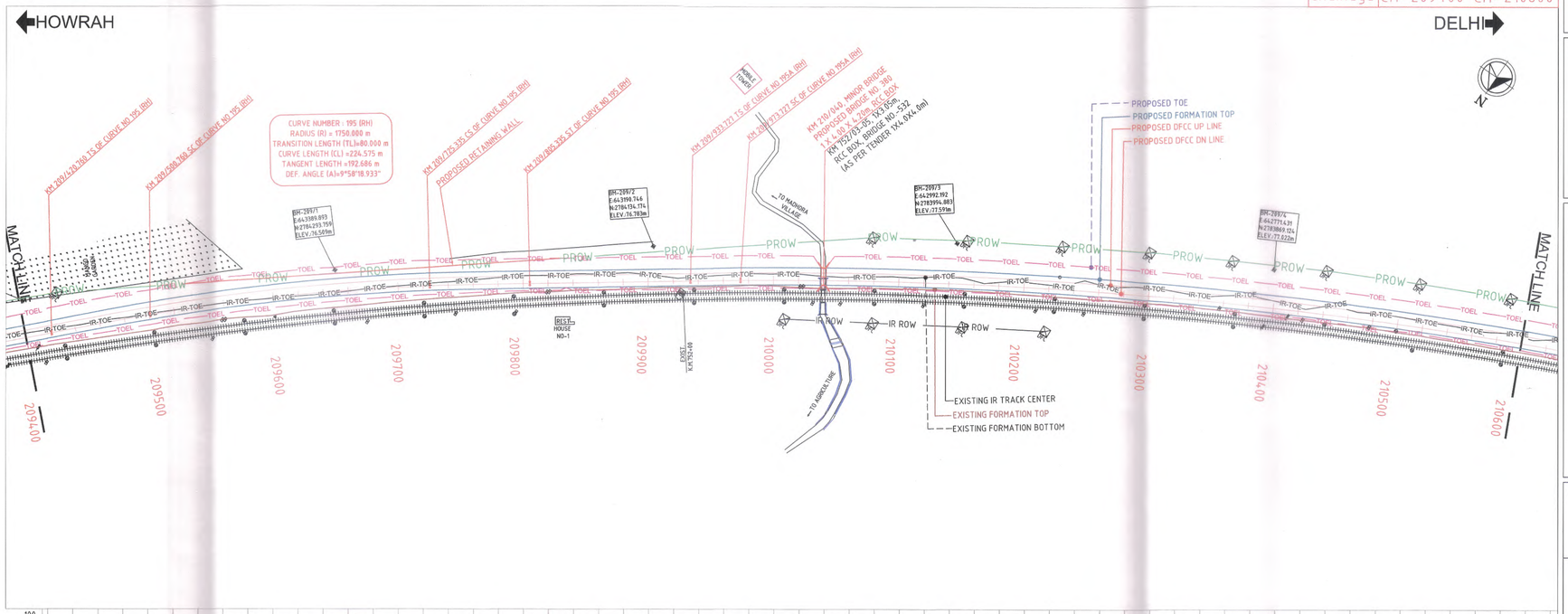
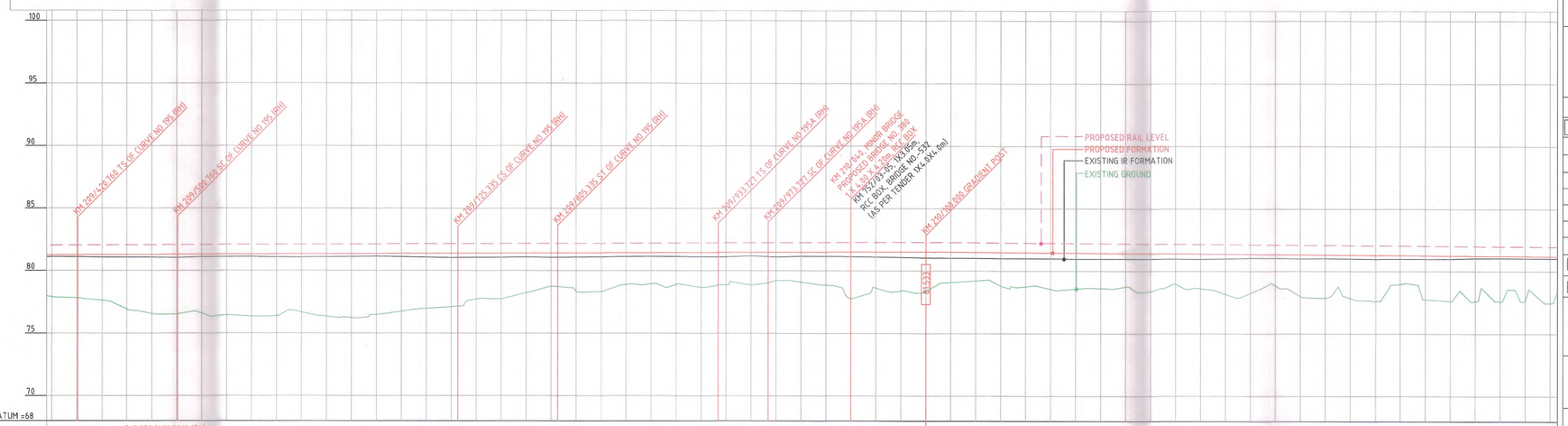
Chainage CH- 209400 CH- 210600





VERTICAL ALIGNMENT: G=0.038 (1 IN 2616.174) L=800.000m; G=0.038 (1 IN 2616.174) L=800.000m; L=1200.000m G=-0.065 (1 IN 1532.978); L=1200.000m G=-0.065 (1 IN 1532.978)

HORIZONTAL ALIGNMENT: L=80.000m; R=1750.000m L=224.575m; L=80.000m; L=128.392m; L=40.000m; R=3500.000m L=1814.796m; R=3500.000m L=1814.796m

CHAINAGE	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS	THROUGH CHAINAGE
209400	15.000	14.211	3.354	81.265	81.112	77.912	
209420	15.000	14.647	3.452	81.273	81.104	77.821	
209440	15.000	15.308	3.651	81.281	81.068	77.630	
209460	15.000	16.037	4.348	81.288	81.070	76.941	
209480	15.000	16.717	4.718	81.296	81.073	76.577	
209500	15.000	17.260	4.772	81.304	81.037	76.532	
209520	15.000	17.779	4.714	81.311	81.105	76.598	
209540	15.000	18.169	4.867	81.319	81.103	76.451	
209560	15.000	18.382	4.970	81.326	81.120	76.356	
209580	15.000	18.463	4.955	81.334	81.077	76.380	
209600	15.000	18.469	4.663	81.342	81.069	76.679	
209620	15.000	18.324	4.999	81.349	81.097	76.351	
209640	15.000	18.116	5.112	81.357	81.121	76.246	
209660	15.000	17.739	4.866	81.365	81.133	76.499	
209680	15.000	17.313	4.640	81.372	81.105	76.733	
209700	15.000	16.764	4.407	81.380	81.069	76.973	
209720	15.000	16.127	4.287	81.388	81.036	77.100	
209740	15.000	15.433	3.663	81.395	81.062	77.732	
209760	15.000	14.646	3.667	81.403	81.063	77.735	
209780	15.000	13.697	3.167	81.411	81.082	78.243	
209800	15.000	12.704	2.669	81.418	81.064	78.749	
209820	15.000	11.917	3.081	81.426	81.090	78.344	
209840	15.000	11.375	3.097	81.434	81.096	78.337	
209860	15.000	10.835	2.531	81.441	81.131	78.910	
209880	15.000	10.387	2.490	81.449	81.143	78.959	
209900	15.000	10.063	2.565	81.457	81.134	78.891	
209920	15.000	9.881	2.804	81.464	81.108	78.660	
209940	15.000	9.794	2.606	81.472	81.103	78.865	
209960	15.000	9.836	2.600	81.479	81.195	78.880	
209980	15.000	9.929	2.285	81.487	81.102	79.203	
210000	15.000	9.959	2.400	81.495	81.162	79.094	
210020	15.000	10.043	2.647	81.502	81.157	78.856	
210040	15.000	10.159	3.733	81.510	81.134	78.778	
210060	15.000	10.216	2.881	81.518	81.113	78.637	
210080	15.000	10.224	3.119	81.525	81.085	78.406	
210100	15.000	10.273	3.153	81.533	81.043	78.380	
210120	15.000	10.453	2.439	81.520	81.023	79.081	
210140	15.000	10.523	2.280	81.507	81.023	79.227	
210160	15.000	10.525	2.673	81.494	81.013	78.821	
210180	15.000	10.555	2.720	81.481	81.006	78.760	
210200	15.000	10.618	2.909	81.468	81.003	78.558	
210220	15.000	10.668	2.880	81.455	80.968	78.574	
210240	15.000	10.694	2.819	81.442	80.979	78.622	
210260	15.000	10.789	2.680	81.429	80.988	78.748	
210280	15.000	10.822	3.045	81.416	80.971	78.371	
210300	15.000	10.837	2.401	81.402	80.972	79.002	
210320	15.000	10.890	2.782	81.389	80.962	78.607	
210340	15.000	10.888	3.220	81.376	80.962	78.157	
210360	15.000	10.912	3.121	81.363	80.994	78.242	
210380	15.000	10.891	2.480	81.350	81.041	78.871	
210400	15.000	10.858	3.337	81.337	81.034	78.001	
210420	15.000	10.777	3.473	81.324	81.012	77.851	
210440	15.000	11.014	3.473	81.311	81.024	77.839	
210460	15.000	10.899	3.693	81.298	81.001	77.605	
210480	15.000	11.287	2.304	81.285	80.974	78.982	
210500	15.000	11.313	3.511	81.272	80.982	77.761	
210520	15.000	11.171	3.642	81.259	80.983	77.617	
210540	15.000	11.202	3.643	81.246	80.995	77.602	
210560	15.000	11.318	3.646	81.233	81.042	77.587	
210580	15.000	11.313	3.594	81.220	81.051	77.625	
210600	15.000	11.525	3.741	81.207	81.033	77.465	

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — DFCC ROW LINE
- IR-TOE — EXISTING IR TOE LINE
- TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 209/400 TO KM. 210/600

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 7 6	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	20/07/2018	DEFINITIVE

DRAWING STAGE

- [ ] FOR APPROVAL
- [x] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	04/02/2019	TC	
CHKD.	04/02/2019		
APPD.	04/02/2019	S. MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	04/02/2019	Roopkalli Gangadhar	
APPD.	04/02/2019	NISHEETH K. SINGH	04.02.19

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	20/02/2019	ANURANJAN PRASAD	
NOC	20/02/2019	P. AMERIKANOS	

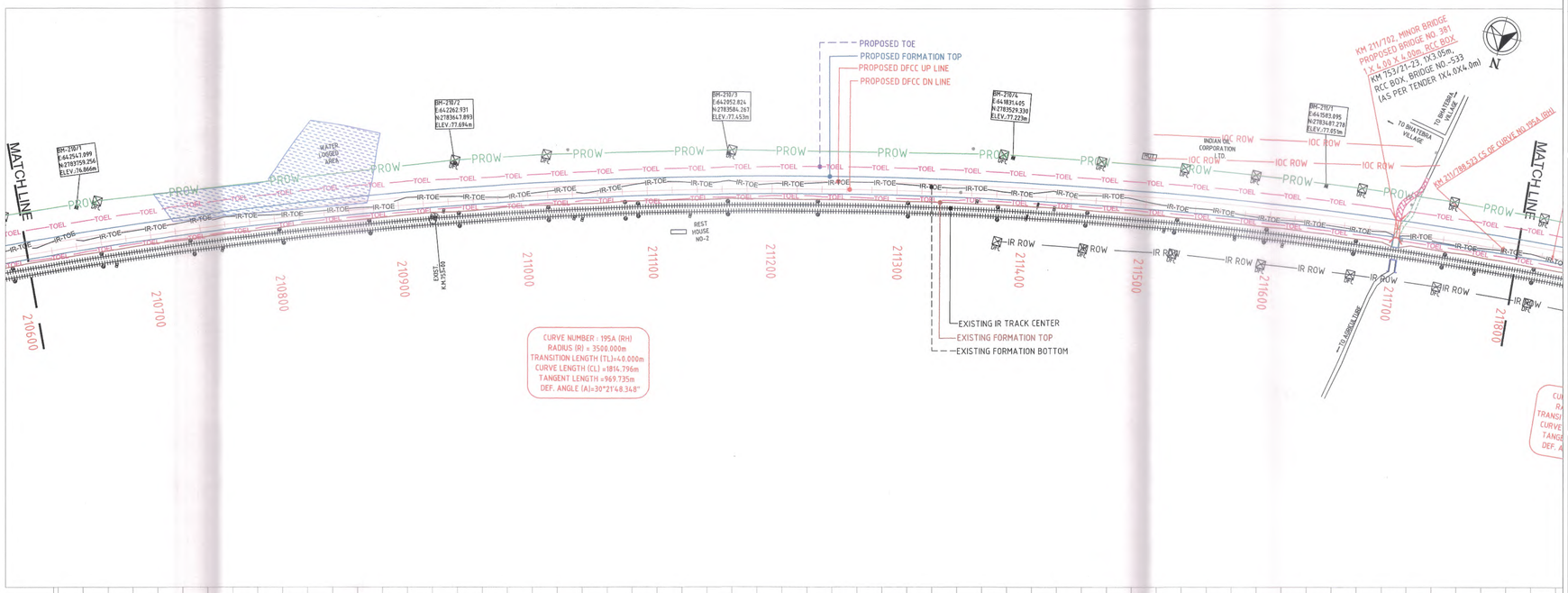
APPROVAL BY DFCC

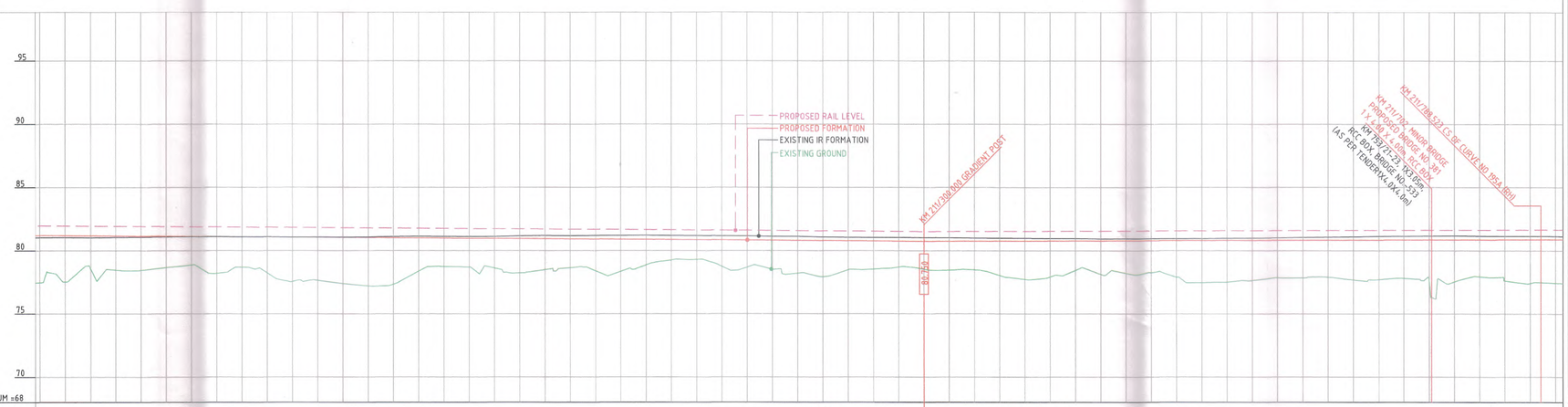
	DATE	NAME	SIGN.
CHKD.			
APPD.			

