

Chainage CH- 174600 CH- 175800

SECTION-CP-201

HOWRAH

DELHI



LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROPOSED LOOP LINE
- PROPOSED FUTURE LOOP LINE
- DFCC ROW LINE
- EXISTING IR TOE LINE
- DFCC TOE LINE

NOTES:-

- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
- ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
- TOP WIDTH OF FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
- CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFCC DOWN LINE.
- EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/H.
- TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
- DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
- PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
- AT THE LOCATIONS WHERE FORMATION HEIGHT IS <1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT TO 1.750m BY CUTTING THE EARTH
- 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. 174/600 TO KM. 175/800

DRAWING NO.	SIZE	REV	SCALE
D 2	AL 0 0 4 7	A1	HOR:- 1 : 2000, VER:- 1 : 200

REVIEWS		
REV	DATE	REMARKS
0	06/08/2018	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

DRAWN 06/08/2018 NAME T.C. SIGN.

CHKD. 27/02/2020 NAME S.MITRA SIGN.

APPD. 27/02/2020 NAME S.MITRA SIGN.

SUBMITTED BY GIL-SIL JV

DATE NAME SIGN.

CHKD. 03/03/2020 NAME ANURAGAN PRASAD SIGN.

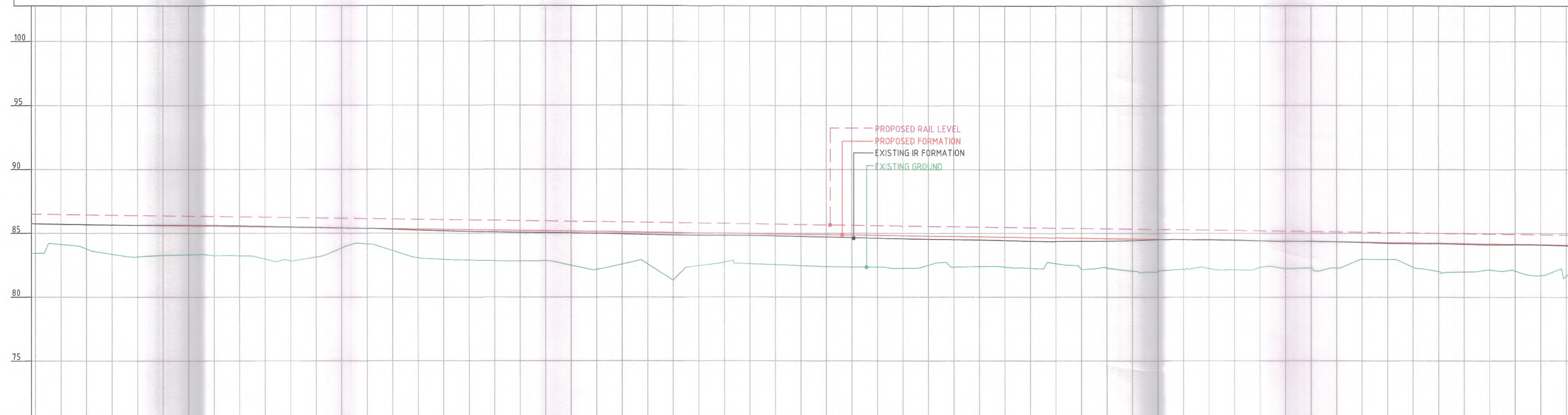
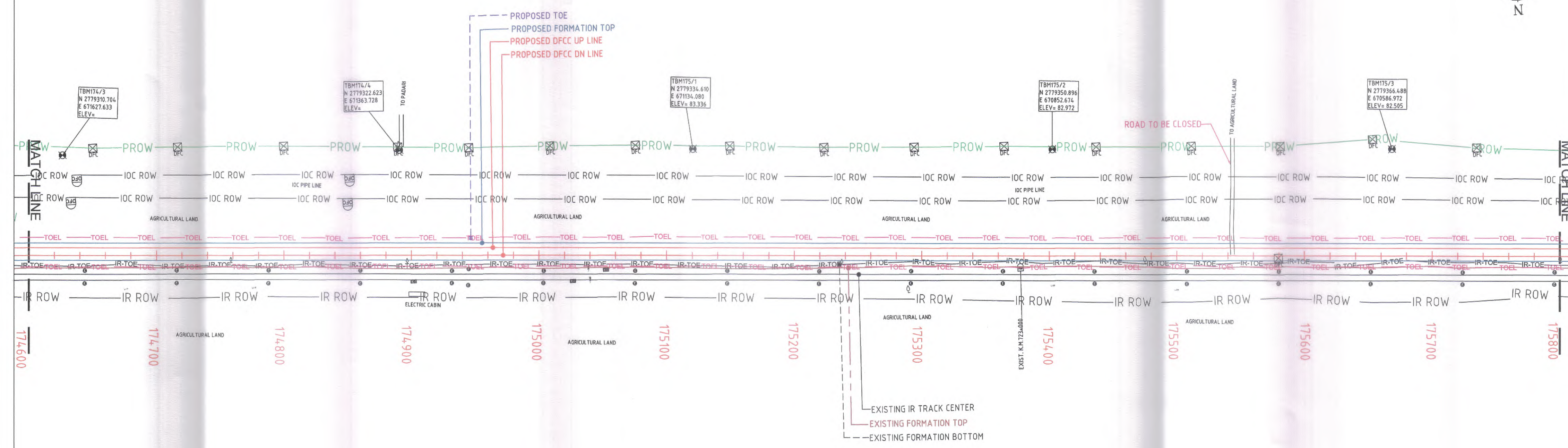
APPD. 03/03/2020 NAME P. Anurag SIGN.

