 53+000, TOTAL DESIGN LENGTH: 53.000 KM TO INTERMEDIATE LANE CONFIGURATIONS IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE.			SCALE AT A3 SIZE DRAWING NOT TO SCALE			TITLE TYPICAL CROSS SECTION			CLIENT APPROVAL 		SIGNATURE 	
REV. DATE REVISIONS			DRAWING NO. -			DRAWING		CHECKED		DESIGNED		APPROVED						
			LK		SJ		SC		LA									

TYPE - 07

TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY(NEW CONSTRUCTION)
(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

CUTTING SECTION WITH ONE SIDE GABION WALL AND BOTH SIDE DRAIN

CUTTING HEIGHT > 7m



1. ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
3. PROPOSED ONE SIDE BREAST WALL SHALL BE EITHER LHS OR RHS AS PER TERRAIN REQUIREMENT.
4. BREAST WALL PROPOSED TO LIMIT THE PROPOSED ROW & SLOPE PROTECTION IN CUT SECTION.

Fig. 2.10 Modified
As per IRC SP 73: 2018

			CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA. NEW DELHI - 110001			DESIGN CONSULTANT:  Global Infra Solutions in JV with M/s Dhruv Consultancy Service Ltd. and association with Infycons Creative Software Pvt. Ltd. I-2, B-11/1A, Sukhsagar Apartment, Irlanga, Bhopal- 462039 e: globalinfraolutions@gmail.com web: globalinfraolutions.org			PROJECT: CONSTRUCTION OF HUNLI TO HAYULIANG PACKAGE -01 DESIGN KM 0+000 TO KM 53+000, TOTAL DESIGN LENGTH: 53.000 KM TO INTERMEDIATE LANE CONFIGURATIONS IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE.			SCALE AT A3 SIZE DRAWING NOT TO SCALE			TITLE TYPICAL CROSS SECTION			CLIENT APPROVAL		SIGNATURE	
REV. DATE REVISIONS												DRAWN:- CRANK: LK CHECKED: SJ DESIGNED: SC APPROVED: LA									

TYPE - 07
TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY(NEW CONSTRUCTION)
(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type
1	0.030	0.050	0.020	7	31	7.570	7.590	0.020	7	61	27.310	27.330	0.020	7
2	1.310	1.350	0.040	7	32	7.710	7.730	0.020	7	62	27.710	27.890	0.180	7
3	1.430	1.490	0.060	7	33	8.950	8.970	0.020	7	63	27.990	28.010	0.020	7
4	1.550	1.590	0.040	7	34	9.830	9.850	0.020	7	64	28.430	28.450	0.020	7
5	2.630	2.750	0.120	7	35	10.030	10.050	0.020	7	65	31.590	31.610	0.020	7
6	2.870	2.890	0.020	7	36	10.090	10.110	0.020	7	66	32.350	32.370	0.020	7
7	2.930	2.970	0.040	7	37	10.170	10.190	0.020	7	67	34.610	34.630	0.020	7
8	3.010	3.030	0.020	7	38	10.490	10.510	0.020	7	68	34.650	34.670	0.020	7
9	3.170	3.210	0.040	7	39	10.550	10.570	0.020	7	69	34.910	34.930	0.020	7
10	3.290	3.310	0.020	7	40	10.750	10.770	0.020	7	70	36.070	36.090	0.020	7
11	3.450	3.490	0.040	7	41	12.110	12.310	0.200	7	71	38.070	38.090	0.020	7
12	3.530	3.550	0.020	7	42	12.510	12.670	0.160	7	72	38.170	38.190	0.020	7
13	3.590	3.630	0.040	7	43	13.270	13.290	0.020	7	73	46.090	46.110	0.020	7
14	3.710	3.730	0.020	7	44	14.590	14.610	0.020	7	74	46.310	46.330	0.020	7
15	3.950	3.970	0.020	7	45	18.310	18.330	0.020	7	75	47.210	47.230	0.020	7
16	4.490	4.510	0.020	7	46	18.350	18.370	0.020	7	76	48.430	48.450	0.020	7
17	4.610	4.690	0.080	7	47	18.390	18.430	0.040	7	77	49.310	49.330	0.020	7
18	5.010	5.030	0.020	7	48	19.450	19.470	0.020	7	78	51.490	51.690	0.200	7
19	5.050	5.070	0.020	7	49	19.930	19.950	0.020	7	79	51.710	51.750	0.040	7
20	5.130	5.150	0.020	7	50	20.210	20.230	0.020	7	80	51.970	52.030	0.060	7
21	5.170	5.210	0.040	7	51	20.310	20.330	0.020	7	81	52.150	52.190	0.040	7
22	5.250	5.270	0.020	7	52	20.470	20.490	0.020	7	82	52.230	52.310	0.080	7
23	5.650	5.690	0.040	7	53	20.550	20.570	0.020	7	83	52.410	52.450	0.040	7
24	6.430	6.450	0.020	7	54	20.830	20.870	0.040	7	84	52.470	52.550	0.080	7
25	6.650	6.690	0.040	7	55	21.330	21.350	0.020	7	85	52.690	52.750	0.060	7
26	6.790	6.810	0.020	7	56	23.590	23.610	0.020	7	86	52.810	52.830	0.020	7
27	6.950	6.970	0.020	7	57	27.030	27.050	0.020	7	TOTAL LENGTH		3.220		
28	7.150	7.170	0.020	7	58	27.070	27.090	0.020	7					
29	7.190	7.230	0.040	7	59	27.190	27.250	0.060	7					
30	7.310	7.430	0.120	7	60	27.270	27.290	0.020	7					

REV	DATE	REVISIONS	CLIENT NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA, NEW DELHI - 110001	DESIGN CONSULTANT Global Infra Solutions in JV with M/s Dhruv Consultancy Service Ltd. and association with Infycons Creative Software Pvt. Ltd. I-2, I-8/11A, Sukhagar Apartment, Triloka Bhagel-462009 e: globalinfra@infra.com web: globalinfra.com	PROJECT CONSTRUCTION OF HUNLI TO HAYULIANG PACKAGE -01 DESIGN KM 0+000 TO KM 53+000, TOTAL DESIGN LENGTH: 53.000 KM TO INTERMEDIATE LANE CONFIGURATIONS IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE.	SCALE AT A3 SIZE DRAWING NOT TO SCALE	TITLE TYPICAL CROSS SECTION	CLIENT APPROVAL 	SIGNATURE
			DESIGNED- DRAWN-		CHECKED- DESIGNED- APPROVED-				
			LK		SJ		SC		LA

TYPE - 09
TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY(NEW CONSTRUCTION)
(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