THIS DRAWING IS THE PROPERTY OF **GIL - SIL JV** IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

Chainage CH- 210600 CH- 211800

HOWRAH ← → DELHI





VERTICAL ALIGNMENT	L=1200.000m G=-0.065 (1 IN 1532.978)	L=1200.000m G=-0.065 (1 IN 1532.978)	G=0.028 (1 IN 3619.469) L=1227.000m
HORIZONTAL ALIGNMENT	R=3500.000m L=1814.796m	R=3500.000m L=1814.796m	R=3500.000m L=1814.796m L=40.000m

CHAINAGE	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS
210600	15.000	11.525	3.741	81.207	81.033	77.465
210620	15.000	11.593	3.662	81.194	81.042	77.531
210640	15.000	11.649	2.567	81.181	81.026	78.614
210660	15.000	11.719	2.703	81.168	81.047	78.465
210680	15.000	11.811	2.708	81.155	81.059	78.447
210700	15.000	11.867	2.479	81.141	81.082	78.663
210720	15.000	11.919	2.257	81.128	81.098	78.872
210740	15.000	11.953	2.913	81.115	81.102	78.203
210760	15.000	11.922	2.418	81.102	81.095	78.684
210780	15.000	12.030	2.844	81.089	81.092	78.246
210800	15.000	11.964	3.506	81.076	81.066	77.571
210820	15.000	12.176	3.411	81.063	81.079	77.652
210840	15.000	12.272	3.641	81.050	81.074	77.410
210860	15.000	12.299	3.817	81.037	81.086	77.221
210880	15.000	12.371	3.665	81.024	81.116	77.359
210900	15.000	12.491	2.636	81.011	81.133	78.375
210920	15.000	12.551	2.255	80.998	81.126	78.742
210940	15.000	12.576	2.275	80.985	81.115	78.710
210960	15.000	12.715	2.342	80.972	81.113	78.630
210980	15.000	12.702	2.714	80.959	81.164	78.244
211000	15.000	12.834	2.451	80.946	81.190	78.495
211020	15.000	12.718	2.289	80.933	81.174	78.643
211040	15.000	12.684	2.510	80.920	81.191	78.410
211060	15.000	12.781	2.549	80.907	81.204	78.358
211080	15.000	12.698	2.027	80.894	81.220	78.867
211100	15.000	12.657	1.616	80.880	81.192	79.265
211120	15.000	12.580	1.555	80.867	81.183	79.312
211140	15.000	12.642	2.101	80.854	81.167	78.754
211160	15.000	12.615	2.155	80.841	81.161	78.687
211180	15.000	12.546	2.309	80.828	81.129	78.520
211200	15.000	12.653	2.599	80.815	81.126	78.217
211220	15.000	12.694	2.867	80.802	81.076	77.936
211240	15.000	12.667	2.304	80.789	81.051	78.485
211260	15.000	12.765	2.233	80.776	81.043	78.544
211280	15.000	12.850	2.063	80.763	81.042	78.701
211300	15.000	12.803	2.223	80.750	81.033	78.528
211320	15.000	12.835	2.299	80.756	81.024	78.457
211340	15.000	12.804	2.281	80.761	80.996	78.480
211360	15.000	12.887	2.329	80.767	80.993	78.037
211380	15.000	12.893	3.043	80.772	80.983	77.729
211400	15.000	12.905	2.855	80.778	80.967	77.922
211420	15.000	12.949	2.338	80.783	80.962	78.445
211440	15.000	13.001	2.649	80.789	80.943	78.140
211460	15.000	13.070	2.584	80.794	80.950	78.230
211480	15.000	13.146	2.525	80.800	80.944	78.275
211500	15.000	13.225	2.899	80.805	80.948	77.906
211520	15.000	13.195	3.323	80.811	80.956	77.488
211540	15.000	13.258	3.299	80.816	80.974	77.518
211560	15.000	13.590	3.174	80.822	80.989	77.648
211580	15.000	13.456	2.963	80.827	81.016	77.864
211600	15.000	13.643	2.973	80.833	81.053	77.860
211620	15.000	13.736	2.932	80.838	81.072	77.907
211640	15.000	13.865	3.144	80.844	81.097	77.699
211660	15.000	13.905	3.128	80.849	81.130	77.721
211680	15.000	14.022	3.022	80.855	81.141	77.832
211700	15.000	14.147	3.230	80.861	81.162	77.631
211720	15.000	14.276	3.316	80.866	81.186	77.551
211740	15.000	14.462	2.922	80.872	81.162	77.950
211760	15.000	14.554	3.247	80.877	81.143	77.630
211780	15.000	14.660	3.451	80.883	81.138	77.432
211800	15.000	14.643	3.435	80.888	81.141	77.454

THROUGH CHAINAGE

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — PROW: DFCC ROW LINE
- IR-TOE — IR-TOE: EXISTING IR TOE LINE
- TOEL — TOEL: DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 210/600 TO KM. 211/800

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 7 7	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	20/07/2018	DEFINITIVE

DRAWING STAGE

☐ FOR APPROVAL

☑ GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	04/02/2019	TC	
CHKD.	04/02/2019		
APPD.	04/02/2019	S.MMM	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	04/02/2019	Beesheeth (graphics)	
APPD.	04/02/2019	NISHEETH K. SINGH	04.02.19

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	20/02/2019	ANURANJAN PRASAD	
NOC	20/02/2019	RAMERIKANOS	

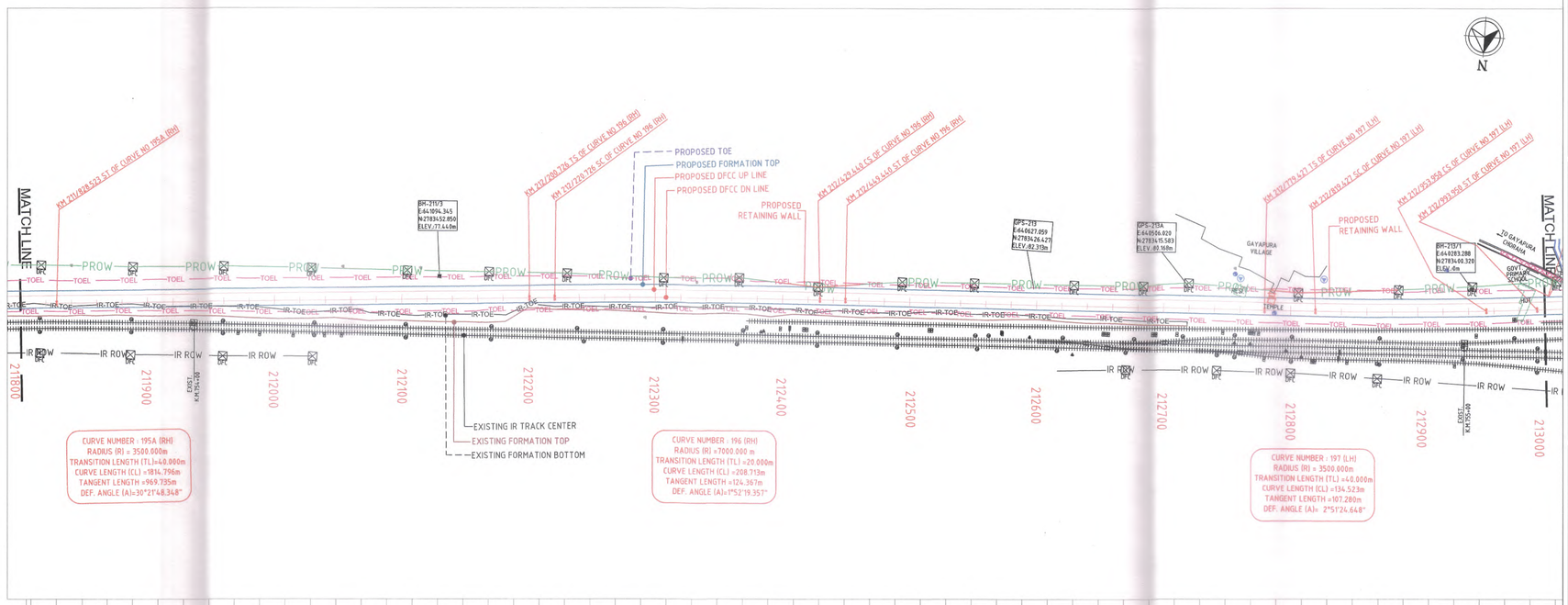
APPROVAL BY DFCC

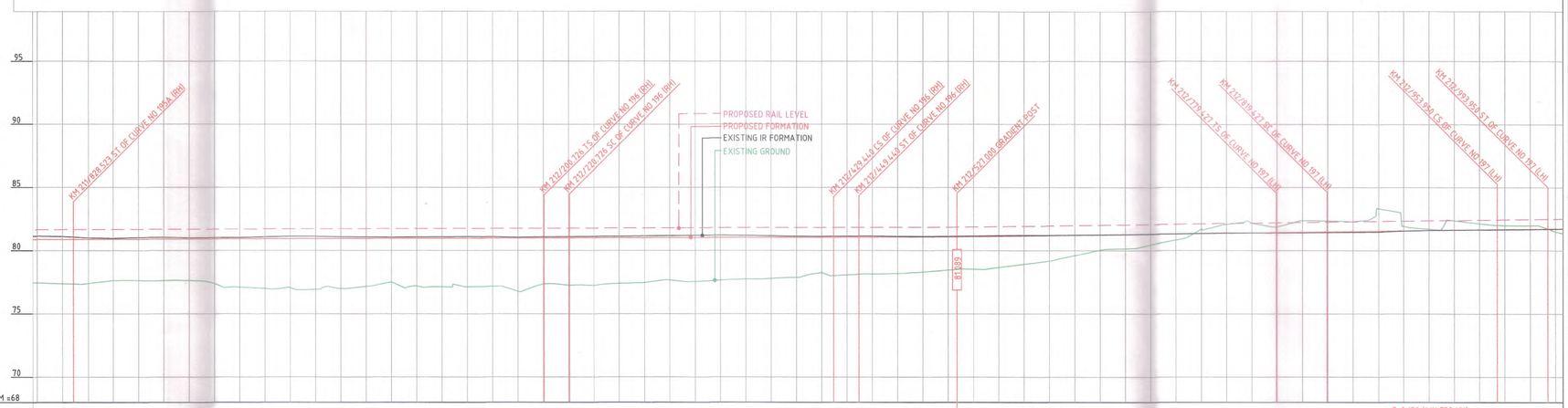
	DATE	NAME	SIGN.
CHKD.			
APPD.			

THIS DRAWING IS THE PROPERTY OF **GIL - SIL JV** IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

Chainage CH- 211800 CH- 213000

HOWRAH ⬅ ➡ DELHI





VERTICAL ALIGNMENT	G=0.028 (1 IN 3619.469) L=1227.000m; G=0.028 (1 IN 3619.469) L=1227.000m; G=0.136 (1 IN 733.191) L=1128.000m; G=0.136 (1 IN 733.191) L=1128.000m
HORIZONTAL ALIGNMENT	L=40.000m; L=372.203m; L=20.0m; R=7000.000m L=208.713m; L=20.0m; L=329.987m; L=40.000m; R=-3500.000m L=134.523m; L=40.000m

THROUGH CHAINAGE	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS	CHAINAGE
	15.000	14.643	3.435	80.888	81.141	77.454	211800
	15.000	14.840	3.511	80.894	81.118	77.383	211820
	15.000	15.137	3.494	80.899	81.099	77.605	211840
	15.000	15.425	3.275	80.905	80.973	77.630	211860
	15.000	15.873	3.269	80.910	81.037	77.641	211880
	15.000	16.316	3.284	80.916	81.049	77.631	211900
	15.824	16.738	3.291	80.921	81.013	77.631	211920
	16.648	17.221	3.536	80.927	81.030	77.391	211940
	17.472	17.780	3.829	80.932	81.030	77.103	211960
	18.296	18.321	3.934	80.938	81.073	77.003	211980
	19.120	18.968	3.889	80.943	81.117	77.054	212000
	20.524	19.573	4.023	80.949	81.115	76.925	212020
	21.928	20.168	3.957	80.954	81.083	76.997	212040
	23.332	20.837	3.795	80.960	81.080	77.164	212060
	24.736	21.554	3.465	80.966	81.052	77.500	212080
	26.140	22.220	3.784	80.971	81.073	77.188	212100
	27.374	22.862	3.848	80.977	81.087	77.128	212120
	28.608	23.416	3.848	80.982	81.092	77.135	212140
	29.842	24.050	3.814	80.988	81.087	77.173	212160
	31.076	24.626	4.215	80.993	81.054	76.779	212180
	32.310	25.294	3.650	80.999	81.082	77.349	212200
	32.736	25.950	3.739	81.004	81.092	77.265	212220
	33.162	26.456	3.765	81.010	81.113	77.245	212240
	33.588	26.970	3.616	81.015	81.124	77.400	212260
	34.014	27.399	3.552	81.021	81.155	77.468	212280
	34.440	27.834	3.361	81.026	81.176	77.666	212300
	34.440	28.112	3.478	81.032	81.199	77.554	212320
	34.440	28.395	3.385	81.037	81.212	77.653	212340
	34.440	28.613	3.283	81.043	81.199	77.759	212360
	34.440	28.781	3.245	81.048	81.159	77.803	212380
	34.440	28.803	3.165	81.054	81.138	77.888	212400
	34.440	28.857	2.794	81.059	81.125	78.266	212420
	34.440	28.825	2.989	81.065	81.143	78.076	212440
	34.440	28.735	2.913	81.070	81.152	78.157	212460
	34.440	28.726	2.880	81.076	81.126	78.197	212480
	34.440	28.753	2.765	81.082	81.123	78.317	212500
	34.440	28.637	2.611	81.087	81.126	78.477	212520
	34.440	28.582	2.569	81.107	81.165	78.538	212540
	34.440	28.560	2.461	81.134	81.183	78.673	212560
	34.440	28.466	2.230	81.161	81.211	78.931	212580
	34.440	28.498	2.007	81.189	81.213	79.182	212600
	34.440	28.458	1.686	81.216	81.231	79.610	212620
	34.440	28.435	1.201	81.243	81.252	80.042	212640
	34.440	28.374	1.116	81.270	81.277	80.154	212660
	34.440	28.341	0.837	81.298	81.310	80.461	212680
	34.440	28.322	0.479	81.325	81.335	80.846	212700
	34.440	28.348	-0.340	81.352	81.371	81.693	212720
	34.440	28.239	-0.696	81.379	81.411	82.076	212740
	34.440	28.261	-0.776	81.407	81.407	82.183	212760
	34.440	28.204	-0.458	81.434	81.395	81.892	212780
	34.440	28.094	-0.906	81.461	81.406	82.367	212800
	34.440	28.083	-0.847	81.488	81.436	82.335	212820
	34.440	28.771	-0.784	81.516	81.461	82.299	212840
	34.440	28.407	-1.784	81.543	81.465	83.327	212860
	34.440	28.733	-0.360	81.570	81.547	81.930	212880
	34.440	29.185	-0.104	81.598	81.603	81.702	212900
	34.440	29.711	-0.751	81.625	81.634	82.376	212920
	34.440	30.454	-0.490	81.652	81.642	82.142	212940
	34.440	31.304	-0.312	81.679	81.649	81.991	212960
	34.440	32.136	-0.280	81.707	81.670	81.987	212980
	34.440	33.135	0.240	81.734	81.707	81.493	213000

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — DFCC ROW LINE
- IR-TOE — EXISTING IR TOE LINE
- TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 211/800 TO KM. 213/000

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 7 8	A1	D	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	20/07/2018	DEFINITIVE
D	03/11/2016	Ltr No.PMCS/EDFC2/LTT/2016/03677 Comments Incorporated

DRAWING STAGE

☐ FOR APPROVAL

☑ GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	04/02/2019	T.C	
CHKD.	04/02/2019		
APPD.	04/02/2019	S.MAKA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	04/02/2019	Reeshabh Gangwal	
APPD.	04/02/2019	NILCHECTH K. SINGH	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	20/02/2019	ANURANJAN PRASAD	
NOC	20/02/2019	P. AMERIKANO	

APPROVAL BY DFCC

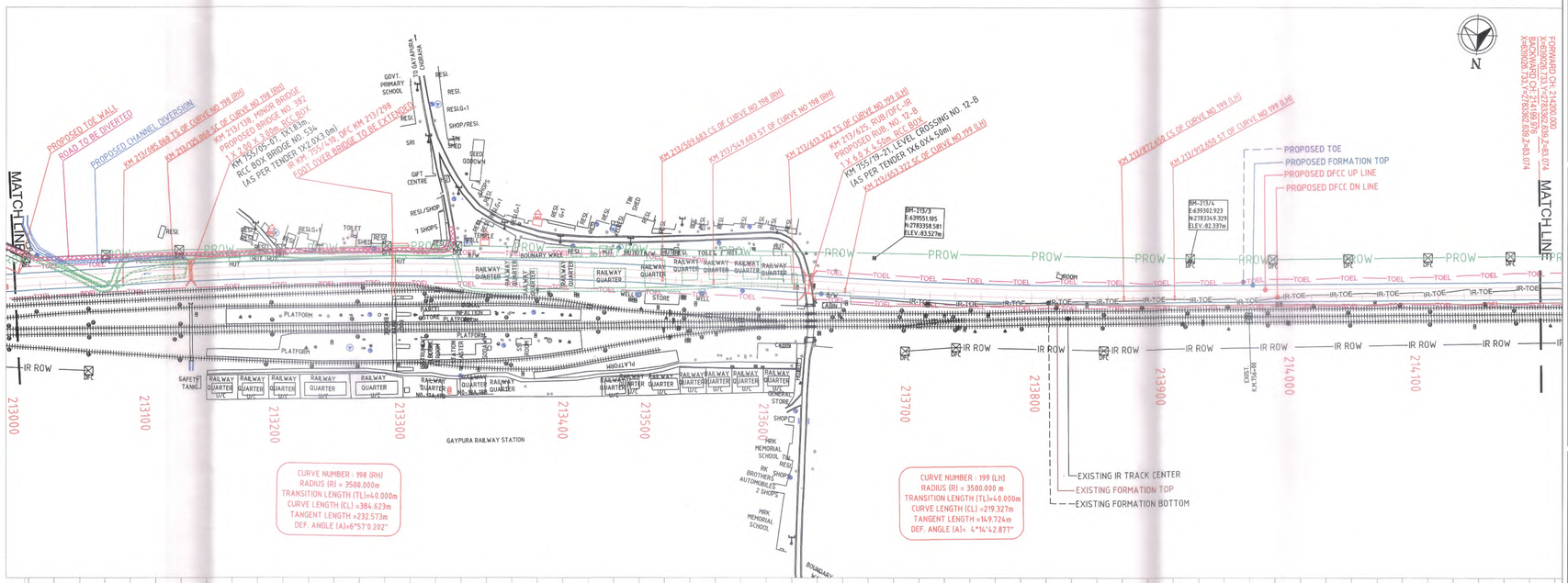
	DATE	NAME	SIGN.
CHKD.			
APPD.			