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.



VERTICAL ALIGNMENT		L=2040.000m G=-0.137% (1 IN 728.967)	
HORIZONTAL ALIGNMENT		L=5360.694m	
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFCC TRACK AS PER TENDER DOCUMENT	15.000	15.000	15.000
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFCC DN TRACK AS PER DESIGN	15.000	15.000	15.000
FILL (+) / CUT (-)	2.316	2.316	2.316
PROPOSED FORMATION LEVELS	85.743	85.743	85.743
EXIST. IR FORMATION LEVELS	85.743	85.743	85.743
GROUND LEVELS	83.424	83.424	83.424
CHAINAGE	174600	174600	174600
THROUGH CHAINAGE	174600	174600	174600

Chainage CH- 175800 CH- 177000

SECTION-CP-201

←HOWRAH

DELHI→



LEGEND:-

- +++++ EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROPOSED LOOP LINE
- PROPOSED FUTURE LOOP LINE
- 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.
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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/MT 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 1.75m 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. 175/800 TO KM. 177/000

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

REVIEWS		
REV	DATE	REMARKS
0	06/08/2018	DEFINITIVE

DRAWING STAGE

- ☐ FOR APPROVAL
- ☒ GOOD FOR CONSTRUCTION

PMC :

SYSTRA - Mott MacDonald JV

CONTRACTOR :