BANKING SECTION WITH RETAINING WALL IN ONE SIDE
HEIGHT MORE THAN 3m

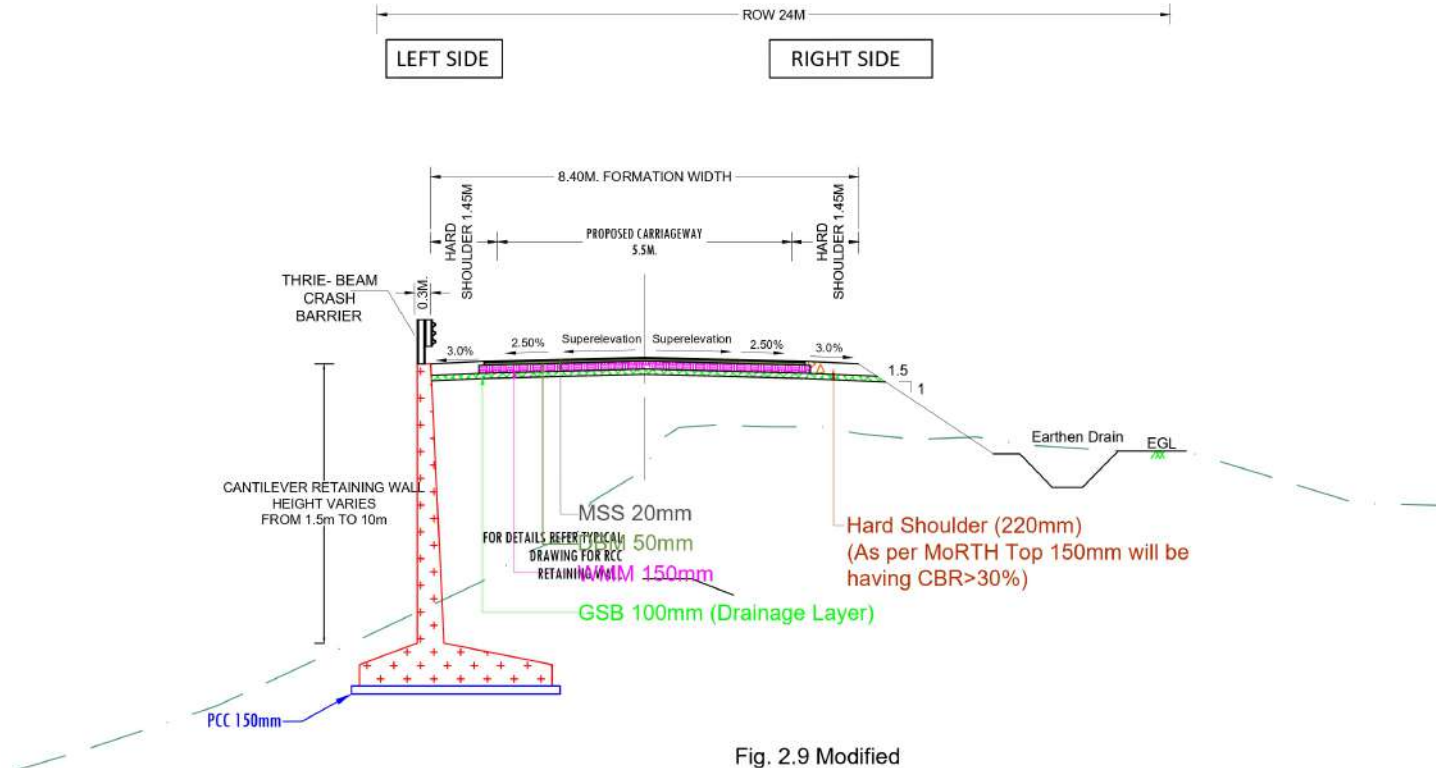


Fig. 2.9 Modified
As per IRC SP 73:
2018

NOTES:

1. ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
3. PCC M15 50MM* PROVIDED IN LIEU OF EARTHEN SHOULDER TOWARD OFF EROSION OF SOIL NEAR DRAIN WALL.

CLIENT			DESIGN CONSULTANT			PROJECT			SCALE AT A3 SIZE DRAWING			TITLE			CLIENT APPROVAL		
 NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA, NEW DELHI - 110001			 Global Infra Solutions in JV with M/s Dhruv Consultancy Service Ltd. and association with Infycons Creative Software Pvt. Ltd. 1-2, I-8/11A, Sukhsegar Apartment, Trilanga Bhagal-462009 e: globalinfra@infra.com web: globalinfra.com			CONSTRUCTION OF HUNLI TO HAYULIANG PACKAGE -01 DESIGN KM 0+000 TO KM 53+000, TOTAL DESIGN LENGTH: 53.000 KM TO INTERMEDIATE LANE CONFIGURATIONS IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE.			NOT TO SCALE			TYPICAL CROSS SECTION			SIGNATURE		
DRAWING			DRAWING			DRAWING			DRAWING			DRAWING			DRAWING		
LK			SJ			SC			LA								

(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	
1	1.170	1.177	0.007	9	41	18.830	18.850	0.020	9	81	33.382	33.409	0.027	9	121	43.650	43.662	0.012	9	
2	1.177	1.214	0.037	9	42	19.254	19.270	0.016	9	82	33.610	33.622	0.012	9	122	43.662	43.729	0.067	9	
3	1.610	1.622	0.012	9	43	19.610	19.630	0.020	9	83	34.070	34.090	0.020	9	123	44.450	44.464	0.014	9	
4	1.622	1.649	0.027	9	44	20.910	20.930	0.020	9	84	34.490	34.497	0.007	9	124	44.477	44.490	0.013	9	
5	2.157	2.170	0.013	9	45	21.150	21.170	0.020	9	85	35.229	35.230	0.001	9	125	44.810	44.819	0.009	9	
6	2.339	2.350	0.011	9	46	21.655	21.670	0.015	9	86	35.290	35.297	0.007	9	126	45.210	45.219	0.009	9	
7	2.410	2.432	0.022	9	47	22.290	22.327	0.037	9	87	35.430	35.450	0.020	9	127	45.670	45.682	0.012	9	
8	3.750	3.754	0.004	9	48	23.104	23.110	0.006	9	88	35.450	35.477	0.027	9	128	45.730	45.744	0.014	9	
9	4.730	4.735	0.005	9	49	23.150	23.170	0.020	9	89	35.477	35.504	0.027	9	129	46.030	46.049	0.019	9	
10	6.010	6.030	0.020	9	50	23.230	23.250	0.020	9	90	35.504	35.510	0.006	9	130	46.062	46.070	0.008	9	
11	6.129	6.150	0.021	9	51	24.310	24.330	0.020	9	91	35.530	35.582	0.052	9	131	46.964	46.970	0.006	9	
12	8.154	8.170	0.016	9	52	24.369	24.410	0.041	9	92	35.582	35.609	0.027	9	132	47.110	47.130	0.020	9	
13	8.230	8.250	0.020	9	53	24.822	24.830	0.008	9	93	35.670	35.679	0.009	9	133	47.130	47.150	0.020	9	
14	8.250	8.267	0.017	9	54	24.910	24.927	0.017	9	94	36.570	36.582	0.012	9	134	48.170	48.172	0.002	9	
15	8.284	8.310	0.026	9	55	25.350	25.362	0.012	9	95	36.582	36.609	0.027	9	135	48.172	48.219	0.047	9	
16	8.790	8.810	0.020	9	56	25.362	25.409	0.047	9	96	37.070	37.090	0.020	9	136	48.650	48.662	0.012	9	
17	9.015	9.030	0.015	9	57	25.890	25.894	0.004	9	97	37.442	37.450	0.008	9	137	48.662	48.689	0.027	9	
18	9.370	9.390	0.020	9	58	25.970	25.990	0.020	9	98	37.969	37.990	0.021	9	138	48.689	48.710	0.021	9	
19	11.149	11.170	0.021	9	59	25.990	26.014	0.024	9	99	38.430	38.450	0.020	9	139	49.050	49.059	0.009	9	
20	11.470	11.479	0.009	9	60	26.090	26.110	0.020	9	100	38.500	38.510	0.010	9	140	49.637	49.650	0.013	9	
21	11.790	11.832	0.042	9	61	26.410	26.430	0.020	9	101	38.570	38.577	0.007	9	141	50.150	50.162	0.012	9	
22	11.869	11.910	0.041	9	62	26.944	26.950	0.006	9	102	38.577	38.604	0.027	9	142	50.922	50.930	0.008	9	
23	11.930	11.942	0.012	9	63	28.150	28.170	0.020	9	103	38.790	38.810	0.020	9	143	51.034	51.070	0.036	9	
24	11.942	12.009	0.067	9	64	28.290	28.310	0.020	9	104	38.810	38.817	0.007	9	144	51.250	51.262	0.012	9	
25	12.050	12.070	0.020	9	65	29.010	29.030	0.020	9	105	38.817	38.864	0.047	9	145	51.262	51.289	0.027	9	
26	12.770	12.817	0.047	9	66	29.030	29.037	0.007	9	106	39.104	39.110	0.006	9	146	51.330	51.337	0.007	9	
27	12.817	12.864	0.047	9	67	29.150	29.164	0.014	9	107	39.170	39.182	0.012	9	147	51.337	51.364	0.027	9	
28	13.530	13.532	0.002	9	68	29.177	29.190	0.013	9	108	39.182	39.249	0.067	9	148	51.364	51.390	0.026	9	
29	14.090	14.110	0.020	9	69	29.210	29.270	0.060	9	109	39.270	39.290	0.020	9	TOTAL LENGTH			3.117		
30	14.210	14.230	0.020	9	70	29.670	29.679	0.009	9	110	40.090	40.109	0.019	9						
31	14.250	14.270	0.020	9	71	30.210	30.230	0.020	9	111	40.270	40.290	0.020	9						
32	15.850	15.850	0.000	9	72	30.999	31.010	0.011	9	112	40.390	40.410	0.020	9						
33	15.860	15.870	0.010	9	73	31.390	31.397	0.007	9	113	40.710	40.727	0.017	9						
34	15.910	15.950	0.040	9	74	31.397	31.464	0.067	9	114	40.727	40.754	0.027	9						
35	17.190	17.250	0.060	9	75	31.464	31.470	0.006	9	115	41.830	41.844	0.014	9						
36	17.490	17.545	0.055	9	76	32.110	32.117	0.007	9	116	41.990	42.012	0.022	9						
37	17.555	17.590	0.035	9	77	32.117	32.164	0.047	9	117	42.012	42.059	0.047	9						
38	17.964	17.970	0.006	9	78	32.164	32.170	0.006	9	118	42.610	42.627	0.017	9						
39	18.110	18.122	0.012	9	79	33.050	33.070	0.020	9	119	42.627	42.674	0.047	9						
40	18.122	18.189	0.067	9	80	33.370	33.382	0.012	9	120	43.490	43.510	0.020	9						