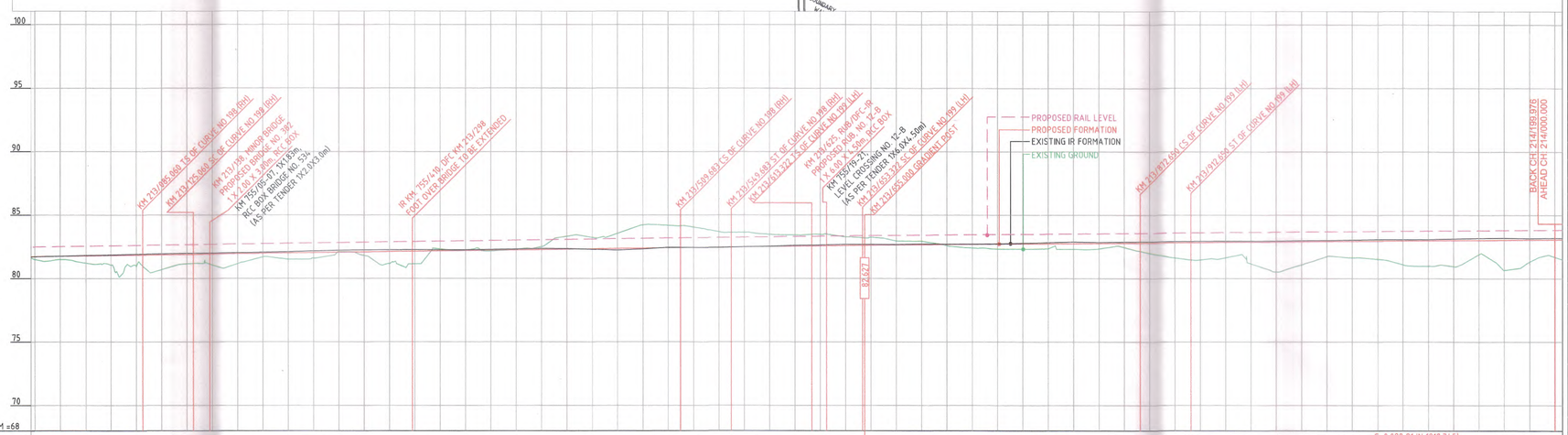
THIS DRAWING IS THE PROPERTY OF **GIL - SIL JV** IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

Chainage CH- 213000 CH- 214200

SECTION–CP–201

HOWRAH ⟵ ⟶ DELHI

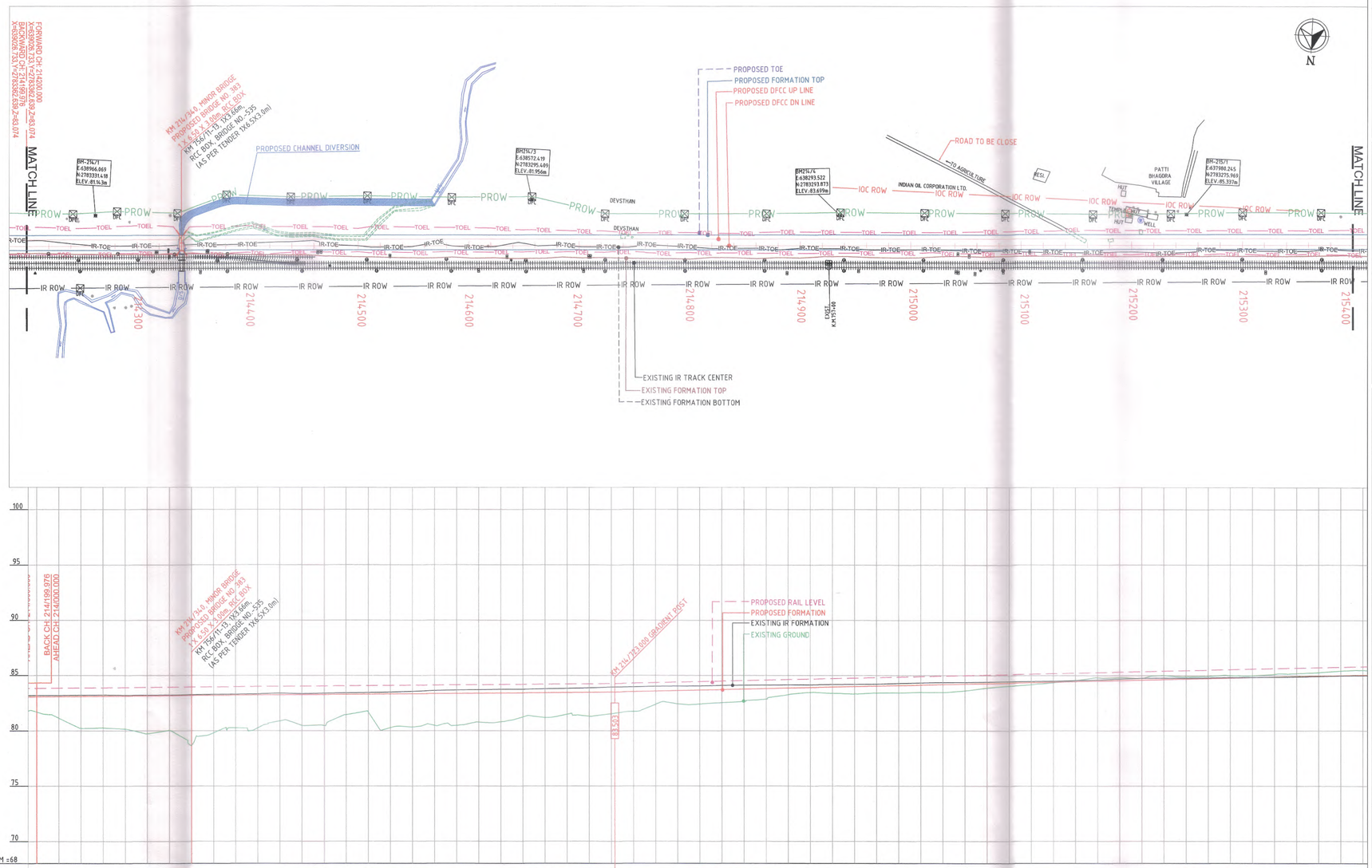




| | | |

Chainage CH- 214200 CH- 215400

HOWRAH ⬅ ➡ DELHI



VERTICAL ALIGNMENT: G=0.082 91 IN 1219.345) L=1068.000m; G=0.082 91 IN 1219.345) L=1068.000m; G=0.230 (1 IN 435.375) L=1016.000m; G=0.230 (1 IN 435.375) L=1016.000m

HORIZONTAL ALIGNMENT: L=5023.207m; L=5023.207m; L=5023.207m

CHAINAGE	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS
214199.976	15.000	15.359	1.370	83.874	83.187	81.704
214200	15.000	15.466	1.942	83.890	83.186	81.949
214220	15.000	15.589	2.869	83.907	83.228	81.037
214240	15.000	15.531	2.851	83.923	83.240	80.273
214260	15.000	15.645	2.972	83.940	83.213	80.168
214280	15.000	15.688	3.423	83.956	83.222	79.733
214300	15.000	15.671	3.151	83.972	83.229	80.022
214320	15.000	15.621	4.528	83.989	83.263	78.660
214340	15.000	15.602	3.396	84.005	83.292	79.809
214360	15.000	15.633	2.958	84.022	83.306	80.264
214380	15.000	15.588	2.983	84.038	83.337	80.256
214400	15.000	15.740	2.353	84.054	83.407	80.901
214420	15.000	15.771	2.792	84.071	83.363	80.479
214440	15.000	15.825	2.797	84.087	83.400	80.450
214460	15.000	15.607	1.861	84.104	83.431	81.643
214480	15.000	15.634	1.626	84.120	83.449	81.695
214500	15.000	15.649	3.058	84.136	83.492	80.278
214520	15.000	15.658	3.010	84.153	83.558	80.343
214540	15.000	15.761	2.869	84.169	83.642	80.501
214560	15.000	15.785	2.894	84.185	83.680	80.491
214580	15.000	15.717	2.606	84.202	83.596	80.797
214600	15.000	15.719	2.602	84.218	83.616	80.817
214620	15.000	15.777	2.179	84.235	83.753	81.256
214640	15.000	15.717	2.249	84.251	83.797	81.202
214660	15.000	15.739	1.966	84.268	83.836	81.502
214680	15.000	15.694	2.156	84.284	83.884	81.329
214700	15.000	15.724	1.954	84.301	83.945	81.546
214720	15.000	15.639	1.780	84.317	83.960	81.762
214740	15.000	15.698	1.188	84.334	83.988	82.399
214760	15.000	15.664	1.196	84.350	83.634	82.437
214780	15.000	15.685	1.254	84.367	83.680	82.426
214800	15.000	15.582	1.183	84.383	83.726	82.543
214820	15.000	15.725	1.113	84.400	83.772	82.659
214840	15.000	15.683	0.946	84.416	83.818	82.871
214860	15.000	15.751	0.595	84.433	83.864	83.268
214880	15.000	15.698	0.440	84.449	83.910	83.470
214900	15.000	15.739	0.566	84.466	83.956	83.390
214920	15.000	15.679	0.664	84.482	84.002	83.338
214940	15.000	15.746	0.626	84.499	84.047	83.421
214960	15.000	15.699	0.658	84.515	84.093	83.435
214980	15.000	15.748	0.652	84.532	84.139	83.487
215000	15.000	15.724	0.703	84.548	84.185	83.482
215020	15.000	15.774	0.613	84.565	84.231	83.618
215040	15.000	15.752	0.408	84.581	84.277	83.869
215060	15.000	15.769	0.279	84.598	84.323	84.044
215080	15.000	15.794	0.199	84.614	84.369	84.171
215100	15.000	15.750	0.045	84.631	84.415	84.371
215120	15.000	15.766	-0.095	84.647	84.461	84.555
215140	15.000	15.746	-0.305	84.664	84.507	84.596
215160	15.000	15.744	-0.263	84.680	84.553	84.816
215180	15.000	15.831	-0.165	84.697	84.599	84.763
215200	15.000	15.761	-0.370	84.713	84.645	85.014
215220	15.000	15.786	-0.207	84.730	84.691	84.897
215240	15.000	15.778	-0.216	84.746	84.737	84.952
215260	15.000	15.709	-0.226	84.763	84.783	85.009
215280	15.000	15.729	-0.176	84.779	84.829	85.005
215300	15.000	15.692	-0.252	84.796	84.874	85.126
215320	15.000	15.748	-0.285	84.812	84.920	85.205
215340	15.000	15.728	-0.332	84.829	84.966	85.298
215360	15.000	15.730	-0.422	84.845	85.012	85.435
215380	15.000	15.726	-0.432	84.862	85.058	85.491
215400	15.000					

THROUGH CHAINAGE

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — DFCC ROW LINE
- IR-TOE — EXISTING IR TOE LINE
- TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 214/200 TO KM. 215/400

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 8 0	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	20/07/2018	DEFINITIVE

DRAWING STAGE

- [ ] FOR APPROVAL
- [x] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	04/02/2019	TC	
CHKD.	04/02/2019		
APPD.	04/02/2019	S.MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	04/02/2019	Prosenjit Gangopadhyay	
APPD.	04/02/2019	NISHCETH K SINGH	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	20/02/2019	ANURANJAN PRASAD	
NOC	20/02/2019	R.AMERIKANOS	

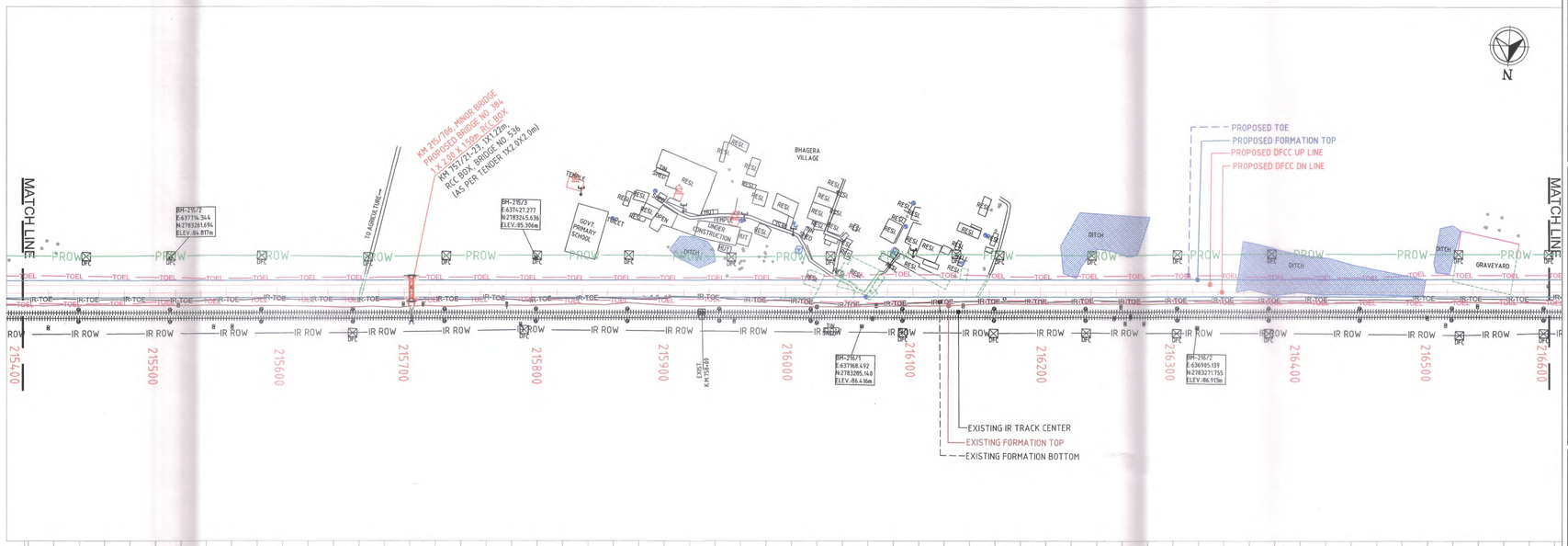
APPROVAL BY DFCC

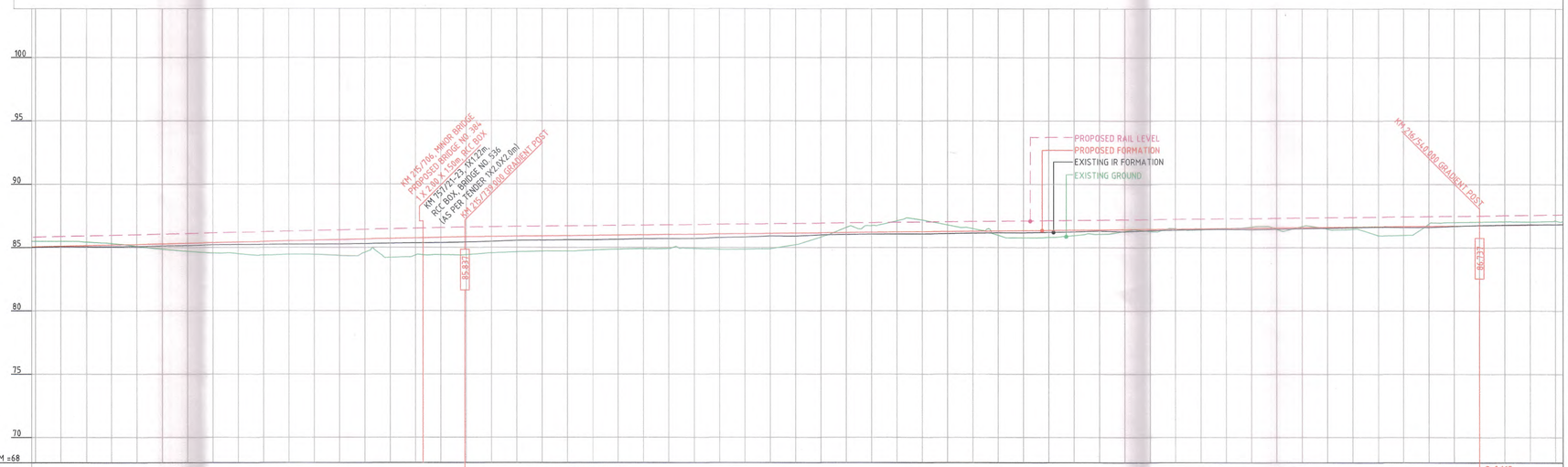
	DATE	NAME	SIGN.
CHKD.			
APPD.			