GIL - SIL JV



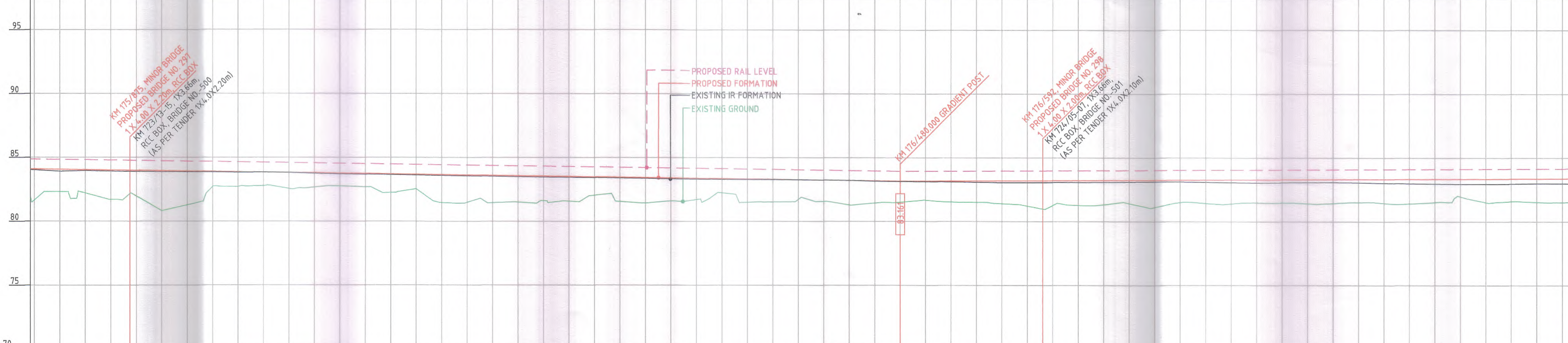
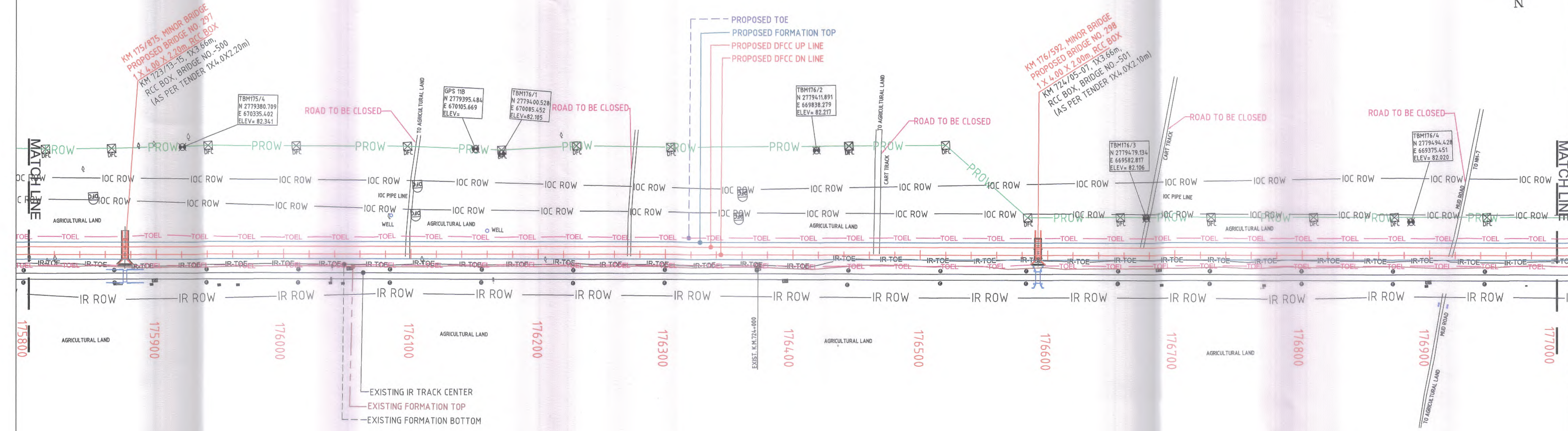
DESIGN CONSULTANT:
STUP Consultants Pvt. Ltd.

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

OFFICE OF ORIGIN
KOLKATA

DATE	NAME	SIGN.
DRAWN 06/08/2018	T.C.	
CHKD.		
APPD. 27/02/2020	S.MITRA	
SUBMITTED BY GIL-SIL JV		
DATE	NAME	SIGN.
CHKD. 28/02/2020	IMRAN AHMAD	
APPD. 28/02/2020	NISHEETH K SINGH	
NOC BY SYSTRA - Mott MacDonald JV		
DATE	NAME	SIGN.
CHKD. 03/03/2020	ANURAGAN PRASAD	
NOC 03/03/2020	P. AMERIKANOS	
APPROVAL BY DFCC		
DATE	NAME	SIGN.
CHKD.		
APPD.		