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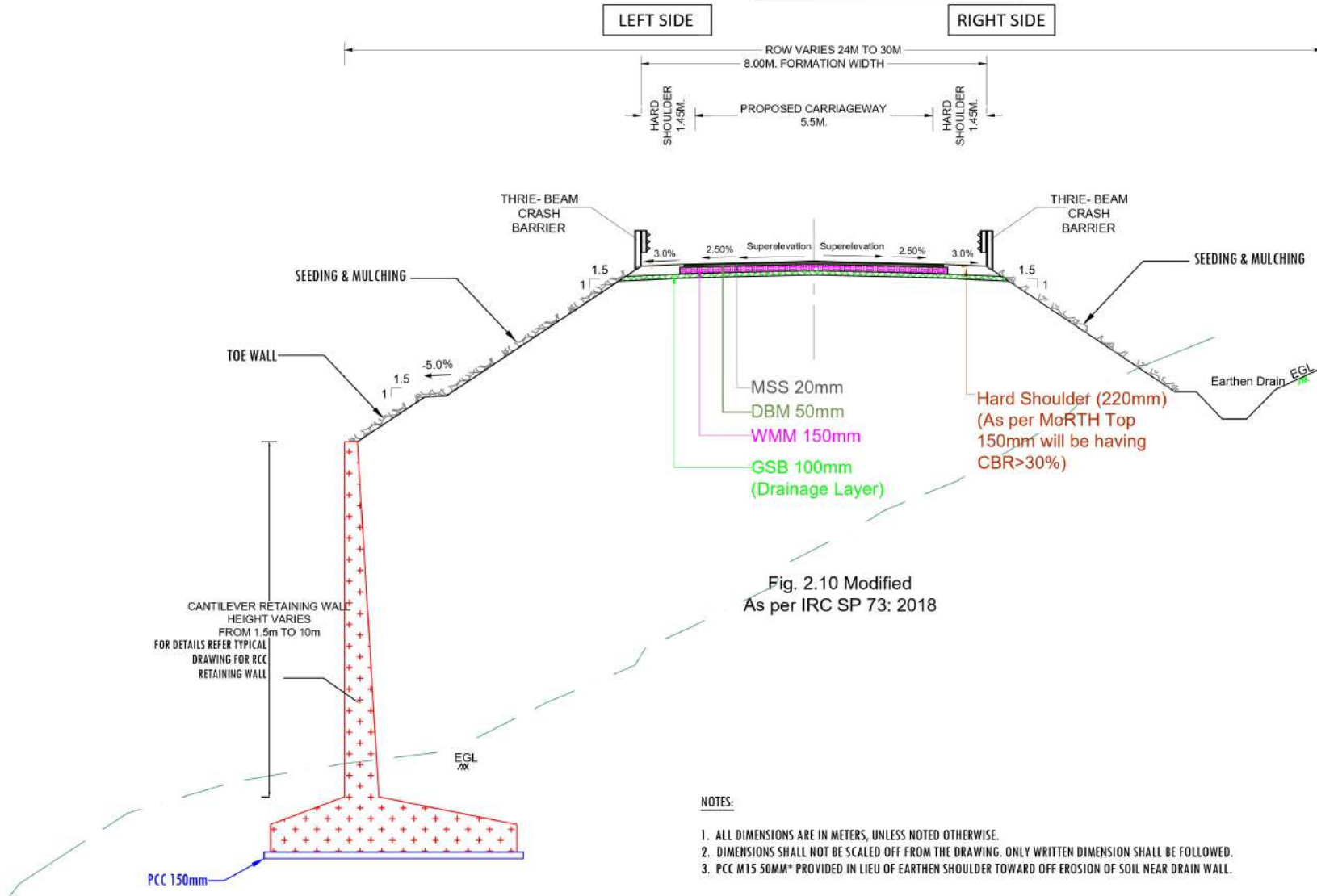
TYPE - 10

TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY(NEW CONSTRUCTION)

(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

BANKING SECTION WITH RETAINING WALL IN ONE SIDE OFFSET FROM SHOULDER

HEIGHT MORE THAN 3m



Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type
1	1.250	1.254	0.004	10
2	6.990	6.997	0.007	10
3	6.997	7.024	0.027	10
4	7.050	7.057	0.007	10
5	7.057	7.094	0.037	10
6	11.910	11.930	0.020	10
7	12.009	12.050	0.041	10
8	17.930	17.937	0.007	10
9	17.937	17.964	0.027	10
10	22.059	22.070	0.011	10
11	23.250	23.252	0.002	10
12	23.252	23.279	0.027	10
13	24.430	24.432	0.002	10
14	24.432	24.499	0.067	10
15	26.270	26.290	0.020	10
16	31.010	31.032	0.022	10
17	31.032	31.059	0.027	10
18	31.130	31.147	0.017	10
19	31.147	31.194	0.047	10
20	31.324	31.330	0.006	10
21	33.970	33.987	0.017	10
22	34.250	34.262	0.012	10
23	37.255	37.270	0.015	10
24	37.410	37.429	0.019	10
25	39.070	39.077	0.007	10
26	39.077	39.104	0.027	10
27	39.249	39.270	0.021	10
28	39.690	39.697	0.007	10
29	39.697	39.724	0.027	10
30	40.434	40.450	0.016	10
31	45.550	45.562	0.012	10
32	45.562	45.589	0.027	10
33	46.470	46.492	0.022	10
34	46.492	46.559	0.067	10
35	47.150	47.157	0.007	10
36	50.310	50.330	0.020	10
TOTAL LENGTH			0.748	

NOTES:

1. ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
3. PCC M15 50mm* PROVIDED IN LIEU OF EARTHEN SHOULDER TOWARD OFF EROSION OF SOIL NEAR DRAIN WALL.