THIS DRAWING IS THE PROPERTY OF **GIL - SIL JV** IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

Chainage CH- 215400 CH- 216600

HOWRAH ⟵ ⟶ DELHI





VERTICAL ALIGNMENT	G=0.230 (1 IN 435.375) L=1016.000m	G=0.112 (1 IN 889.980) L=801.000m	G=0.112 (1 IN 889.980) L=801.000m; G=0.165 (1 IN 606.065) L=823.000m
HORIZONTAL ALIGNMENT	L=5023.207m	L=5023.207m	L=5023.207m

CHAINAGE	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS	THROUGH CHAINAGE
215400	15.000	15.726	-0.432	85.058	85.012	85.491	
215420	15.000	15.701	-0.386	85.104	85.057	85.490	
215440	15.000	15.667	-0.275	85.150	85.045	85.425	
215460	15.000	15.626	-0.122	85.196	85.052	85.319	
215480	15.000	15.683	0.151	85.242	85.067	85.091	
215500	15.000	15.661	0.411	85.288	85.111	84.876	
215520	15.000	15.717	0.633	85.334	85.143	84.700	
215540	15.000	15.729	0.811	85.380	85.207	84.568	
215560	15.000	15.711	0.911	85.426	85.226	84.514	
215580	15.000	15.668	1.069	85.472	85.236	84.403	
215600	15.000	15.640	1.059	85.518	85.246	84.459	
215620	15.000	15.657	1.107	85.564	85.255	84.456	
215640	15.000	15.672	1.238	85.610	85.268	84.371	
215660	15.000	15.658	1.031	85.656	85.291	84.624	
215680	15.000	15.650	1.484	85.701	85.326	84.278	
215700	15.000	15.579	1.347	85.747	85.353	84.400	
215720	15.000	15.571	1.369	85.793	85.372	84.425	
215740	15.000	15.536	1.408	85.838	85.411	84.430	
215760	15.000	15.643	1.297	85.861	85.463	84.563	
215780	15.000	15.610	1.238	85.883	85.535	84.645	
215800	15.000	15.676	1.197	85.906	85.560	84.708	
215820	15.000	15.667	1.208	85.928	85.590	84.720	
215840	15.000	15.674	1.148	85.950	85.586	84.802	
215860	15.000	15.671	1.108	85.973	85.623	84.865	
215880	15.000	15.580	1.097	85.995	85.673	84.898	
215900	15.000	15.572	1.105	86.018	85.681	84.913	
215920	15.000	15.559	1.122	86.040	85.689	84.919	
215940	15.000	15.584	1.207	86.063	85.775	84.856	
215960	15.000	15.621	1.223	86.085	85.821	84.863	
215980	15.000	15.540	1.214	86.108	85.902	84.894	
216000	15.000	15.501	0.911	86.130	85.892	85.220	
216020	15.000	15.666	0.336	86.153	85.989	85.816	
216040	15.000	15.629	-0.400	86.175	86.018	86.575	
216060	15.000	15.615	-0.525	86.198	86.044	86.722	
216080	15.000	15.613	-0.882	86.220	86.057	87.103	
216100	15.000	15.623	-0.928	86.243	86.057	87.170	
216120	15.000	15.583	-0.514	86.265	86.090	86.780	
216140	15.000	15.520	-0.205	86.288	86.133	86.493	
216160	15.000	15.692	0.344	86.310	86.152	85.966	
216180	15.000	15.558	0.566	86.333	86.157	85.766	
216200	15.000	15.457	0.550	86.355	86.191	85.805	
216220	15.000	15.515	0.429	86.377	86.232	85.949	
216240	15.000	15.427	0.347	86.400	86.308	86.053	
216260	15.000	15.452	0.147	86.422	86.242	86.275	
216280	15.000	15.581	0.169	86.445	86.330	86.275	
216300	15.000	15.468	-0.015	86.467	86.370	86.482	
216320	15.000	15.526	0.093	86.490	86.431	86.396	
216340	15.000	15.402	0.021	86.512	86.433	86.492	
216360	15.000	15.478	-0.098	86.535	86.446	86.632	
216380	15.000	15.505	0.102	86.557	86.452	86.455	
216400	15.000	15.585	-0.090	86.580	86.498	86.669	
216420	15.000	15.459	0.141	86.602	86.528	86.461	
216440	15.000	15.522	0.172	86.625	86.577	86.452	
216460	15.000	15.425	0.689	86.647	86.615	85.959	
216480	15.000	15.475	0.695	86.670	86.586	85.974	
216500	15.000	15.351	-0.176	86.692	86.584	86.869	
216520	15.000	15.337	-0.278	86.715	86.679	86.993	
216540	15.000	15.404	-0.287	86.737	86.758	87.025	
216560	15.000	15.450	-0.286	86.760	86.790	87.057	
216580	15.000	15.549	-0.244	86.803	86.822	87.047	
216600	15.000	15.478	-0.287	86.835	86.835	87.124	

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — DFCC ROW LINE
- IR-TOE — EXISTING IR TOE LINE
- TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 215/400 TO KM. 216/600

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 8 1	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	20/07/2018	DEFINITIVE

DRAWING STAGE

- [ ] FOR APPROVAL
- [x] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	04/02/2019	T.C	
CHKD.	04/02/2019		
APPD.	04/02/2019	S. DATTA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	04/02/2019	Reedwell Gonsalves	
APPD.	04/02/2019	NISHEETH K. SINGH	04.02.19

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	20/02/2019	ANURANJAN PRASAD	
NOC	20/02/2019	P. AMERIKANOS	

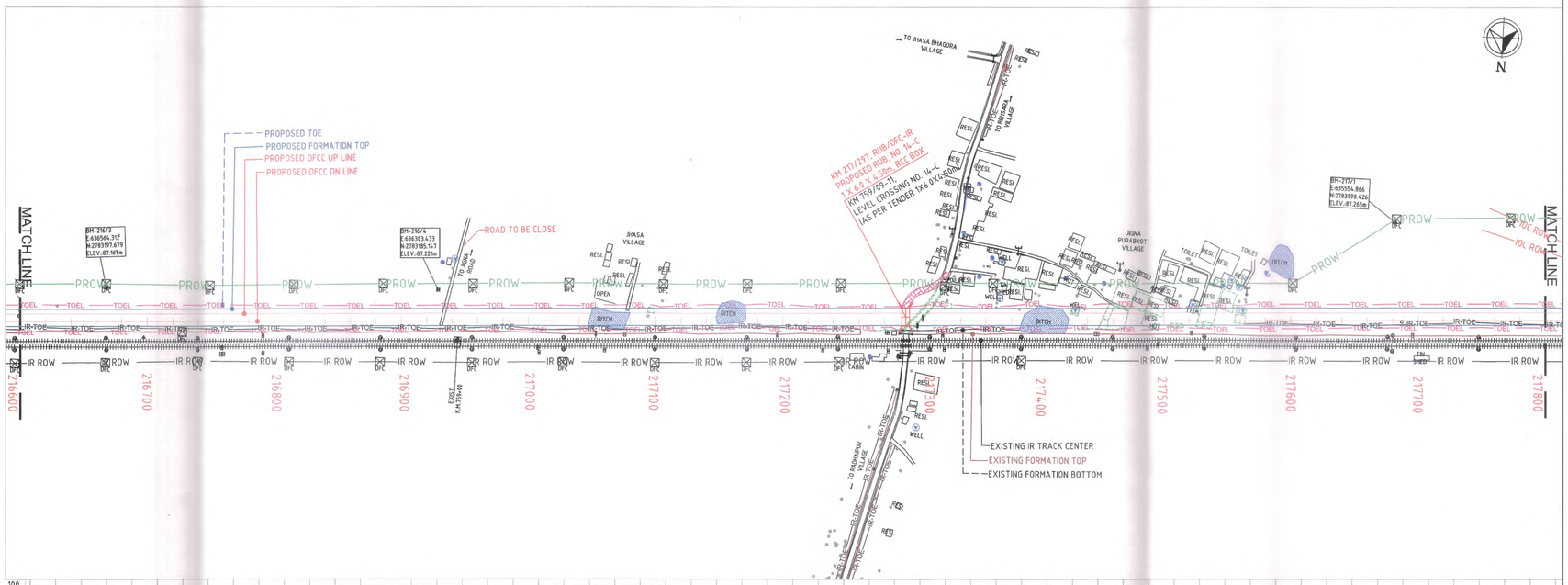
APPROVAL BY DFCC

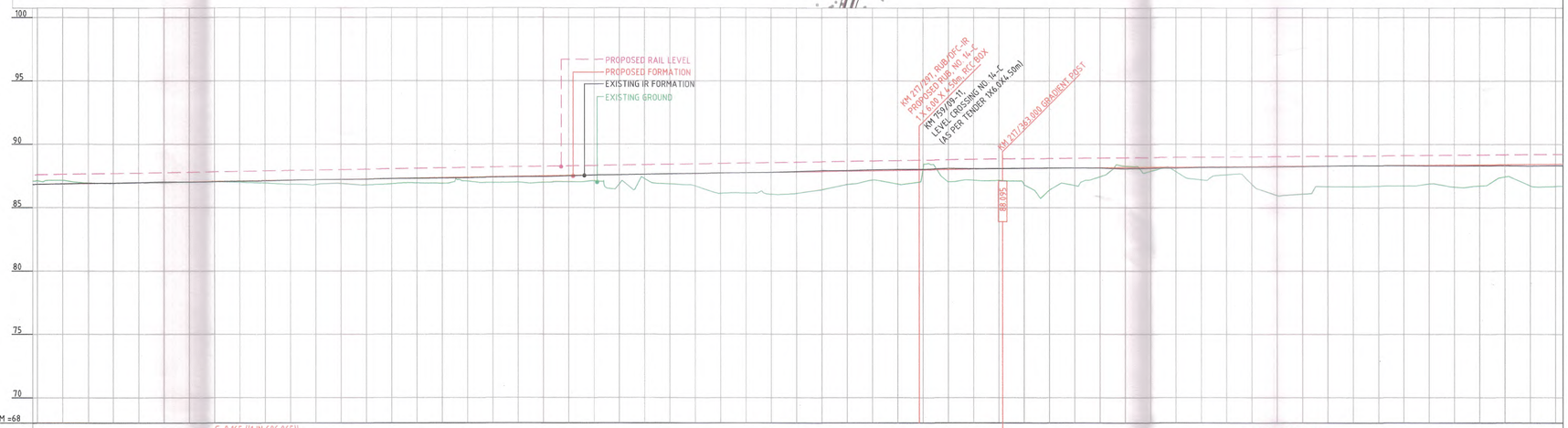
	DATE	NAME	SIGN.
CHKD.			
APPD.			

THIS DRAWING IS THE PROPERTY OF **GIL - SIL JV** IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

Chainage CH- 216600 CH- 217800

HOWRAH ← → DELHI





VERTICAL ALIGNMENT: G=0.165 ((1 IN 606.065)) L=823.000m; G=0.165 ((1 IN 606.065)) L=823.000m; G=0.001 (1 IN 1240.409) L=957.000m

HORIZONTAL ALIGNMENT: L=5023.207m; L=5023.207m; L=5023.207m

CHAINAGE	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS
216600	15.000	15.678	-0.287	86.836	86.835	87.124
216620	15.000	15.388	-0.293	86.869	86.884	87.163
216640	15.000	15.497	-0.049	86.902	86.929	86.951
216660	15.000	15.529	0.027	86.935	86.941	86.908
216680	15.000	15.540	0.006	86.968	86.970	86.963
216700	15.000	15.530	0.040	87.001	87.021	86.962
216720	15.000	15.572	0.026	87.034	87.012	87.009
216740	15.000	15.546	0.045	87.067	87.040	87.023
216760	15.000	15.538	0.090	87.100	87.071	87.010
216780	15.000	15.468	0.197	87.133	87.095	86.936
216800	15.000	15.477	0.321	87.166	87.146	86.846
216820	15.000	15.483	0.382	87.199	87.204	86.818
216840	15.000	15.511	0.330	87.232	87.220	86.903
216860	15.000	15.505	0.469	87.265	87.225	86.796
216880	15.000	15.566	0.414	87.298	87.284	86.884
216900	15.000	15.584	0.387	87.331	87.300	86.945
216920	15.000	15.586	0.448	87.364	87.325	86.916
216940	15.000	15.650	0.307	87.397	87.344	87.090
216960	15.000	15.572	0.454	87.430	87.397	86.976
216980	15.000	15.601	0.457	87.463	87.420	87.007
217000	15.000	15.586	0.518	87.496	87.435	86.979
217020	15.000	15.542	0.495	87.529	87.499	87.035
217040	15.000	15.486	0.456	87.562	87.556	87.106
217060	15.000	15.519	0.139	87.595	87.584	86.856
217080	15.000	15.551	0.342	87.628	87.621	87.287
217100	15.000	15.528	0.790	87.661	87.667	86.871
217120	15.000	15.542	0.975	87.694	87.712	86.719
217140	15.000	15.556	1.601	87.727	87.745	86.127
217160	15.000	15.508	1.603	87.760	87.760	86.158
217180	15.000	15.497	1.735	87.793	87.794	86.059
217200	15.000	15.456	1.708	87.826	87.855	86.119
217220	15.000	15.456	1.454	87.859	87.932	86.405
217240	15.000	15.511	1.053	87.892	87.933	86.839
217260	15.000	15.405	0.750	87.925	87.989	87.175
217280	15.000	15.505	1.085	87.958	88.020	86.873
217300	15.000	15.338	-0.015	87.991	88.032	88.006
217320	15.000	15.415	0.981	88.024	88.100	87.044
217340	15.000	15.360	0.888	88.057	88.082	87.170
217360	15.000	15.330	0.932	88.090	88.091	87.159
217380	15.000	15.322	1.276	88.109	88.113	86.832
217400	15.000	15.327	1.739	88.125	88.133	86.386
217420	15.000	15.328	1.382	88.141	88.143	86.758
217440	15.000	15.305	0.702	88.157	88.135	88.456
217460	15.000	15.402	-0.121	88.173	88.075	88.294
217480	15.000	15.351	0.302	88.189	88.104	87.888
217500	15.000	15.412	0.351	88.205	88.126	87.855
217520	15.000	15.389	1.019	88.221	88.164	87.202
217540	15.000	15.326	0.642	88.238	88.181	87.596
217560	15.000	15.391	1.401	88.254	88.210	86.652
217580	15.000	15.695	2.296	88.270	88.230	85.973
217600	15.000	15.939	2.210	88.286	88.247	86.076
217620	15.000	16.103	1.640	88.302	88.291	86.663
217640	15.000	16.051	1.656	88.318	88.332	86.662
217660	15.000	15.972	1.624	88.334	88.338	86.710
217680	15.000	16.003	1.626	88.350	88.319	86.725
217700	15.000	15.840	1.489	88.367	88.306	86.878
217720	15.000	15.885	1.755	88.383	88.303	86.628
217740	15.000	15.808	1.681	88.399	88.311	86.718
217760	15.000	15.801	0.976	88.415	88.322	87.439
217780	15.000	15.869	1.695	88.431	88.297	86.735
217800	15.000	15.738	1.764	88.447	88.324	86.683

THROUGH CHAINAGE

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — PROW: DFCC ROW LINE
- IR-TOE — IR-TOE: EXISTING IR TOE LINE
- TOEL — TOEL: DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 216/600 TO KM. 217/800

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 8 2	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	20/07/2018	DEFINITIVE

DRAWING STAGE

- [ ] FOR APPROVAL
- [x] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.
REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.
OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	04/02/2019	TR	
CHKD.	04/02/2019		
APPD.	04/02/2019	S.MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	04/02/2019	Prabhat Gautam	
APPD.	04/02/2019	NISHCETH K SINGH	04.02.19