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LEVEL DATUM = 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FILL (+)/ CUT (-)	2.446																1.746																1.828																2.311																1.257																1.249																1.875																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564																1.564														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←HOWRAH

DELHI→

Chainage CH- 177000 CH- 178200

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROPOSED LOOP LINE
- PROPOSED FUTURE LOOP LINE
- DFCC ROW LINE
- EXISTING IR TOE LINE
- 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 KM/H.
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. 177/000 TO KM. 178/200

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 4 9	A1	0	HOR:- 1 : 2000, VER:- 1 : 200

REV	DATE	REMARKS
0	06/08/2018	DEFINITIVE

DRAWING STAGE

FOR APPROVAL

GOOD FOR CONSTRUCTION

PMC :



SYSTRA - Mott MacDonald JV

CONTRACTOR :



GIL - SIL JV



DESIGN CONSULTANT:

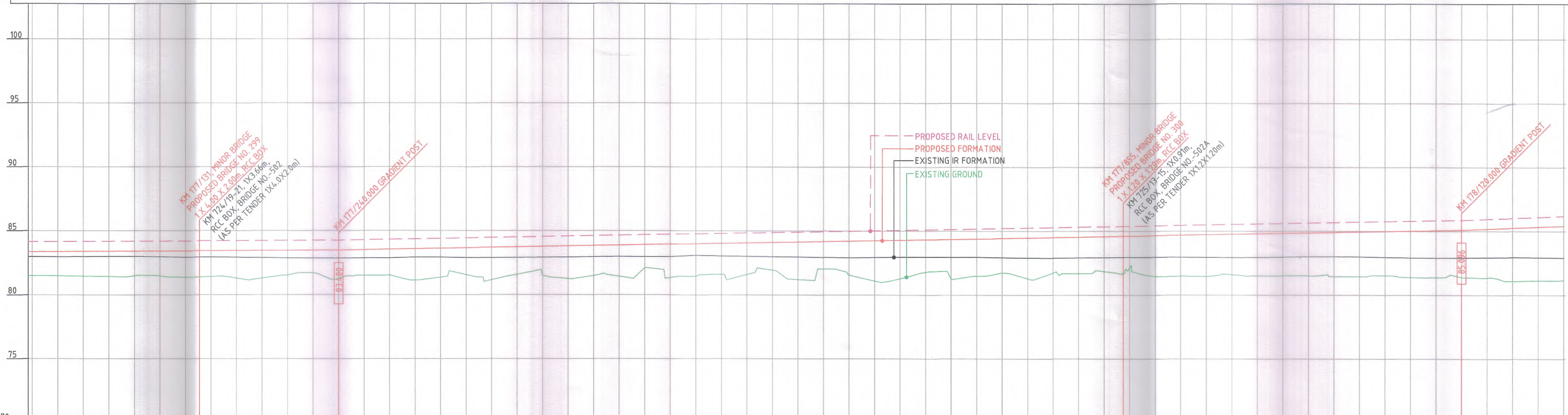
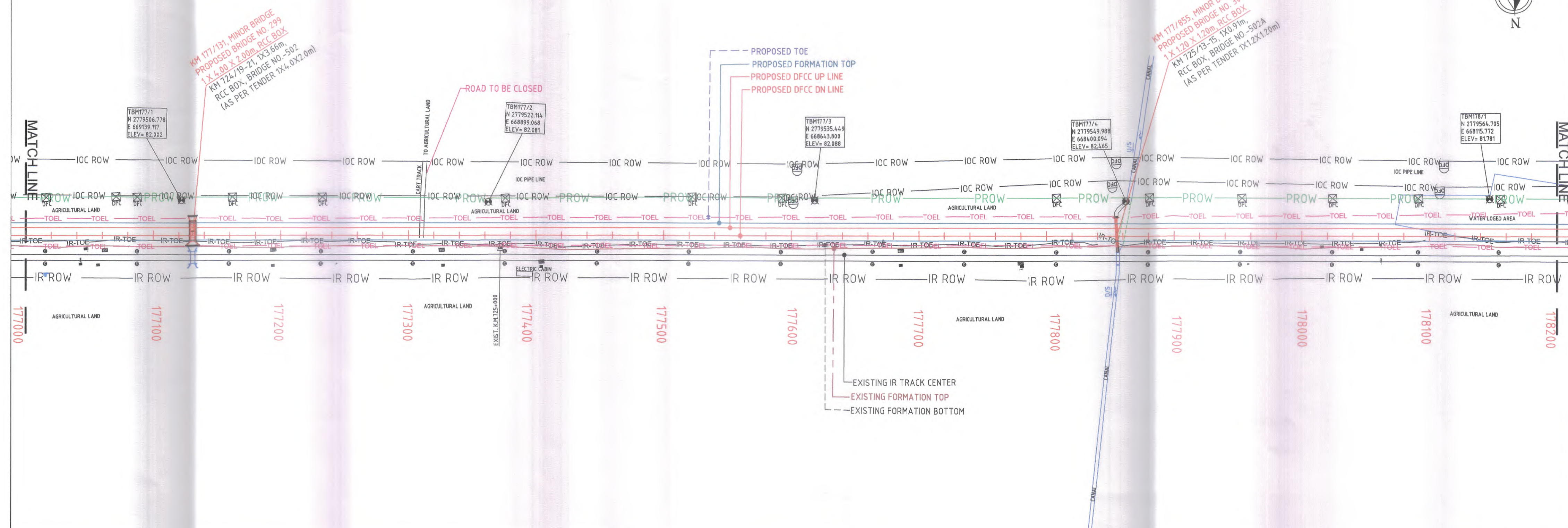
STUP Consultants Pvt. Ltd.