TYPE - 11

TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY(NEW CONSTRUCTION) (OPEN COUNTRY -MOUNTAINOUS TERRAIN)

BANKING SECTION WITH RETAINING WALL IN BOTH SIDE HEIGHT MORE THAN 3m

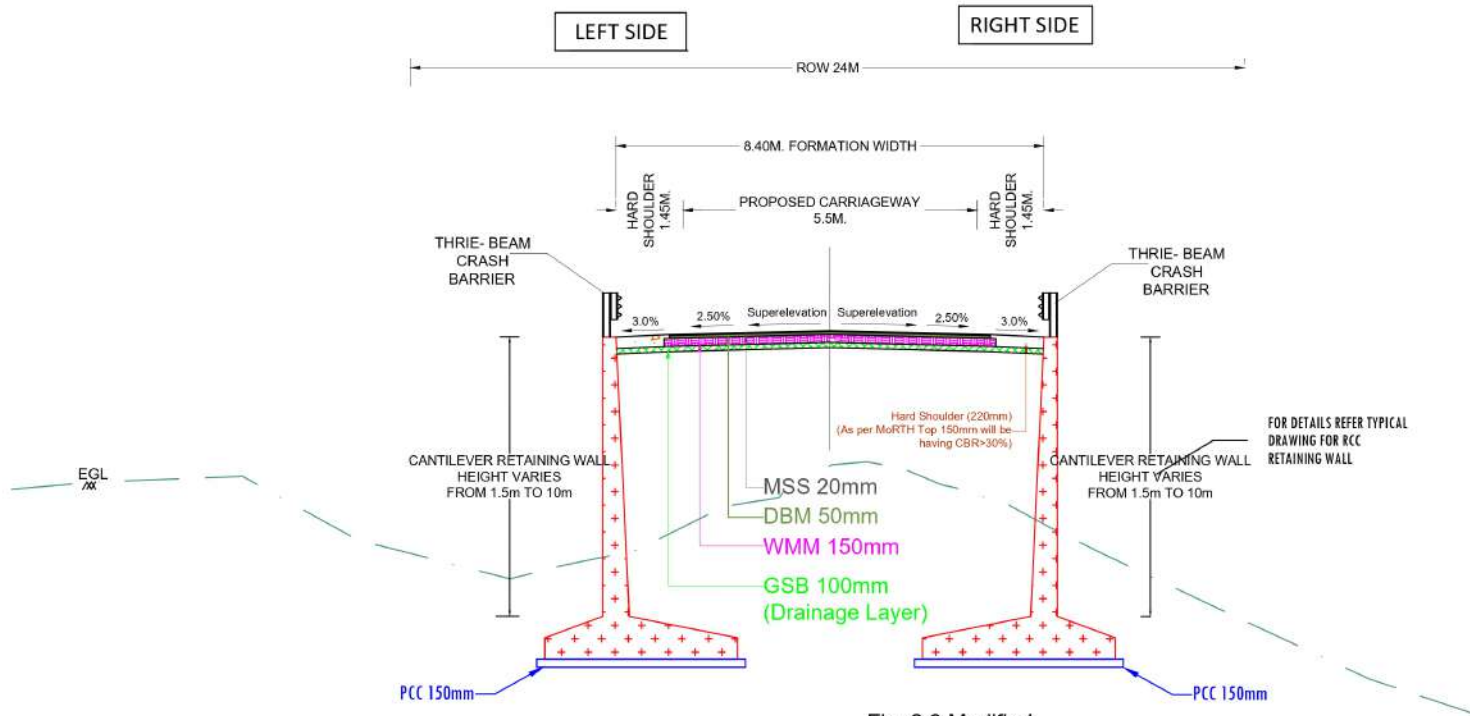


Fig. 2.9 Modified
As per IRC SP 73: 2018

NOTES:

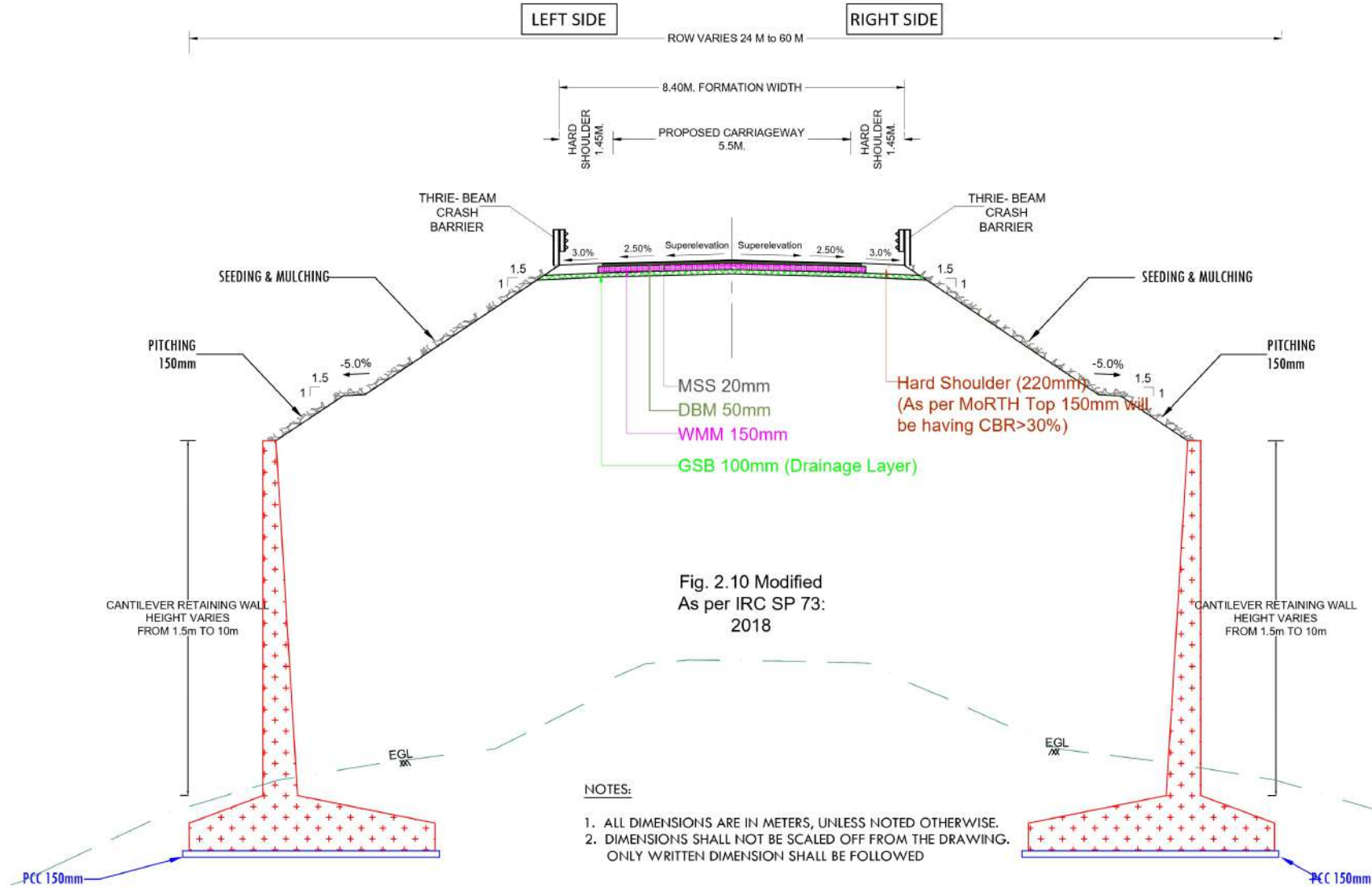
1. ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
3. PCC M15 50MM* PROVIDED IN LIEU OF EARTHEN SHOULDER TOWARD OFF EROSION OF SOIL NEAR DRAIN WALL.

Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type
1	3.630	3.637	0.007	11
2	3.637	3.674	0.037	11
3	17.159	17.190	0.031	11
4	19.630	19.642	0.012	11
5	19.642	19.669	0.027	11
6	29.270	29.292	0.022	11
7	29.309	29.330	0.021	11
8	34.024	34.030	0.006	11
9	35.190	35.202	0.012	11
10	35.202	35.229	0.027	11
11	36.110	36.122	0.012	11
12	36.122	36.149	0.027	11
13	37.930	37.932	0.002	11
TOTAL LENGTH			0.243	

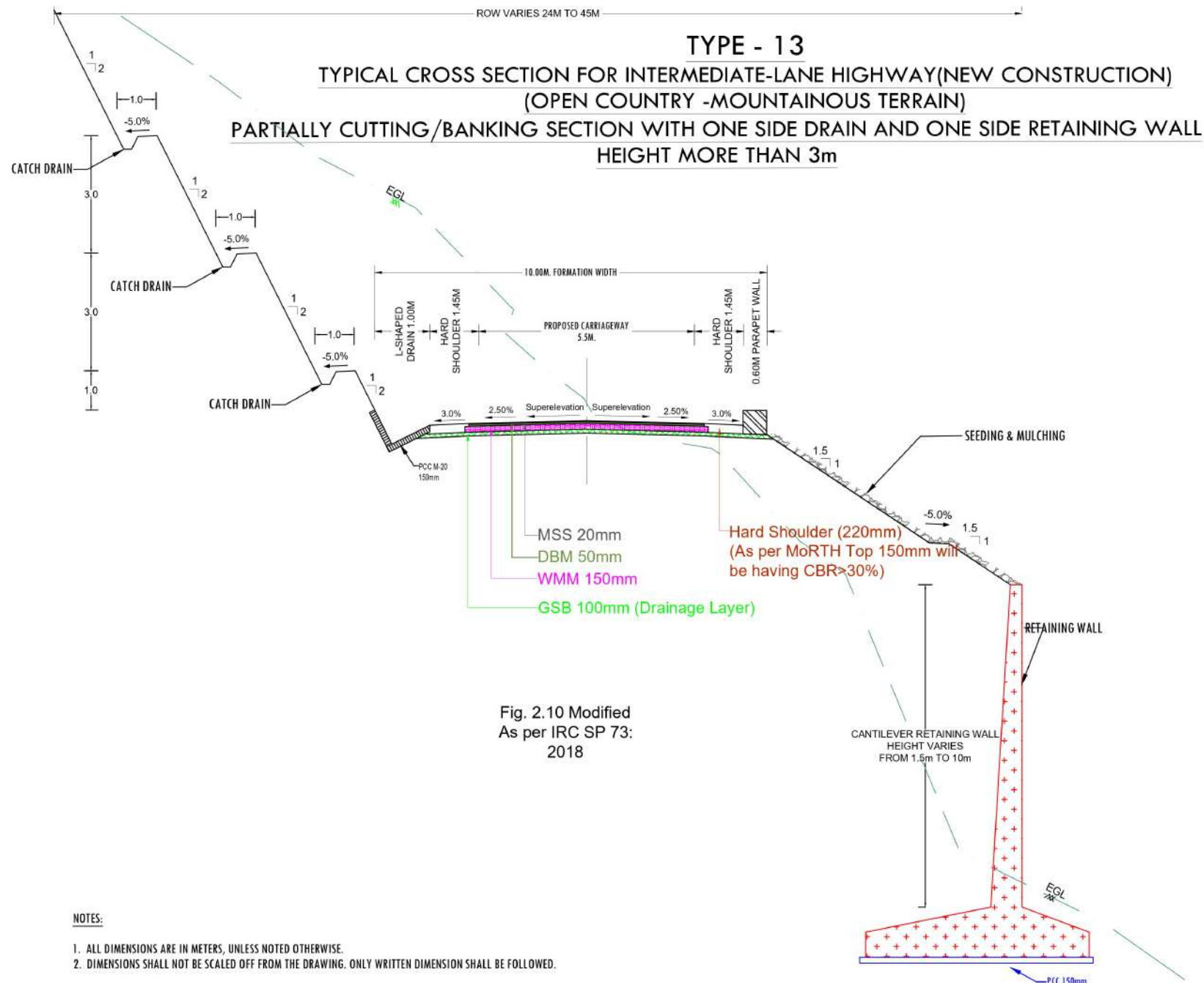
NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA, NEW DELHI - 110001			Global Infra Solutions in JV with M/s Dhruv Consultancy Service Ltd. and association with Infycons Creative Software Pvt. Ltd. 1-2, I-8/11A, Sukhsegar Apartment, Trilanga Bhagel-462009 e: globalinfra@infra.com web: globalinfra.com			CONSTRUCTION OF HUNLI TO HAYULIANG PACKAGE -01 DESIGN KM 0+000 TO KM 53+000, TOTAL DESIGN LENGTH: 53.000 KM TO INTERMEDIATE LANE CONFIGURATIONS IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE.			SCALE AT A3 SIZE DRAWING NOT TO SCALE			TYPICAL CROSS SECTION			CLIENT APPROVAL SIGNATURE DRAWING- DRAWN: LK CHECKED: SJ DESIGNED: SC APPROVED: LA		
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TYPE - 12
TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY(NEW CONSTRUCTION)
(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

BANKING SECTION WITH RETAINING WALL BOTH SIDES OFFSET FROM SHOULDER
HEIGHT MORE THAN 3m



Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type
1	23.410	23.417	0.007	12
2	47.364	47.370	0.006	12
TOTAL LENGTH			0.013	



NOTES:

1. ALL DIMENSIONS ARE IN METERS, UNLESS NOTED OTHERWISE.
2. DIMENSIONS SHALL NOT BE SCALED OFF FROM THE DRAWING. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.

REV	DATE	REVISIONS

CLIENT
NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.
PTI BUILDING, 4 PARLIAMENT STREET
SANSAD MARG AREA, NEW DELHI - 110001

DESIGN CONSULTANT
Global Infra Solutions
in JV with M/s Dhruv Consultancy Service Ltd. and association with Infycons Creative Software Pvt. Ltd.
1-2, I.B.I.114, Sukhsagar Apartment, Trilanga Bhagel-462009
e: globalinfra@infra.com web: globalinfra.com

PROJECT
CONSTRUCTION OF HUNLI TO HAYULIANG PACKAGE -01 DESIGN KM 0+000 TO KM 53+000, TOTAL DESIGN LENGTH: 53.000 KM TO INTERMEDIATE LANE CONFIGURATIONS IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE.