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	20/02/2019	ANURANJAN PRASAD	
NOC	20/02/2019	R AMERIKANOS	

APPROVAL BY DFCC

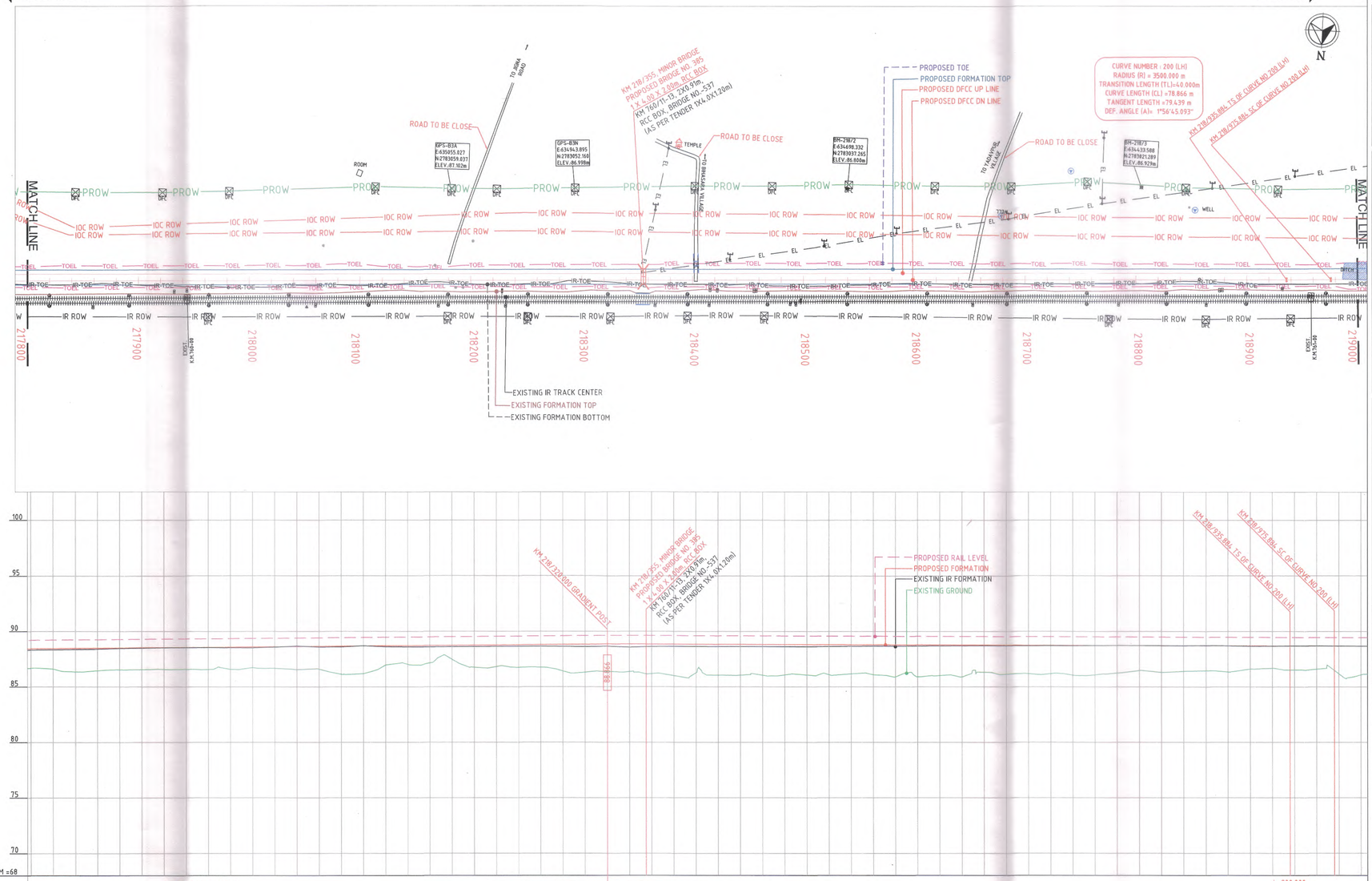
	DATE	NAME	SIGN.
CHKD.			
APPD.			

THIS DRAWING IS THE PROPERTY OF **GIL - SIL JV** IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

Chainage CH- 217800 CH- 219000

SECTION-CP-201

HOWRAH ⟵ ⟶ DELHI



VERTICAL ALIGNMENT: G=0.081 (1 IN 1240.409) L=957.000m; G=0.081 (1 IN 1240.409) L=957.000m; L=800.000m G=-0.027 (1 IN 3678.837); L=800.000m G=-0.027 (1 IN 3678.837)

HORIZONTAL ALIGNMENT: L=5023.207m; L=5023.207m; L=5023.207m; R=-3500m L=40.000m L=78.866m

CHAINAGE	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS
217800	15.000	15.738	1.764	88.447	88.324	86.683
217820	15.000	15.830	1.845	88.463	88.346	86.619
217840	15.000	15.673	2.114	88.479	88.373	86.366
217860	15.000	15.681	2.036	88.495	88.403	86.459
217880	15.000	15.759	1.968	88.512	88.462	86.544
217900	15.000	15.797	1.972	88.528	88.483	86.556
217920	15.000	15.639	1.969	88.544	88.514	86.575
217940	15.000	15.686	1.984	88.560	88.530	86.576
217960	15.000	15.656	2.004	88.576	88.541	86.571
217980	15.000	15.516	2.014	88.592	88.532	86.579
218000	15.000	15.571	1.867	88.608	88.522	86.742
218020	15.000	15.435	1.945	88.624	88.579	86.680
218040	15.000	15.514	2.081	88.640	88.681	86.559
218060	15.000	15.529	2.058	88.657	88.593	86.599
218080	15.000	15.540	2.538	88.673	88.603	86.134
218100	15.000	15.403	2.499	88.689	88.701	86.190
218120	15.000	15.390	1.735	88.705	88.612	86.969
218140	15.000	15.351	1.683	88.721	88.601	87.037
218160	15.000	15.344	1.580	88.737	88.597	87.158
218180	15.000	15.324	1.267	88.753	88.612	87.487
218200	15.000	15.303	1.998	88.769	88.629	87.771
218220	15.000	15.292	1.956	88.785	88.648	86.829
218240	15.000	15.303	2.043	88.802	88.650	86.759
218260	15.000	15.301	2.039	88.818	88.657	86.779
218280	15.000	15.264	2.404	88.834	88.639	86.429
218300	15.000	15.263	2.524	88.850	88.631	86.325
218320	15.000	15.323	2.482	88.866	88.650	86.384
218340	15.000	15.239	2.492	88.861	88.562	86.369
218360	15.000	15.342	2.669	88.855	88.626	86.186
218380	15.000	15.298	2.844	88.850	88.639	86.006
218400	15.000	15.272	2.581	88.844	88.635	86.264
218420	15.000	15.234	2.789	88.839	88.627	86.050
218440	15.000	15.229	2.781	88.833	88.622	86.052
218460	15.000	15.224	2.777	88.828	88.622	86.052
218480	15.000	15.211	2.749	88.823	88.623	86.073
218500	15.000	15.159	2.752	88.817	88.613	86.065
218520	15.000	15.174	2.714	88.812	88.632	86.097
218540	15.000	15.204	2.635	88.806	88.662	86.171
218560	15.000	15.143	2.711	88.801	88.663	86.089
218580	15.000	15.167	2.900	88.795	88.663	85.895
218600	15.000	15.170	2.886	88.790	88.672	85.905
218620	15.000	15.163	2.766	88.785	88.680	86.019
218640	15.000	15.146	2.880	88.779	88.696	85.899
218660	15.000	15.193	2.656	88.774	88.707	86.318
218680	15.000	15.269	2.622	88.768	88.701	86.136
218700	15.000	15.125	2.576	88.763	88.698	86.186
218720	15.000	15.091	2.565	88.757	88.708	86.192
218740	15.000	15.117	2.691	88.752	88.712	86.061
218760	15.000	15.123	2.658	88.747	88.725	86.089
218780	15.000	15.114	2.489	88.741	88.732	86.252
218800	15.000	15.073	2.265	88.736	88.725	86.471
218820	15.000	15.052	2.414	88.730	88.713	86.317
218840	15.000	15.037	2.317	88.725	88.713	86.408
218860	15.000	15.050	2.262	88.720	88.731	86.457
218880	15.000	15.015	2.359	88.714	88.701	86.355
218900	15.000	14.978	2.088	88.709	88.664	86.620
218920	15.000	14.980	2.020	88.703	88.675	86.684
218940	15.000	14.967	2.168	88.698	88.693	86.530
218960	15.000	14.946	2.086	88.692	88.702	86.606
218980	15.000	15.057	2.496	88.687	88.690	86.191
219000	15.000	15.203	2.597	88.682	88.676	86.085

THROUGH CHAINAGE

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — DFCC ROW LINE
- IR-TOE — EXISTING IR TOE LINE
- TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 217/800 TO KM. 219/000

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 8 3	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	20/07/2018	DEFINITIVE

DRAWING STAGE

- [ ] FOR APPROVAL
- [x] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	04/02/2019	TC	
CHKD.	04/02/2019		
APPD.	04/02/2019	S. MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	04/02/2019	Prodyut Gangopadhyay	
APPD.	04/02/2019	NISHEETH K. SINGH	04.02.19

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	20/02/2019	ANURANJAN PRASAD	
NOC	20/02/2019	R. AMERIKANOS	

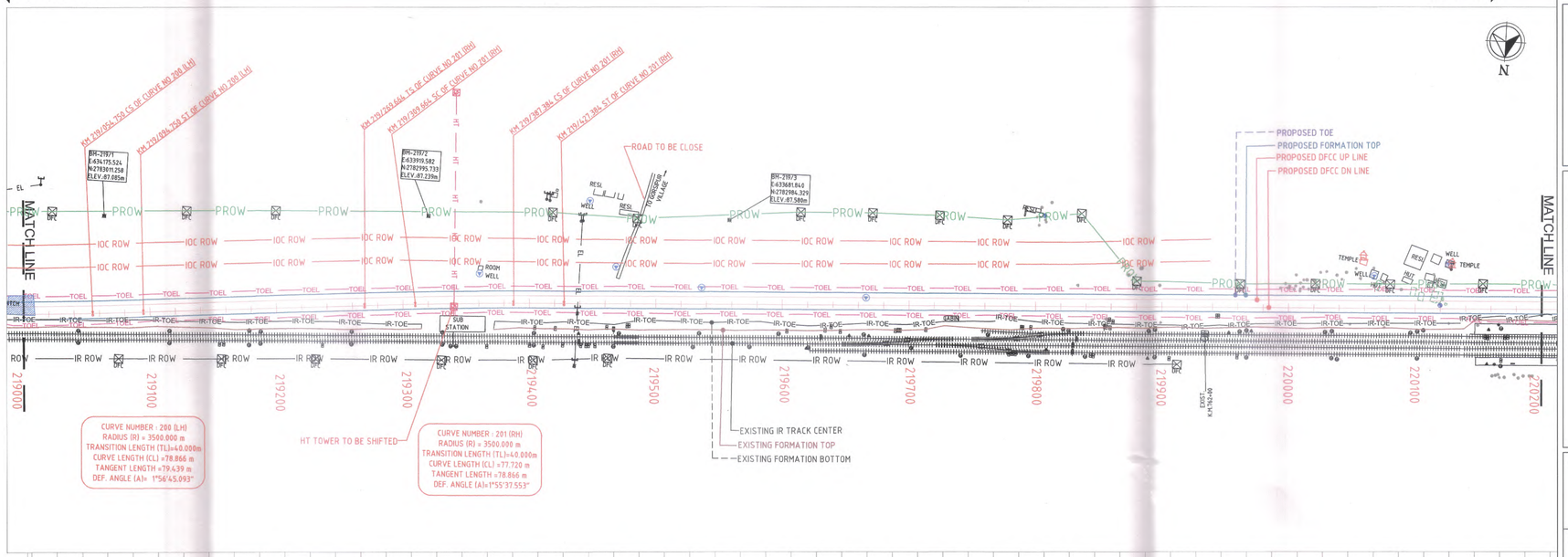
APPROVAL BY DFCC

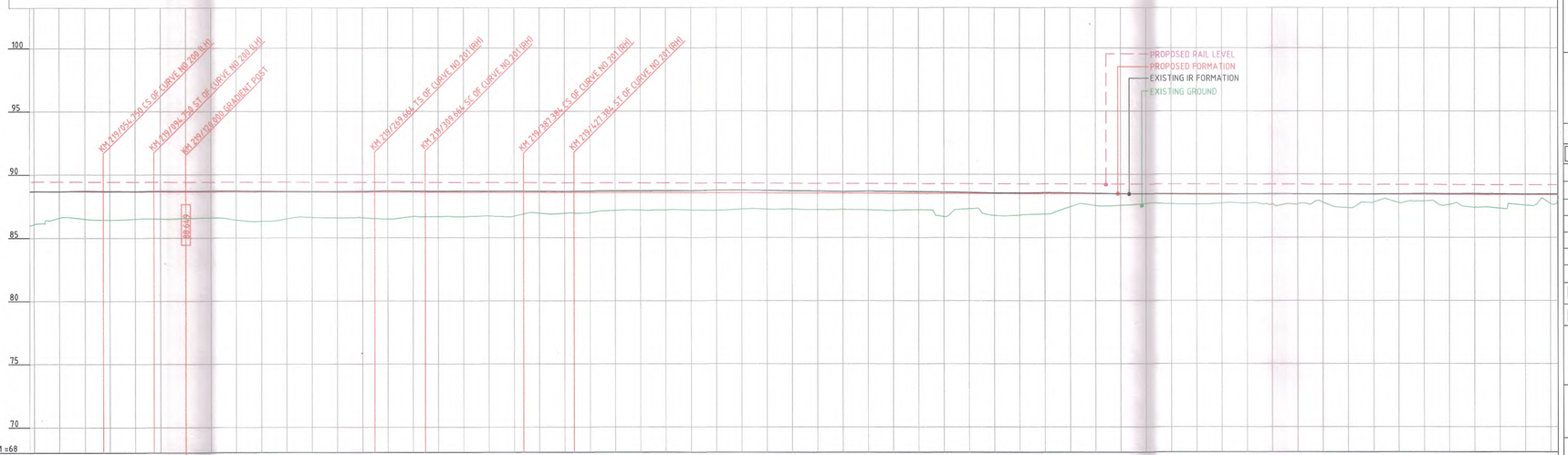
	DATE	NAME	SIGN.
CHKD.			
APPD.			