SCALE AT A3 SIZE DRAWING

NOT TO SCALE

TITLE
TYPICAL CROSS SECTION

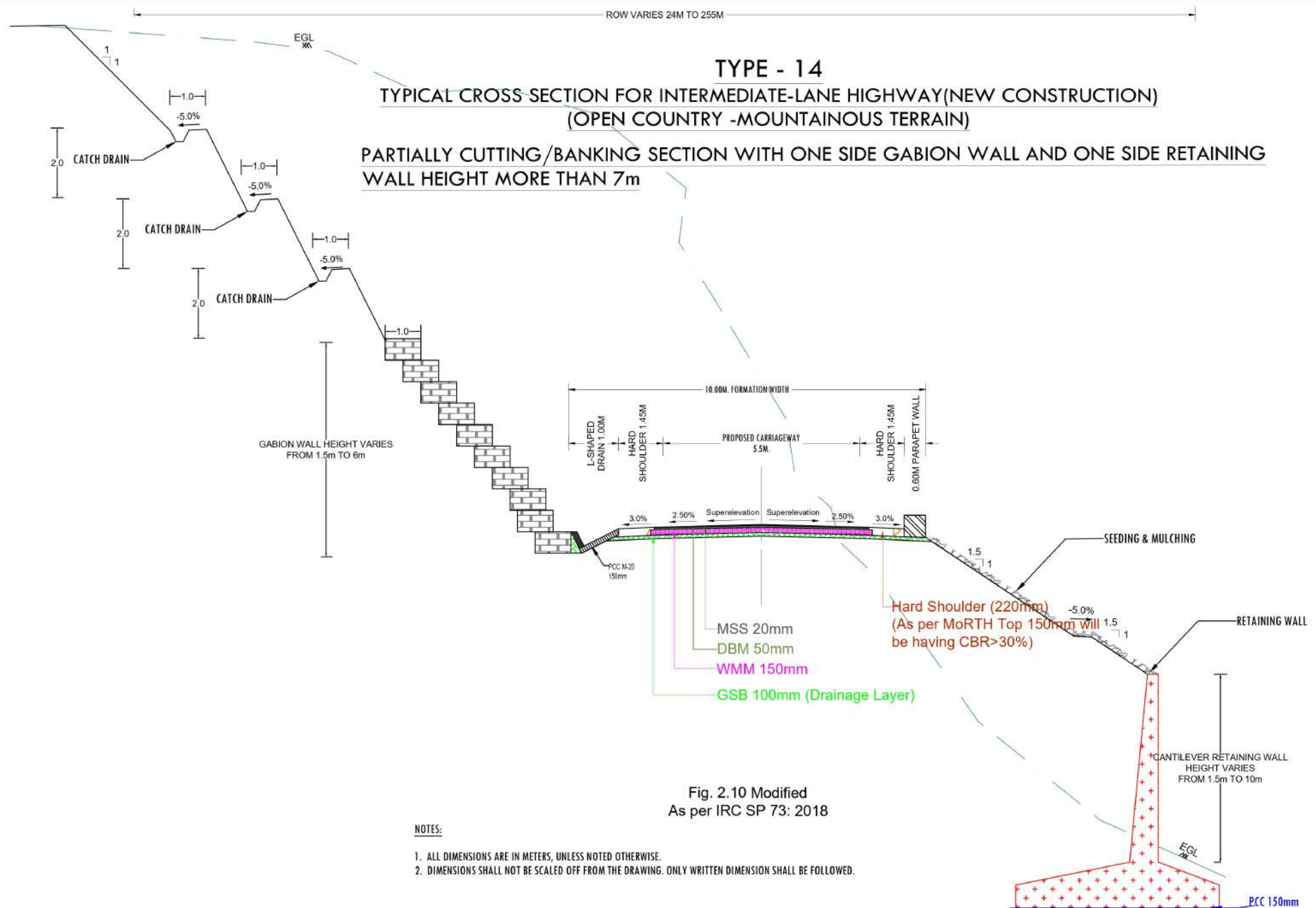
CLIENT APPROVAL		SIGNATURE	
DWG NO:-			
DRAWN:	CHECKED:	DESIGNED:	APPROVED:
LK	SJ	SC	LA

TYPE - 13

TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY(NEW CONSTRUCTION)

(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type
1	0.000	0.010	0.010	13	63	9.690	9.710	0.020	13	125	18.570	18.590	0.020	13	187	29.330	29.350	0.020	13	249	41.157	41.184	0.027	13
2	0.190	0.210	0.020	13	64	9.930	9.950	0.020	13	126	18.600	18.610	0.010	13	188	29.692	29.710	0.018	13	250	41.250	41.270	0.020	13
3	0.230	0.250	0.020	13	65	10.290	10.325	0.035	13	127	18.690	18.710	0.020	13	189	29.790	29.810	0.020	13	251	41.490	41.499	0.009	13
4	0.390	0.450	0.060	13	66	10.336	10.350	0.014	13	128	18.730	18.749	0.019	13	190	30.150	30.172	0.022	13	252	41.670	41.690	0.020	13
5	0.470	0.490	0.020	13	67	10.390	10.392	0.002	13	129	18.762	18.810	0.048	13	191	30.172	30.199	0.027	13	253	41.770	41.790	0.020	13
6	0.510	0.530	0.020	13	68	10.429	10.470	0.041	13	130	18.850	18.854	0.004	13	192	30.199	30.210	0.011	13	254	42.090	42.112	0.022	13
7	0.670	0.672	0.002	13	69	10.950	10.979	0.029	13	131	18.867	18.910	0.043	13	193	30.390	30.410	0.020	13	255	42.112	42.159	0.047	13
8	0.672	0.709	0.037	13	70	10.979	10.992	0.013	13	132	19.070	19.097	0.027	13	194	30.430	30.450	0.020	13	256	42.290	42.310	0.020	13
9	0.709	0.750	0.041	13	71	11.090	11.110	0.020	13	133	19.097	19.124	0.027	13	195	30.470	30.479	0.009	13	257	42.430	42.450	0.020	13
10	0.770	0.790	0.020	13	72	11.310	11.330	0.020	13	134	19.124	19.217	0.093	13	196	30.630	30.670	0.040	13	258	42.550	42.570	0.020	13
11	0.890	0.910	0.020	13	73	12.864	12.890	0.026	13	135	19.270	19.310	0.040	13	197	30.950	30.972	0.022	13	259	42.674	42.690	0.016	13
12	0.930	0.950	0.020	13	74	13.110	13.170	0.060	13	136	19.590	19.610	0.020	13	198	30.972	30.999	0.027	13	260	42.710	42.750	0.040	13
13	1.214	1.250	0.036	13	75	13.209	13.250	0.041	13	137	19.710	19.752	0.042	13	199	31.070	31.090	0.020	13	261	42.970	42.990	0.020	13
14	1.370	1.390	0.020	13	76	13.290	13.330	0.040	13	138	19.752	19.799	0.047	13	200	31.230	31.242	0.012	13	262	43.130	43.150	0.020	13
15	1.832	1.850	0.018	13	77	13.450	13.470	0.020	13	139	19.799	19.830	0.031	13	201	31.370	31.390	0.020	13	263	43.390	43.405	0.015	13
16	2.050	2.070	0.020	13	78	13.510	13.530	0.020	13	140	19.850	19.862	0.012	13	202	32.050	32.070	0.020	13	264	43.450	43.490	0.040	13
17	2.130	2.144	0.014	13	79	13.650	13.682	0.032	13	141	19.862	19.889	0.027	13	203	32.170	32.190	0.020	13	265	43.510	43.530	0.020	13
18	2.290	2.292	0.002	13	80	13.699	13.730	0.031	13	142	20.164	20.170	0.006	13	204	32.290	32.299	0.009	13	266	43.630	43.650	0.020	13
19	2.292	2.339	0.047	13	81	13.750	13.770	0.020	13	143	20.350	20.359	0.009	13	205	32.730	32.739	0.009	13	267	43.729	43.770	0.041	13
20	2.559	2.570	0.011	13	82	13.834	13.850	0.016	13	144	20.430	20.450	0.020	13	206	32.752	32.770	0.018	13	268	43.810	43.850	0.040	13
21	3.370	3.387	0.017	13	83	13.890	13.910	0.020	13	145	20.670	20.772	0.102	13	207	32.830	32.839	0.009	13	269	43.990	44.015	0.025	13
22	3.387	3.414	0.027	13	84	14.019	14.050	0.031	13	146	20.772	20.799	0.027	13	208	32.852	32.870	0.018	13	270	44.025	44.030	0.005	13
23	3.767	3.790	0.023	13	85	14.070	14.090	0.020	13	147	20.799	20.810	0.011	13	209	32.984	33.010	0.026	13	271	44.050	44.070	0.020	13
24	3.850	3.890	0.040	13	86	14.110	14.127	0.017	13	148	20.930	20.962	0.032	13	210	33.070	33.090	0.020	13	272	44.510	44.530	0.020	13