THIS DRAWING IS THE PROPERTY OF **GIL - SIL JV** IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

Chainage CH- 219000 CH-220200

HOWRAH ⟵ ⟶ DELHI





VERTICAL ALIGNMENT: L=800.000m Gz=-0.027 (1 IN 3678.837); L=1113.000m Gz=-0.025 (1 IN 3965.087); L=1113.000m Gz=-0.025 (1 IN 3965.087)

HORIZONTAL ALIGNMENT: R=-3500m L=78.866m; L=40.000m; L=174.914m; L=40.000m; R=3500.000m L=77.720m; L=40.000m; L=1143.503m; L=1143.503m

DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS	CHAINAGE
15.000	15.203	2.597	88.682	88.676	86.085	219000
15.050	15.570	2.085	88.676	88.664	86.591	219020
15.101	16.053	2.162	88.671	88.726	86.508	219040
15.446	16.567	2.235	88.665	88.692	86.430	219060
16.086	17.161	2.150	88.660	88.683	86.510	219080
16.726	17.904	2.140	88.654	88.706	86.514	219100
17.516	18.563	2.093	88.649	88.704	86.556	219120
18.306	19.167	2.058	88.644	88.710	86.595	219140
19.097	19.856	2.220	88.639	88.713	86.418	219160
19.889	20.606	2.323	88.634	88.683	86.310	219180
20.681	21.304	2.122	88.629	88.658	86.507	219200
21.300	22.007	2.011	88.624	88.648	86.612	219220
21.919	22.720	2.044	88.619	88.655	86.575	219240
22.281	23.354	2.028	88.614	88.679	86.586	219260
22.386	23.971	2.129	88.609	88.689	86.480	219280
22.491	24.601	1.920	88.604	88.680	86.683	219300
22.473	25.232	1.927	88.599	88.676	86.672	219320
22.456	25.611	1.933	88.593	88.682	86.660	219340
22.457	25.955	1.869	88.588	88.677	86.720	219360
22.476	26.166	1.885	88.583	88.672	86.699	219380
22.495	26.332	1.641	88.578	88.667	86.937	219400
22.492	26.337	1.646	88.573	88.662	86.928	219420
22.489	26.337	1.590	88.568	88.679	86.979	219440
22.488	26.304	1.411	88.563	88.692	87.053	219460
22.487	26.323	1.382	88.558	88.692	87.116	219480
22.487	26.329	1.366	88.553	88.698	87.188	219500
22.487	26.290	1.375	88.548	88.702	87.173	219520
22.488	26.311	1.392	88.543	88.730	87.151	219540
22.477	26.357	1.273	88.538	88.742	87.265	219560
22.455	26.324	1.281	88.533	88.725	87.252	219580
22.433	26.325	1.266	88.528	88.692	87.262	219600
22.446	26.261	1.307	88.523	88.679	87.216	219620
22.459	26.259	1.285	88.518	88.634	87.233	219640
22.423	26.302	1.315	88.513	88.663	87.197	219660
22.336	26.283	1.358	88.508	88.652	87.150	219680
22.249	26.278	1.294	88.503	88.620	87.208	219700
22.301	26.398	1.826	88.498	88.597	86.671	219720
22.354	26.353	1.269	88.492	88.562	87.283	219740
22.406	26.442	1.735	88.487	88.519	86.752	219760
22.457	26.503	1.704	88.482	88.522	86.778	219780
22.509	26.508	1.617	88.477	88.550	86.860	219800
22.522	26.683	1.036	88.472	88.530	87.437	219820
22.535	26.481	0.929	88.467	88.495	87.538	219840
22.548	26.516	0.916	88.462	88.455	87.547	219860
22.561	26.516	0.763	88.457	88.442	87.695	219880
22.575	26.554	0.796	88.452	88.425	87.656	219900
22.585	26.564	0.821	88.447	88.407	87.627	219920
22.594	26.568	0.728	88.442	88.407	87.714	219940
22.594	26.618	0.729	88.437	88.422	87.707	219960
22.584	26.608	0.784	88.432	88.438	87.648	219980
22.574	26.602	0.795	88.427	88.417	87.631	220000
22.573	26.624	0.640	88.422	88.410	87.782	220020
22.572	26.575	1.058	88.417	88.427	87.358	220040
22.566	26.598	0.618	88.412	88.427	87.794	220060
22.557	26.707	0.661	88.407	88.431	87.745	220080
22.547	26.635	0.514	88.402	88.451	87.888	220100
22.583	26.617	0.797	88.397	88.445	87.600	220120
22.618	26.760	1.064	88.391	88.458	87.387	220140
22.637	26.884	1.071	88.386	88.439	87.376	220160
22.640	26.743	0.823	88.381	88.424	87.558	220180
22.643	26.738	0.680	88.376	88.426	87.696	220200

THROUGH CHAINAGE

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — DFCC ROW LINE
- IR-TOE — EXISTING IR TOE LINE
- TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 219/000 TO KM. 220/200

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 8 4	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	20/07/2018	DEFINITIVE

DRAWING STAGE

- [ ] FOR APPROVAL
- [x] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	04/02/2019	T.C	
CHKD.	04/02/2019		
APPD.	04/02/2019	S.MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	04/02/2019	Deepak Gupta	
APPD.	04/02/2019	NISHEETH K. SINGH	04.02.19

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	20/02/2019	ANURANJAN PRASAD	
NOC	20/02/2019	P. AMERIKANOS	

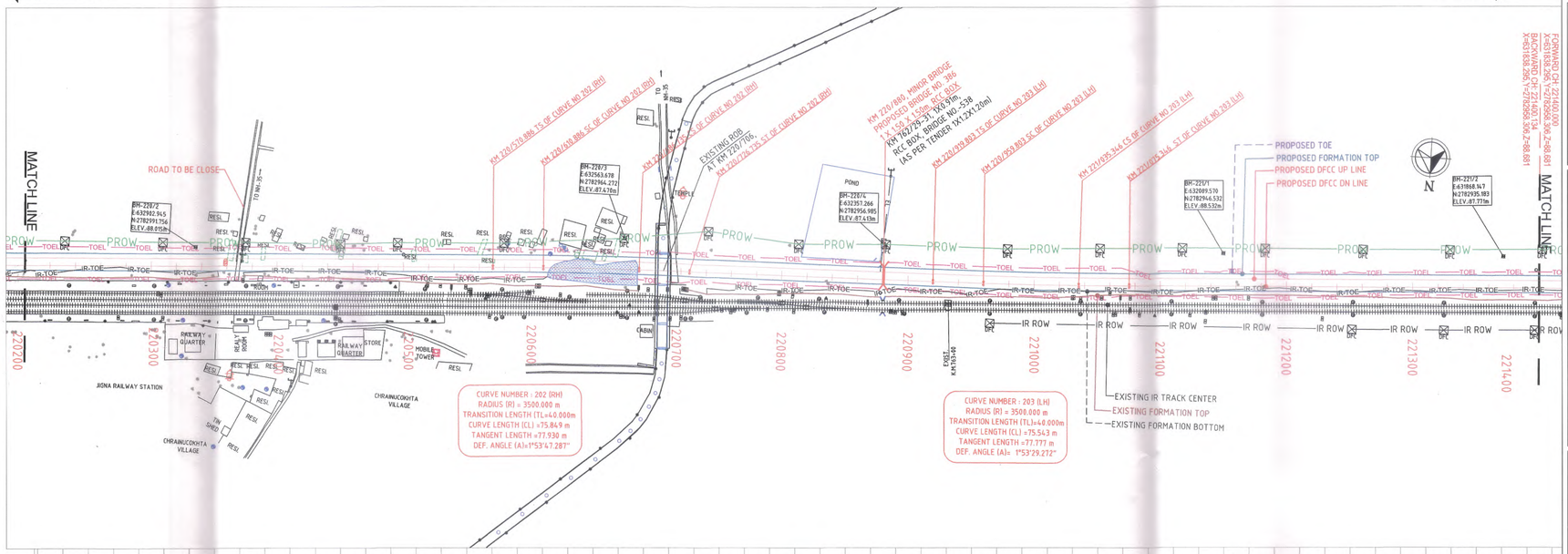
APPROVAL BY DFCC

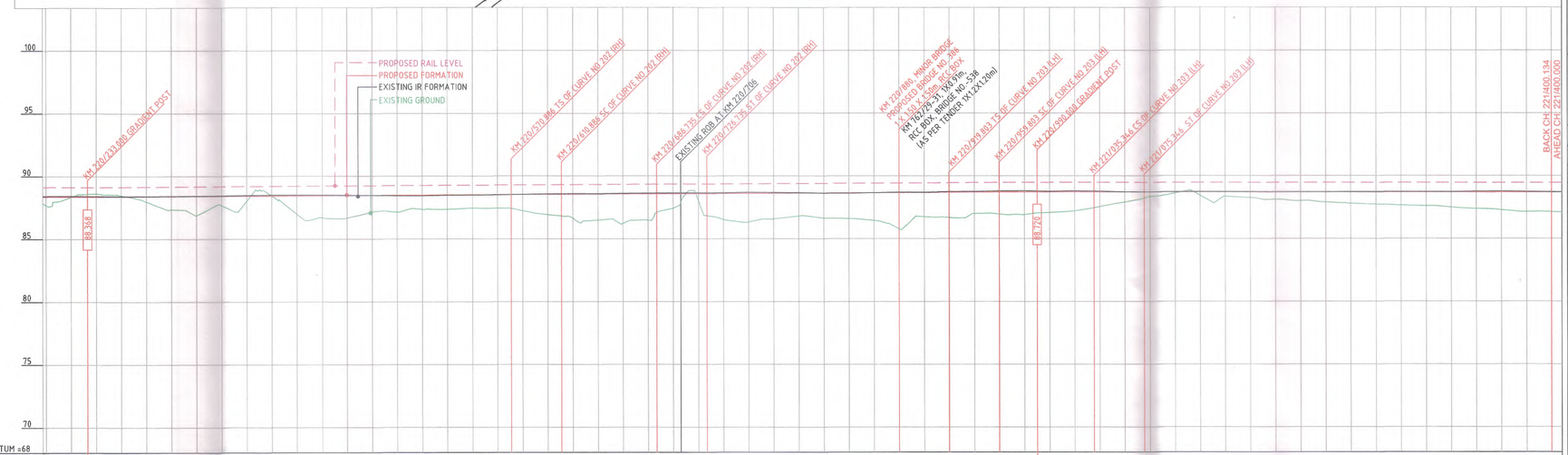
	DATE	NAME	SIGN.
CHKD.			
APPD.			

THIS DRAWING IS THE PROPERTY OF **GIL - SIL JV** IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

Chainage CH-220200 CH-221400

HOWRAH ⬅ ➡ DELHI





SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — DFCC ROW LINE
- IR-TOE — EXISTING IR TOE LINE
- TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 220/200 TO KM. 221/400

DRAWING NO.							SIZE	REV	SCALE
D	2	AL	0	0	8	5	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	20/07/2018	DEFINITIVE

DRAWING STAGE

- [ ] FOR APPROVAL
- [x] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	02/02/2019	TC	
CHKD.	04/02/2019		
APPD.	04/02/2019	S.MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	04/02/2019	Deepak Gangwar	
APPD.	04/02/2019	MISHEC7 H.N.SINKSA	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	20/02/2019	ANURANJAN PRASAD	
NOC	20/02/2019	P. AMERIKANOS	

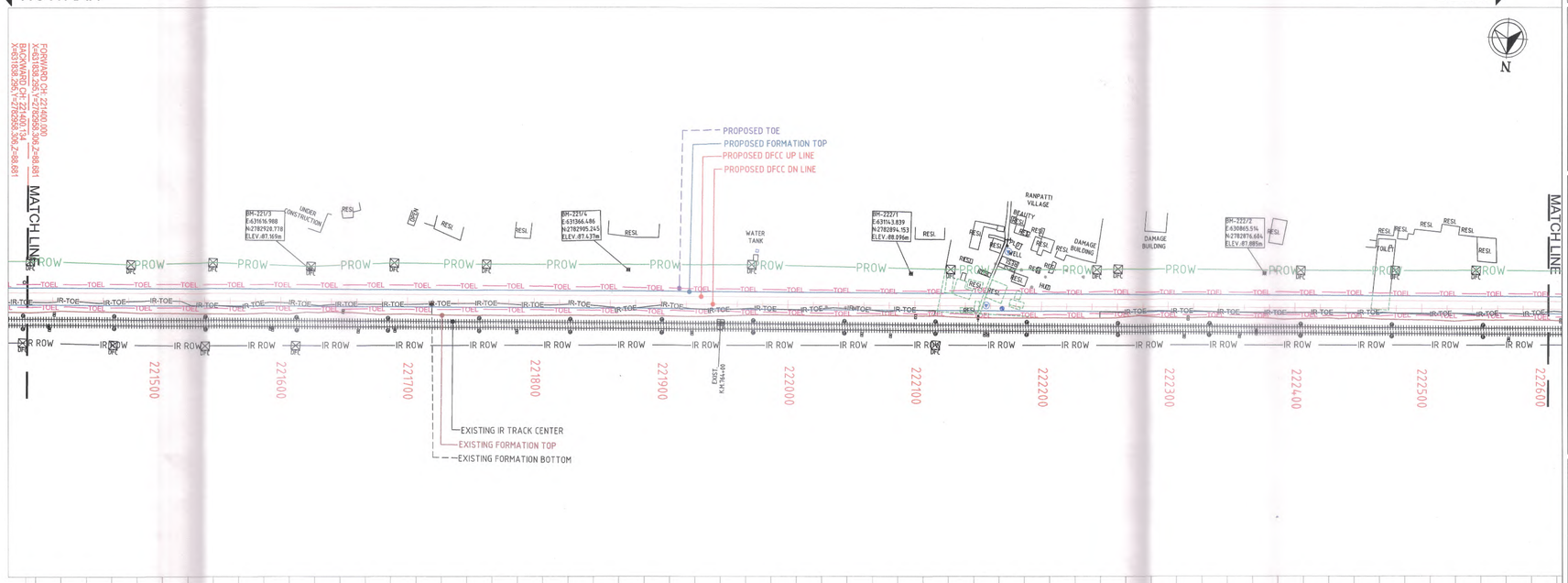
APPROVAL BY DFCC

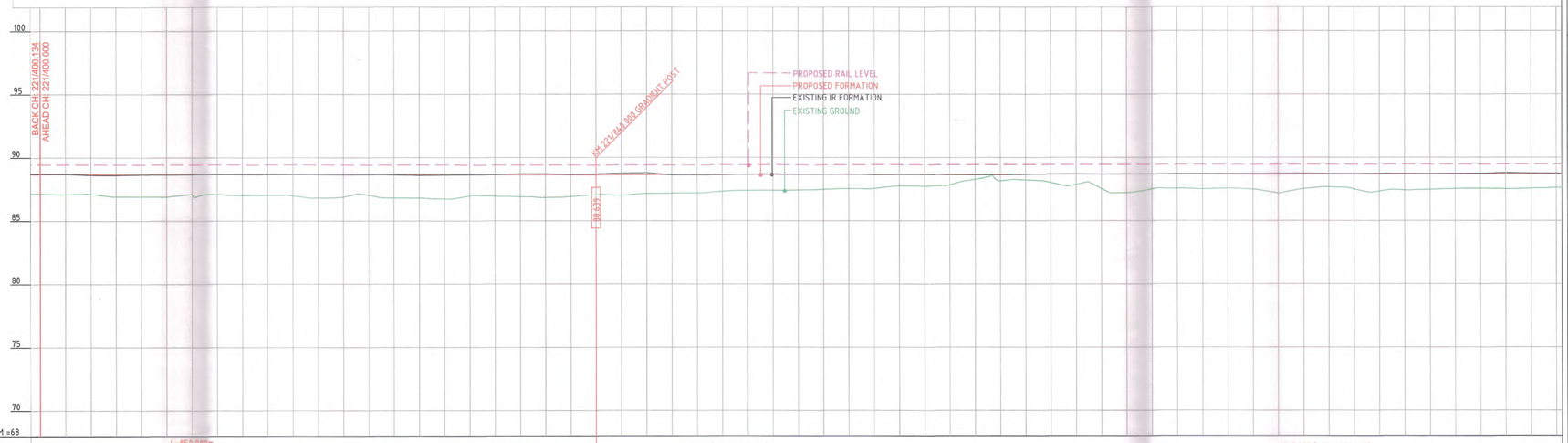
	DATE	NAME	SIGN.
CHKD.			
APPD.			

THIS DRAWING IS THE PROPERTY OF **GIL - SIL JV** IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

Chainage CH- 221400 CH-222600

HOWRAH ← → DELHI





VERTICAL ALIGNMENT: L=850.000m G=-0.010 91 IN 10442.260) | L=850.000m G=-0.010 91 IN 10442.260) | G=0.008 (1 IN 12007.423) L=1100.000m | G=0.008 (1 IN 12007.423) L=1100.000m

HORIZONTAL ALIGNMENT: L=4461.567m | L=4461.567m | L=4461.567m

CHAINAGE	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS
221400	15.000	14.795	1.542	88.681	88.710	87.138
221420	15.000	14.843	1.584	88.679	88.695	87.096
221440	15.000	14.717	1.555	88.677	88.674	87.122
221460	15.000	14.736	1.757	88.675	88.606	86.918
221480	15.000	15.025	1.753	88.673	88.647	86.920
221500	15.000	15.138	1.763	88.671	88.635	86.908
221520	15.000	15.652	1.548	88.669	88.645	87.122
221540	15.000	15.039	1.564	88.668	88.684	87.104
221560	15.000	15.051	1.652	88.666	88.687	87.013
221580	15.000	15.089	1.628	88.664	88.683	87.035
221600	15.000	15.024	1.673	88.662	88.659	86.989
221620	15.000	15.067	1.825	88.660	88.661	86.835
221640	15.000	14.917	1.768	88.658	88.652	86.891
221660	15.000	15.069	1.621	88.656	88.661	87.035
221680	15.000	14.949	1.828	88.654	88.648	86.827
221700	15.000	14.950	1.832	88.652	88.602	86.820
221720	15.000	15.034	1.914	88.650	88.627	86.737
221740	15.000	15.024	1.670	88.649	88.648	86.979
221760	15.000	14.986	1.691	88.647	88.660	86.956
221780	15.000	15.023	1.732	88.645	88.725	86.992
221800	15.000	15.066	1.794	88.643	88.715	86.849
221820	15.000	15.118	1.713	88.641	88.683	86.928
221840	15.000	15.203	1.574	88.639	88.692	87.066
221860	15.000	15.301	1.615	88.641	88.762	87.025
221880	15.000	15.233	1.468	88.642	88.801	87.174
221900	15.000	15.330	1.459	88.644	88.628	87.185
221920	15.000	15.110	1.449	88.646	88.613	87.197
221940	15.000	15.082	1.327	88.647	88.612	87.320
221960	15.000	15.113	1.254	88.649	88.659	87.396
221980	15.000	15.166	1.245	88.651	88.689	87.405
222000	15.000	15.205	1.231	88.652	88.669	87.422
222020	15.000	15.202	1.177	88.654	88.662	87.477
222040	15.000	15.169	1.121	88.656	88.677	87.535
222060	15.000	15.157	1.105	88.657	88.628	87.552
222080	15.000	15.195	0.905	88.659	88.652	87.755
222100	15.000	15.287	0.927	88.661	88.653	87.733
222120	15.000	15.236	0.819	88.662	88.637	87.843
222140	15.000	15.175	0.389	88.664	88.622	88.275
222160	15.000	15.285	0.517	88.666	88.632	88.148
222180	15.000	15.310	0.447	88.667	88.657	88.221
222200	15.000	15.226	0.654	88.669	88.680	88.015
222220	15.000	15.296	0.756	88.671	88.691	87.874
222240	15.000	15.286	1.135	88.672	88.669	87.537
222260	15.000	15.297	1.456	88.674	88.689	87.218
222280	15.000	15.286	1.165	88.676	88.677	87.511
222300	15.000	15.147	1.111	88.677	88.702	87.567
222320	15.000	15.185	1.160	88.679	88.706	87.520
222340	15.000	15.175	1.107	88.681	88.723	87.574
222360	15.000	15.235	1.191	88.682	88.727	87.492
222380	15.000	15.206	1.497	88.684	88.742	87.188
222400	15.000	15.186	1.150	88.686	88.743	87.535
222420	15.000	15.184	1.012	88.688	88.719	87.675
222440	15.000	15.223	1.179	88.689	88.725	87.510
222460	15.000	15.259	1.345	88.691	88.738	87.346
222480	15.000	15.231	1.254	88.693	88.728	87.438
222500	15.000	15.250	1.214	88.694	88.719	87.481
222520	15.000	15.282	1.160	88.696	88.741	87.535
222540	15.000	15.244	1.138	88.698	88.737	87.559
222560	15.000	15.228	1.176	88.699	88.765	87.524
222580	15.000	15.207	1.137	88.701	88.765	87.564
222600	15.000	15.155	1.087	88.703	88.744	87.615

THROUGH CHAINAGE

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — DFCC ROW LINE
- IR-TOE — EXISTING IR TOE LINE
- TOEL — DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 221/400 TO KM. 222/600

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0086	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	20/07/2018	DEFINITIVE

DRAWING STAGE

- [ ] FOR APPROVAL
- [x] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	04/02/2019	TC	
CHKD.	04/02/2019		
APPD.	04/02/2019	S. MINDA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	04/02/2019	Rosehill Gangopadhyay	
APPD.	06/02/2019	NISHEETH K. SINGH	07.02.19

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	20/02/2019	ANURANJAN PRASAD	
NOC	20/02/2019	P. AMERIKANOS	

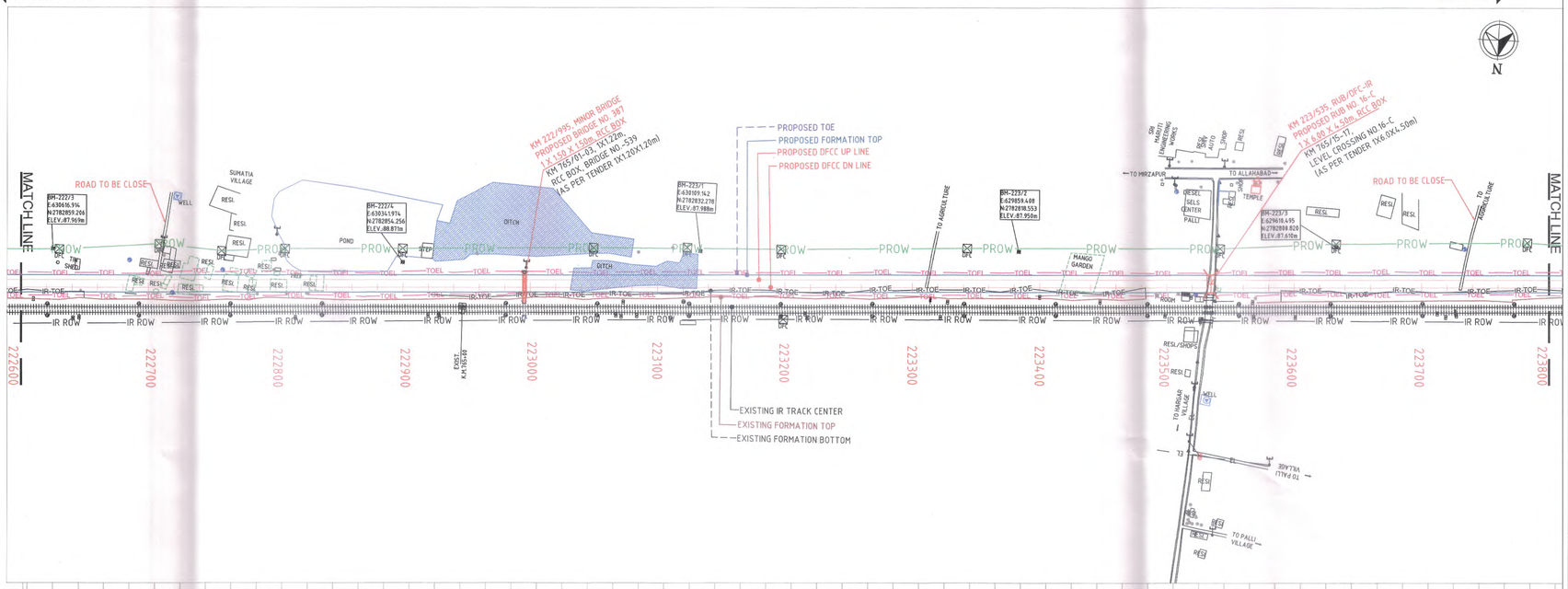
APPROVAL BY DFCC

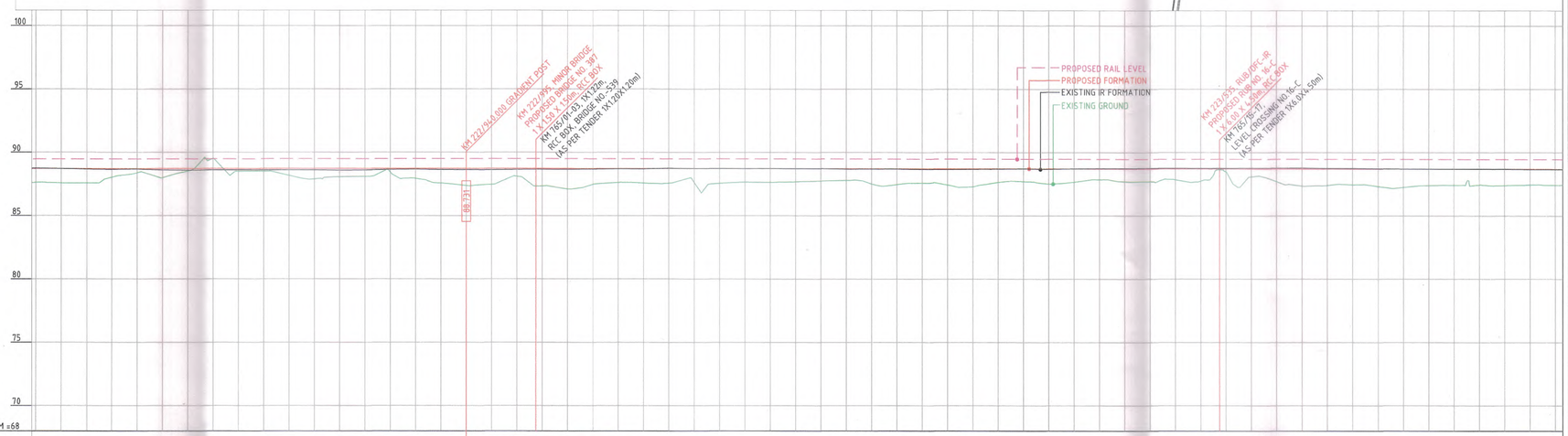
	DATE	NAME	SIGN.
CHKD.			
APPD.			

THIS DRAWING IS THE PROPERTY OF **GIL - SIL JV** IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

Chainage CH- 222600 CH-223800

HOWRAH ⬅ ➡ DELHI





VERTICAL ALIGNMENT: G=0.008 (1 IN 12007.423), L=1100.000m; L=1245.000m, G=-0.004 (1 IN 22636.364); L=1245.000m, G=-0.004 (1 IN 22636.364)

HORIZONTAL ALIGNMENT: L=4461.567m; L=4461.567m; L=4461.567m

CHAINAGE	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS
222600	15.000	15.155	1.087	88.703	88.744	87.615
222620	15.000	15.219	1.130	88.704	88.707	87.575
222640	15.000	15.265	1.136	88.706	88.663	87.569
222660	15.000	15.286	0.682	88.708	88.650	88.025
222680	15.000	15.303	0.325	88.709	88.668	88.385
222700	15.000	15.282	0.712	88.711	88.599	87.999
222720	15.000	15.329	0.193	88.713	88.583	88.519
222740	15.000	15.377	-0.786	88.714	88.601	89.500
222760	15.000	15.256	0.218	88.716	88.603	88.498
222780	15.000	15.390	0.214	88.718	88.594	88.503
222800	15.000	15.289	0.550	88.719	88.605	88.169
222820	15.000	15.253	0.824	88.721	88.605	87.896
222840	15.000	15.279	0.660	88.723	88.583	88.062
222860	15.000	15.244	0.633	88.724	88.584	88.092
222880	15.000	15.251	0.294	88.726	88.638	88.431
222900	15.000	15.251	0.788	88.728	88.653	87.939
222920	15.000	15.267	1.166	88.729	88.632	87.563
222940	15.000	15.276	1.358	88.731	88.622	87.314
222960	15.000	15.348	1.260	88.730	88.613	87.470
222980	15.000	15.407	0.629	88.729	88.637	88.101
223000	15.000	15.340	1.383	88.728	88.652	87.345
223020	15.000	15.291	1.623	88.727	88.652	87.105
223040	15.000	15.375	1.259	88.727	88.661	87.467
223060	15.000	15.328	1.110	88.726	88.689	87.616
223080	15.000	15.390	1.153	88.725	88.684	87.571
223100	15.000	15.371	1.162	88.724	88.750	87.561
223120	15.000	15.432	1.100	88.723	88.723	87.624
223140	15.000	15.436	1.167	88.722	88.726	87.556
223160	15.000	15.382	1.072	88.721	88.703	87.649
223180	15.000	15.350	1.088	88.720	88.720	87.632
223200	15.000	15.359	1.044	88.720	88.711	87.676
223220	15.000	15.350	0.979	88.719	88.716	87.739
223240	15.000	15.252	0.927	88.718	88.676	87.790
223260	15.000	15.276	1.208	88.717	88.679	87.509
223280	15.000	15.317	1.251	88.716	88.686	87.465
223300	15.000	15.308	1.147	88.715	88.663	87.569
223320	15.000	15.326	1.278	88.714	88.652	87.437
223340	15.000	15.370	1.429	88.713	88.669	87.285
223360	15.000	15.393	1.071	88.712	88.693	87.642
223380	15.000	15.377	1.011	88.712	88.708	87.701
223400	15.000	15.370	1.202	88.711	88.682	87.508
223420	15.000	15.367	1.051	88.710	88.709	87.659
223440	15.000	15.357	0.845	88.709	88.740	87.863
223460	15.000	15.365	1.018	88.708	88.749	87.690
223480	15.000	15.317	1.015	88.707	88.760	87.693
223500	15.000	15.482	0.856	88.706	88.754	87.851
223520	15.000	15.405	0.963	88.705	88.752	87.743
223540	15.000	15.301	0.226	88.704	88.759	88.478
223560	15.000	15.313	0.621	88.704	88.768	88.082
223580	15.000	15.364	0.996	88.703	88.762	87.706
223600	15.000	15.336	1.340	88.702	88.773	87.361
223620	15.000	15.277	1.297	88.701	88.751	87.404
223640	15.000	15.296	1.245	88.700	88.747	87.455
223660	15.000	15.264	1.373	88.699	88.726	87.327
223680	15.000	15.247	1.451	88.698	88.692	87.247
223700	15.000	15.259	1.299	88.697	88.687	87.399
223720	15.000	15.274	1.280	88.697	88.687	87.417
223740	15.000	15.241	1.248	88.696	88.688	87.447
223760	15.000	15.260	1.293	88.695	88.678	87.402
223780	15.000	15.339	1.241	88.694	88.668	87.453
223800	15.000	15.255	1.270	88.693	88.665	87.424

THROUGH CHAINAGE

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — PROW: DFCC ROW LINE
- IR-TOE — IR-TOE: EXISTING IR TOE LINE
- TOEL — TOEL: DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER : DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE : ALIGNMENT PLAN & PROFILE FROM KM. 222/600 TO KM. 223/800

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 8 7	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	20/07/2018	DEFINITIVE

DRAWING STAGE

- [ ] FOR APPROVAL
- [x] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	01/02/2019	T.C	
CHKD.	01/02/2019		
APPD.	01/02/2019	S. MITRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	01/02/2019	Deepjyoti Gogoloi	
APPD.	01/02/2019	NISHEETHK. SINGH	01/02/19

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	20/02/2019	ANURANJAN PRASAD	
NOC	20/02/2019	P. AMERIKANOS	

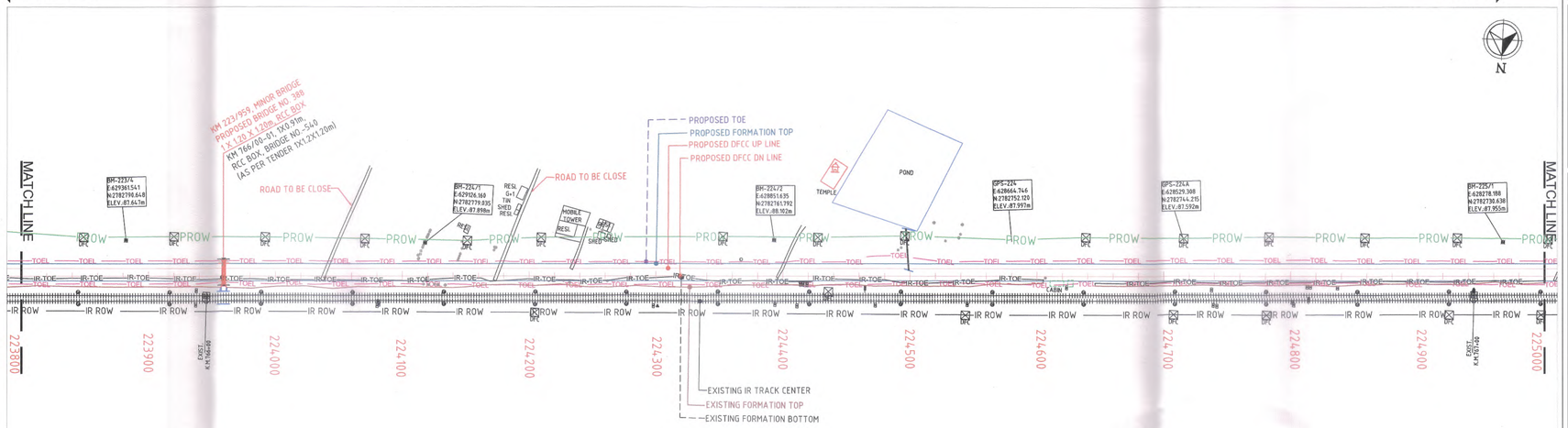
APPROVAL BY DFCC

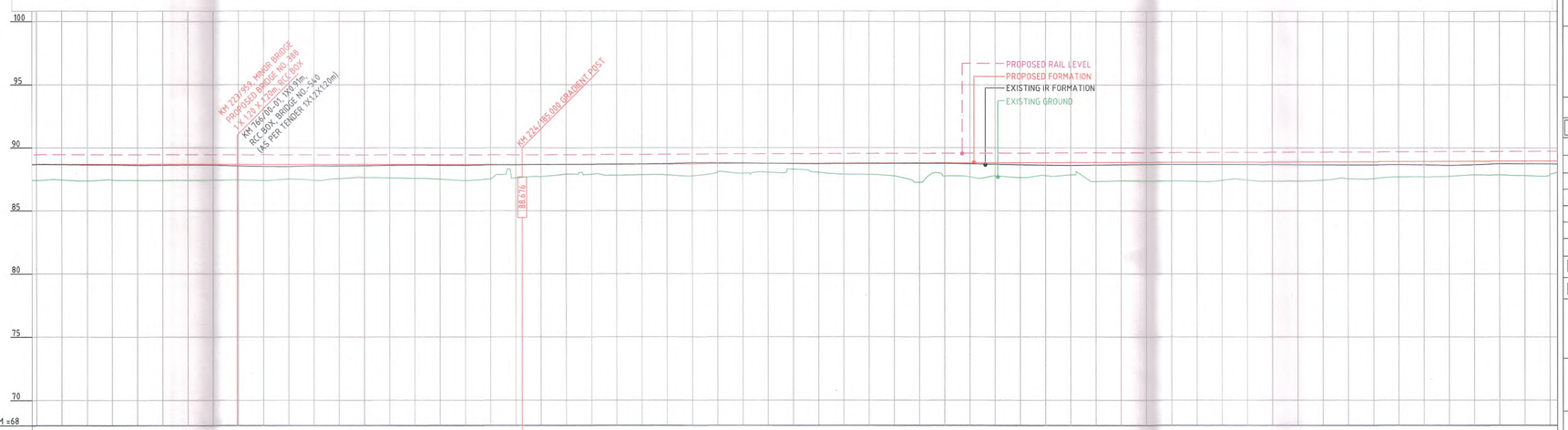
	DATE	NAME	SIGN.
CHKD.			
APPD.			