25	3.910	3.914	0.004	13	87	14.127	14.194	0.067	13	149	20.962	20.989	0.027	13	211	33.409	33.442	0.033	13	273	44.690	44.730	0.040	13
26	3.970	3.984	0.014	13	88	14.194	14.210	0.016	13	150	21.090	21.110	0.020	13	212	33.442	33.469	0.027	13	274	44.790	44.810	0.020	13
27	4.090	4.104	0.014	13	89	14.270	14.274	0.004	13	151	21.130	21.150	0.020	13	213	33.670	33.690	0.020	13	275	44.950	44.970	0.020	13
28	4.117	4.130	0.013	13	90	14.287	14.310	0.023	13	152	21.170	21.189	0.019	13	214	33.850	33.870	0.020	13	276	45.150	45.190	0.040	13
29	4.190	4.212	0.022	13	91	14.730	14.764	0.034	13	153	21.202	21.230	0.028	13	215	33.910	33.927	0.017	13	277	45.270	45.290	0.020	13
30	4.212	4.249	0.037	13	92	14.777	14.810	0.033	13	154	21.270	21.310	0.040	13	216	33.927	33.954	0.027	13	278	45.341	45.370	0.029	13
31	4.249	4.309	0.060	13	93	14.830	14.905	0.075	13	155	21.370	21.410	0.040	13	217	33.954	33.970	0.016	13	279	45.430	45.439	0.009	13
32	4.350	4.370	0.020	13	94	14.970	14.990	0.020	13	156	21.730	21.750	0.020	13	218	34.110	34.130	0.020	13	280	45.699	45.710	0.011	13
33	4.870	4.890	0.020	13	95	15.010	15.037	0.027	13	157	21.790	21.807	0.017	13	219	34.230	34.250	0.020	13	281	45.757	45.770	0.013	13
34	5.459	5.470	0.011	13	96	15.037	15.064	0.027	13	158	21.807	21.854	0.047	13	220	34.690	34.710	0.020	13	282	45.990	46.010	0.020	13
35	5.490	5.572	0.082	13	97	15.064	15.102	0.038	13	159	21.854	21.890	0.036	13	221	35.070	35.074	0.004	13	283	46.350	46.365	0.015	13
36	5.572	5.599	0.027	13	98	15.102	15.169	0.067	13	160	22.010	22.022	0.012	13	222	35.330	35.350	0.020	13	284	46.376	46.390	0.014	13
37	5.599	5.610	0.011	13	99	15.169	15.210	0.041	13	161	22.090	22.110	0.020	13	223	36.350	36.370	0.020	13	285	46.559	46.570	0.011	13
38	5.710	5.737	0.027	13	100	15.950	15.962	0.012	13	162	22.170	22.189	0.019	13	224	36.910	36.932	0.022	13	286	47.010	47.030	0.020	13
39	5.944	5.950	0.006	13	101	15.962	15.989	0.027	13	163	22.270	22.290	0.020	13	225	37.010	37.027	0.017	13	287	47.090	47.110	0.020	13
40	6.050	6.062	0.012	13	102	15.990	16.010	0.020	13	164	22.510	22.544	0.034	13	226	37.090	37.096	0.006	13	288	48.110	48.130	0.020	13
41	6.062	6.129	0.067	13	103	16.030	16.050	0.020	13	165	22.990	23.010	0.020	13	227	37.499	37.510	0.011	13	289	48.570	48.610	0.040	13
42	6.570	6.590	0.020	13	104	16.150	16.170	0.020	13	166	23.070	23.077	0.007	13	228	37.550	37.610	0.060	13	290	48.750	48.770	0.020	13
43	6.890	6.910	0.020	13	105	16.230	16.250	0.020	13	167	23.077	23.104	0.027	13	229	38.270	38.307	0.037	13	291	49.010	49.030	0.020	13
44	6.970	6.990	0.020	13	106	16.310	16.327	0.017	13	168	23.170	23.190	0.020	13	230	38.324	38.330	0.006	13	292	50.050	50.070	0.020	13
45	7.024	7.030	0.006	13	107	16.327	16.374	0.047	13	169	23.279	23.290	0.011	13	231	38.387	38.410	0.023	13	293	50.270	50.290	0.020	13
46	7.094	7.150	0.056	13	108	16.374	16.387	0.013	13	170	23.710	23.730	0.020	13	232	38.730	38.750	0.020	13	294	50.330	50.332	0.002	13
47	8.110	8.117	0.007	13	109	16.387	16.414	0.027	13	171	23.970	23.990	0.020	13	233	38.910	38.917	0.007	13	295	50.332	50.359	0.027	13
48	8.117	8.154	0.037	13	110	16.450	16.470	0.020	13	172	24.410	24.430	0.020	13	234	38.917	38.944	0.027	13	296	50.450	50.470	0.020	13
49	8.490	8.510	0.020	13	111	16.510	16.522	0.012	13	173	24.970	25.010	0.040	13	235	39.724	39.750	0.026	13	297	51.070	51.090	0.020	13
50	8.610	8.627	0.017	13	112	16.522	16.589	0.067	13	174	25.409	25.430	0.021	13	236	39.950	39.989	0.039	13	298	51.170	51.190	0.020	13
51	8.627	8.654	0.027	13	113	16.589	16.610	0.021	13	175	25.930	25.950	0.020	13	237	40.002	40.010	0.008	13	299	51.289	51.310		