THIS DRAWING IS THE PROPERTY OF **GIL - SIL JV** IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

Chainage CH- 223800 CH-225000

HOWRAH ⟵ ⟶ DELHI





VERTICAL ALIGNMENT	L=1245.000m G=-0.004 (1 IN 22636.364); G=0.036 (1 IN 2771.981) L=1315.000m; G=0.036 (1 IN 2771.981) L=1315.000m
HORIZONTAL ALIGNMENT	L=4461.567m; L=4461.567m

DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER DESIGN	FILL (+)/ CUT (-)	PROPOSED FORMATION LEVELS	EXIST. IR FORMATION LEVELS	GROUND LEVELS	CHAINAGE
15.000	15.255	1.210	88.693	88.665	87.424	223800
15.000	15.250	1.235	88.692	88.659	87.457	223820
15.000	15.245	1.306	88.691	88.639	87.385	223840
15.000	15.269	1.243	88.690	88.647	87.448	223860
15.000	15.329	1.277	88.689	88.593	87.412	223880
15.000	15.331	1.274	88.689	88.604	87.414	223900
15.000	15.381	1.266	88.688	88.623	87.421	223920
15.000	15.318	1.236	88.687	88.623	87.451	223940
15.000	15.328	1.225	88.686	88.560	87.461	223960
15.000	15.313	1.274	88.685	88.524	87.412	223980
15.000	15.311	1.159	88.684	88.512	87.526	224000
15.000	15.282	1.252	88.683	88.562	87.432	224020
15.000	15.369	1.117	88.682	88.556	87.565	224040
15.000	15.291	1.029	88.682	88.575	87.653	224060
15.000	15.293	1.065	88.681	88.607	87.616	224080
15.000	15.192	1.100	88.680	88.622	87.580	224100
15.000	15.241	1.166	88.679	88.613	87.512	224120
15.000	15.235	1.208	88.678	88.615	87.410	224140
15.000	15.297	1.128	88.677	88.646	87.549	224160
15.000	15.292	1.068	88.676	88.649	87.608	224180
15.000	15.291	0.964	88.681	88.674	87.717	224200
15.000	15.267	0.773	88.689	88.683	87.915	224220
15.000	15.238	0.785	88.696	88.683	87.911	224240
15.000	15.329	0.875	88.703	88.690	87.829	224260
15.000	15.233	0.840	88.710	88.708	87.870	224280
15.000	15.373	0.865	88.717	88.737	87.853	224300
15.000	15.306	0.955	88.725	88.804	87.770	224320
15.000	15.244	0.663	88.732	88.779	88.068	224340
15.000	15.249	0.767	88.739	88.772	87.972	224360
15.000	15.238	0.708	88.746	88.751	88.039	224380
15.000	15.268	0.664	88.753	88.729	88.289	224400
15.000	15.188	0.713	88.761	88.713	88.048	224420
15.000	15.175	0.867	88.768	88.723	87.901	224440
15.000	15.149	0.889	88.775	88.728	87.887	224460
15.000	15.176	1.013	88.782	88.749	87.770	224480
15.000	15.180	1.526	88.790	88.763	87.263	224500
15.000	15.194	1.037	88.797	88.748	87.759	224520
15.000	15.171	1.114	88.804	88.715	87.690	224540
15.000	15.218	1.031	88.811	88.681	87.781	224560
15.000	15.146	1.180	88.818	88.649	87.639	224580
15.000	15.133	1.023	88.826	88.612	87.802	224600
15.000	15.172	0.970	88.833	88.595	87.862	224620
15.000	15.155	1.502	88.840	88.621	87.339	224640
15.000	15.116	1.465	88.847	88.652	87.382	224660
15.000	15.138	1.480	88.854	88.674	87.375	224680
15.000	15.132	1.482	88.862	88.683	87.379	224700
15.000	15.161	1.517	88.869	88.683	87.351	224720
15.000	15.159	1.453	88.876	88.682	87.424	224740
15.000	15.136	1.418	88.883	88.682	87.465	224760
15.000	15.131	1.518	88.890	88.669	87.372	224780
15.000	15.122	1.520	88.898	88.657	87.378	224800
15.000	15.195	1.436	88.905	88.655	87.448	224820
15.000	15.181	1.359	88.912	88.644	87.554	224840
15.000	15.227	1.346	88.919	88.654	87.573	224860
15.000	15.275	1.275	88.927	88.663	87.702	224880
15.000	15.127	1.228	88.934	88.653	87.706	224900
15.000	15.112	1.183	88.941	88.611	87.758	224920
15.000	15.168	1.076	88.948	88.668	87.873	224940
15.000	15.117	1.085	88.955	88.741	87.871	224960
15.000	15.288	1.149	88.963	88.733	87.814	224980
15.000	15.151	1.082	88.970	88.732	87.887	225000

THROUGH CHAINAGE

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW — PROW: DFCC ROW LINE
- IR-TOE — IR-TOE: EXISTING IR TOE LINE
- TOEL — TOEL: DFCC TOE LINE

NOTES:-

1. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
2. ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
3. TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
4. CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
6. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
7. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
8. PUBLIC UTILITIES,HT/LT LINES,ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
9. AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
10. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 201)

TITLE :

ALIGNMENT PLAN & PROFILE

FROM KM. 223/800 TO KM. 225/000

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 8 8	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS

REV	DATE	REMARKS
0	20/07/2018	DEFINITIVE

DRAWING STAGE

- [ ] FOR APPROVAL
- [x] GOOD FOR CONSTRUCTION

PMC : SYSTRA - Mott MacDonald JV

CONTRACTOR : GIL - SIL JV

DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.

REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	04/02/2019		
CHKD.	04/02/2019		
APPD.	04/02/2019	S. MISRA	

SUBMITTED BY GIL-SIL JV

	DATE	NAME	SIGN.
CHKD.	04/02/2019	Deepshikha Gangopadhyay	
APPD.	04/02/2019	NISHEETH K SINGH	

NOC BY SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	20/02/2019	ANURANJAN PRASAD	
NOC	20/02/2019	P. AMERIKANOS	

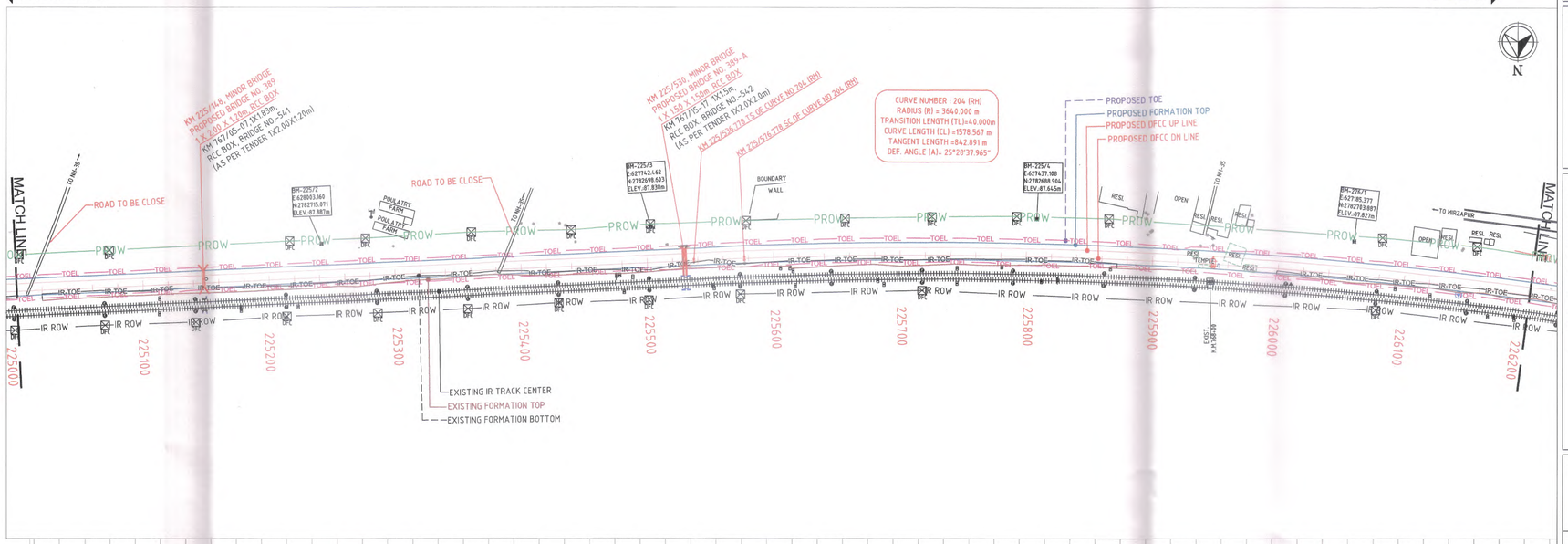
APPROVAL BY DFCC

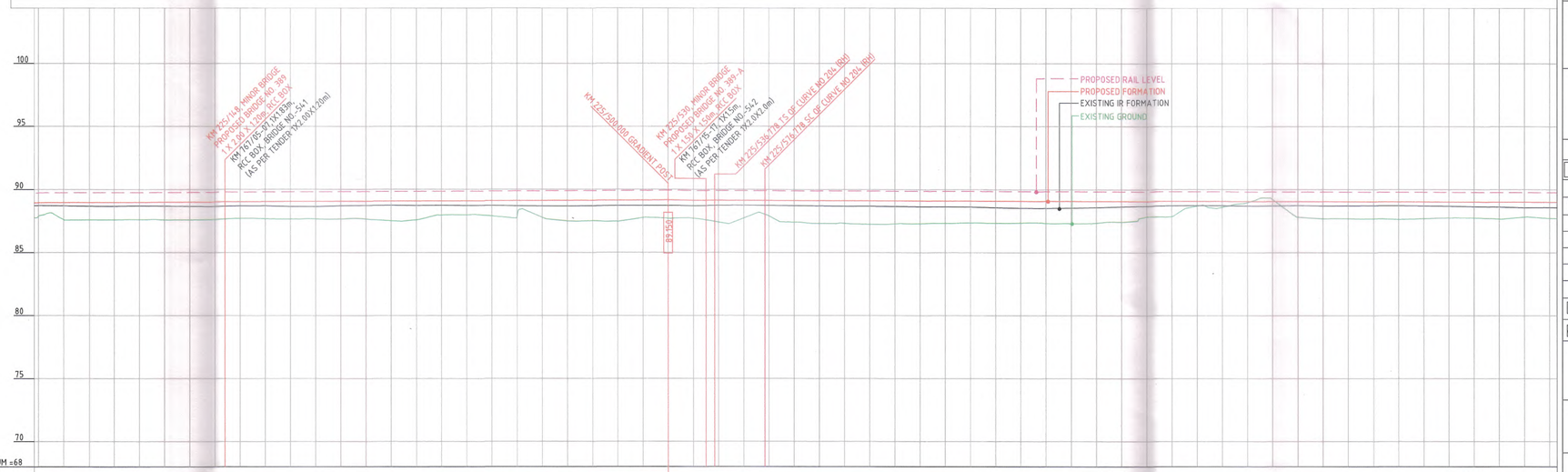
	DATE	NAME	SIGN.
CHKD.			
APPD.			

THIS DRAWING IS THE PROPERTY OF **GIL - SIL JV** IT SHOULD NOT BE USED, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.

Chainage CH- 225000 CH- 226200

HOWRAH ⬅ ➡ DELHI

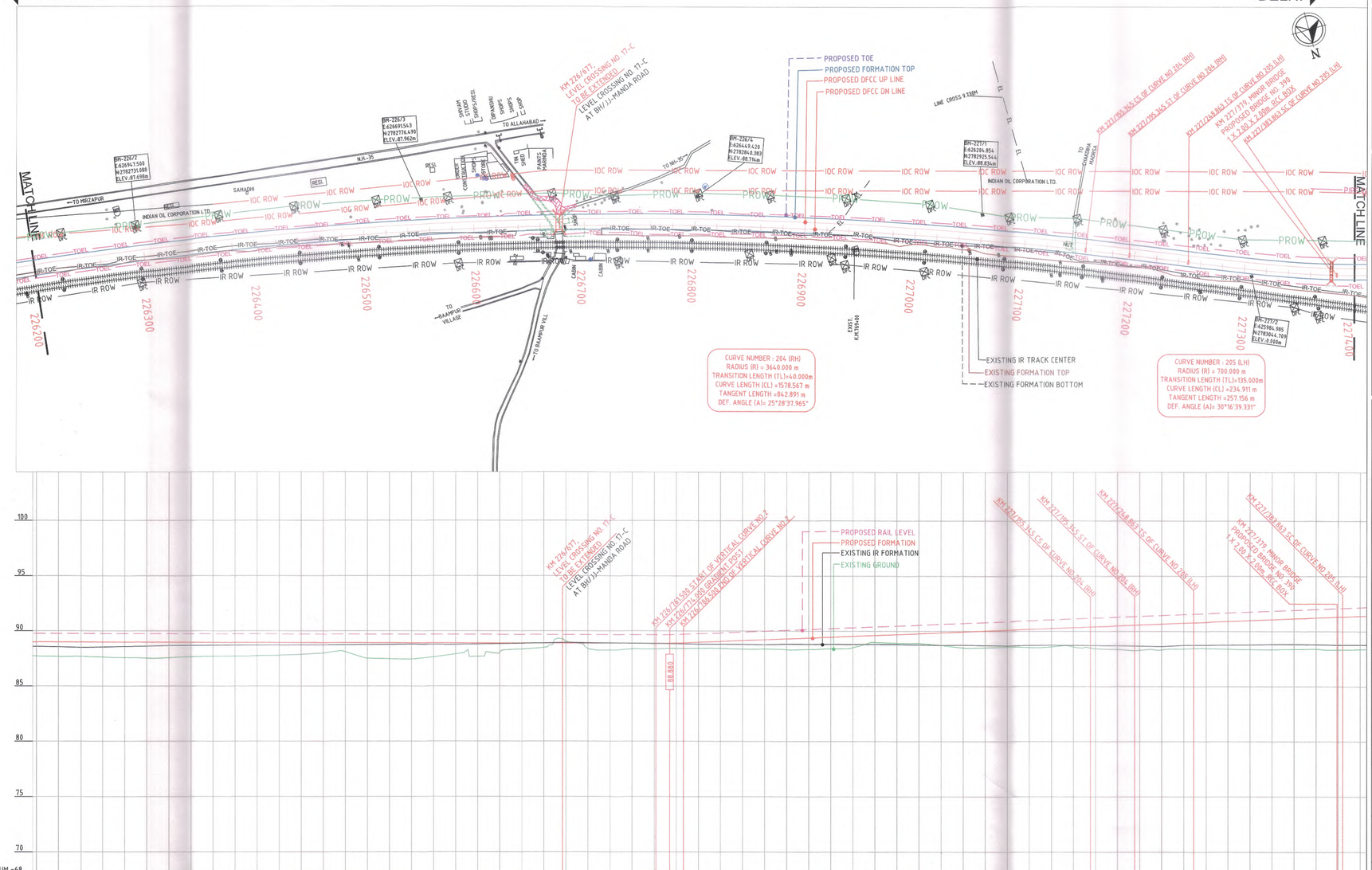




VERTICAL ALIGNMENT	G=0.036 (1 IN 2771.981) L=1315.000m; G=0.036 (1 IN 2771.981) L=1315.000m; L=1261.500m G=-0.021 (1 IN 4714.851); L=1261.500m G=-0.021 (1 IN 4714.851)
HORIZONTAL ALIGNMENT	L=4461.567m; L=4461.567m; L=40.000m; R=3640.000m L=1578.567m; R=3640.000m L=1578.567m
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	15.000 15.000 15.000

Chainage CH- 226200 CH-227400

HOWRAH ⟵ ⟶ DELHI



| | | |