TYPE - 14

TYPICAL CROSS SECTION FOR INTERMEDIATE-LANE HIGHWAY(NEW CONSTRUCTION)

(OPEN COUNTRY -MOUNTAINOUS TERRAIN)

Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	Sr. No.	Chainage From (Km.)	Chainage To (Km.)	Length (Km)	TCS Type	
1	0.250	0.257	0.007	14	47	13.170	13.182	0.012	14	93	30.032	30.050	0.018	14	139	36.510	36.530	0.020	14	185	43.150	43.175	0.025	14	
2	0.257	0.284	0.027	14	48	13.182	13.209	0.027	14	94	30.129	30.150	0.021	14	140	36.730	36.790	0.060	14	186	43.186	43.310	0.124	14	
3	0.284	0.290	0.006	14	49	14.810	14.830	0.020	14	95	30.230	30.250	0.020	14	141	36.870	36.910	0.040	14	187	43.350	43.370	0.020	14	
4	0.530	0.550	0.020	14	50	15.989	15.990	0.001	14	96	30.310	30.350	0.040	14	142	36.990	37.010	0.020	14	188	43.590	43.610	0.020	14	
5	0.590	0.670	0.080	14	51	16.050	16.072	0.022	14	97	30.510	30.604	0.094	14	143	37.270	37.330	0.060	14	189	43.770	43.790	0.020	14	
6	0.830	0.834	0.004	14	52	16.072	16.099	0.027	14	98	30.617	30.630	0.013	14	144	37.350	37.370	0.020	14	190	43.970	43.990	0.020	14	
7	0.847	0.890	0.043	14	53	16.130	16.150	0.020	14	99	30.670	30.695	0.025	14	145	37.450	37.482	0.032	14	191	44.170	44.190	0.020	14	
8	1.150	1.170	0.020	14	54	16.290	16.310	0.020	14	100	30.705	30.750	0.045	14	146	37.510	37.530	0.020	14	192	44.250	44.270	0.020	14	
9	2.090	2.110	0.020	14	55	16.490	16.510	0.020	14	101	30.776	30.832	0.056	14	147	37.610	37.650	0.040	14	193	44.290	44.310	0.020	14	
10	2.250	2.270	0.020	14	56	16.690	16.710	0.020	14	102	30.832	30.879	0.047	14	148	37.690	37.710	0.020	14	194	44.630	44.650	0.020	14	
11	3.230	3.250	0.020	14	57	16.810	16.830	0.020	14	103	30.879	30.950	0.071	14	149	37.750	37.810	0.060	14	195	44.832	44.850	0.018	14	
12	3.414	3.430	0.016	14	58	16.970	16.974	0.004	14	104	31.210	31.230	0.020	14	150	37.850	37.890	0.040	14	196	44.870	44.890	0.020	14	
13	3.510	3.515	0.005	14	59	17.010	17.030	0.020	14	105	31.270	31.290	0.020	14	151	37.910	37.930	0.020	14	197	45.030	45.050	0.020	14	
14	3.525	3.530	0.005	14	60	17.690	17.890	0.200	14	106	31.330	31.370	0.040	14	152	38.050	38.070	0.020	14	198	45.070	45.090	0.020	14	
15	3.890	3.910	0.020	14	61	19.690	19.710	0.020	14	107	31.470	31.550	0.080	14	153	38.150	38.170	0.020	14	199	45.650	45.670	0.020	14	
16	3.997	4.030	0.033	14	62	20.110	20.127	0.017	14	108	31.610	31.630	0.020	14	154	38.210	38.230	0.020	14	200	46.150	46.170	0.020	14	
17	4.322	4.350	0.028	14	63	21.410	21.444	0.034	14	109	31.650	31.710	0.060	14	155	38.330	38.350	0.020	14	201	46.270	46.290	0.020	14	
18	4.370	4.390	0.020	14	64	21.457	21.530	0.073	14	110	31.770	31.785	0.015	14	156	38.410	38.430	0.020	14	202	46.570	46.587	0.017	14	
19	4.890	4.894	0.004	14	65	21.550	21.610	0.060	14	111	31.795	31.810	0.015	14	157	38.630	38.650	0.020	14	203	46.690	46.750	0.060	14	
20	4.907	4.950	0.043	14	66	21.690	21.710	0.020	14	112	31.890	31.910	0.020	14	158	38.890	38.910	0.020	14	204	46.770	46.790	0.020	14	
21	5.242	5.250	0.008	14	67	22.675	22.750	0.075	14	113	32.312	32.350	0.038	14	159	39.150	39.170	0.020	14	205	46.855	46.870	0.015	14	
22	5.370	5.390	0.020	14	68	22.760	22.870	0.110	14	114	32.430	32.434	0.004	14	160	39.370	39.390	0.020	14	206	46.990	47.010	0.020	14	
23	5.470	5.490	0.020	14	69	22.881	22.950	0.069	14	115	32.447	32.470	0.023	14	161	39.430	39.450	0.020	14	207	47.370	47.390	0.020	14	
24	6.750	6.760	0.010	14	70	23.030	23.050	0.020	14	116	32.490	32.494	0.004	14	162	39.550	39.590	0.040	14	208	47.550	47.570	0.020	14	
25	6.770	6.790	0.020	14	71	23.670	23.690	0.020	14	117	32.530	32.589	0.059	14	163	39.750	39.810	0.060	14	209	47.610	47.630	0.020	14	
26	6.830	6.860	0.030	14	72	23.770	23.790	0.020	14	118	32.610	32.710	0.100	14	164	40.010	40.070	0.060	14	210	47.650	47.670	0.020	14	
27	6.870	6.890	0.020	14	73	23.870	23.890	0.020	14	119	32.790	32.810	0.020	14	165	40.170	40.230	0.060	14	211	47.690	47.710	0.020	14	
28	8.784	8.790	0.006	14	74	24.210	24.230	0.020	14	120	32.870	32.890	0.020	14	166	40.450	40.470	0.020	14	212	47.770	47.790	0.020	14	
29	8.910	8.915	0.005	14	75	24.250	24.270	0.020	14	121	33.090	33.124	0.034	14	167	40.590	40.650	0.060	14	213	47.950	47.970	0.020	14	
30	8.925	8.950	0.025	14	76	27.410	27.430	0.020	14	122	33.137	33.190	0.053	14	168	40.910	40.970	0.060	14	214	48.230	48.250	0.020	14	
31	9.310	9.337	0.027	14	77	28.210	28.230	0.020	14	123	33.290	33.310	0.020	14	169	41.110	41.150	0.040	14	215	48.290	48.310	0.020	14	
32	9.337	9.364	0.027	14	78	28.470	28.490	0.020	14	124	33.469	33.510	0.041	14	170	41.184	41.230	0.046	14	216	48.350	48.390	0.040	14	
33	9.364	9.370	0.006	14	79	28.510	28.530	0.020	14	125	33.730	33.770	0.040	14	171	41.290	41.370	0.080	14	217	48.490	48.510	0.020	14	
34	9.550	9.572	0.022	14	80	28.550	28.570	0.020	14	126	33.790	33.830	0.040	14	172	41.390	41.410	0.020	14	218	48.830	48.850	0.020	14	
35	9.572	9.599	0.027	14	81	28.610	28.650	0.040	14	127	34.430	34.450	0.020	14	173	41.430	41.450	0.020	14	219	48.870	48.890	0.020	14	
36	9.730	9.750	0.020	14	82	28.670	28.710	0.040	14	128	34.514	34.530	0.016	14	174	41.750	41.770	0.020	14	220	48.995	49.010	0.015	14	
37	10.050	10.070	0.020	14	83	28.750	28.790	0.040	14	129	34.550	34.570	0.020	14	175	41.910	41.970	0.060	14	221	49.090	49.130	0.040	14	
38	10.270	10.290	0.020	14	84	28.810	28.830	0.020	14	130	34.670	34.690	0.020	14	176	42.159	42.250	0.091	14	222	49.250	49.270	0.020	14	
39	10.370	10.390	0.020	14	85	29.190	29.210	0.020	14	131	35.170	35.190	0.020	14	177	42.270	42.290	0.020	14	223	50.130	50.150	0.020	14	
40	10.670	10.730	0.060	14	86	29.390	29.452	0.062	14	132	35.630	35.670	0.040	14	178	42.330	42.370	0.040	14	224	50.510	50.550	0.040	14	
41	10.890	10.910	0.020	14	87	29.469	29.570	0.101	14	133	35.770	35.790	0.020	14	179	42.450	42.477	0.027	14	225	52.610	52.630	0.020	14	
42	11.010	11.050	0.040	14	88	29.610	29.670	0.060	14	134	35.870	35.930	0.060	14	180	42.477	42.524	0.047	14	226	52.830	52.850	0.020	14	
43	11.070	11.090	0.020	14	89	29.750	29.770	0.020	14	135	36.010	36.050	0.040	14	181	42.524	42.550	0.026	14		TOTAL LENGTH			7.182	
44	11.210	11.230	0.020	14	90	29.830	29.852	0.022	14	136	36.149	36.170	0.021	14	182	42.570	42.610	0.040	14						
45	11.330	11.350	0.020	14	91	29.852	29.919	0.067	14	137	36.250	36.270	0.020	14	183	42.890	42.950	0.060	14						
46	12.890	13.110	0.220	14	92	29.970	30.019	0.049	14	138	36.370	36.410	0.040	14	184	43.070	43.130	0.060	14						

			 NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD. PTI BUILDING, 4 PARLIAMENT STREET SANSAD MARG AREA, NEW DELHI - 110001			 DESIGN CONSULTANT Global Infra Solutions in JV with M/s Dhruv Consultancy Service Ltd. and association with Infycons Creative Software Pvt. Ltd. I-2, I-B/1A, Sukhsagar Apartment, Trilanga, Bhagal-462039 e: globalinfosolutions@gmail.com web: globalinfosolutions.org			PROJECT: CONSTRUCTION OF HUNLI TO HAYULIANG PACKAGE -01 DESIGN KM 0+000 TO KM 53+000, TOTAL DESIGN LENGTH: 53.000 KM TO INTERMEDIATE LANE CONFIGURATIONS IN THE STATE OF ARUNACHAL PRADESH ON EPC MODE.			SCALE AT A3 SIZE DRAWING NOT TO SCALE			TITLE: TYPICAL CROSS SECTION			CLIENT APPROVAL 		SIGNATURE 					
REV. DATE REVISIONS															DWG NO.:-			DRAWN:-		CHECKED:-		DESIGNED:-		APPROVED:-	
																		LK		SJ		SC		LA	