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

OFFICE OF ORIGIN
KOLKATA

DATE	NAME	SIGN.
DRAWN 06/08/2018	T.C.	
CHKD.		
APPD. 27/02/2020	S.MITRA	
SUBMITTED BY	GIL-SIL JV	
DATE	NAME	SIGN.
CHKD. 28/02/2020	IMRAN AHMAD	
APPD. 28/02/2020	NISHEETH K SINGH	
NOC BY	SYSTRA - Mott MacDonald JV	
DATE	NAME	SIGN.
CHKD. 03/03/2020	ANURANJAN PRASAD	
NOC 03/03/2020	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.



VERTICAL ALIGNMENT	G=0.042% (1 IN 2386.185) L=1760.000m	G=0.184% (1 IN 544.447) L=880.000m	G=0.184% (1 IN 544.447) L=880.000m	G=0.400% (1 IN 250) L=180.000m
HORIZONTAL ALIGNMENT	L=5360.694m	L=5360.694m	L=5360.694m	L=5360.694m
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC TRACK AS PER TENDER DOCUMENT	15.000	15.000	15.000	15.000
DIST. BETWEEN EX. IR MAIN TRACK & PROPOSED DFC ON TRACK AS PER DESIGN	14.911	14.872	14.918	14.963
FILL (+) / CUT (-)	1.866	1.888	1.929	1.963
PROPOSED FORMATION LEVELS	82.379	82.387	82.396	82.404
EXIST. IR FORMATION LEVELS	82.995	82.986	82.988	82.986
GROUND LEVELS	81.514	81.459	81.466	81.441
CHAINAGE	177000	177020	177040	177060
THROUGH CHAINAGE	177080	177100	177120	177140

SECTION-CP-201

LEGEND:-

- +++++ EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROW PROW
- IR-TOE IR-TOE
- TOEL TOEL
- DFCC ROW LINE
- EXISTING IR TOE LINE
- 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 EMBANKMENT / 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 IS 1.75m 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. 178/200 TO KM. 179/400

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

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

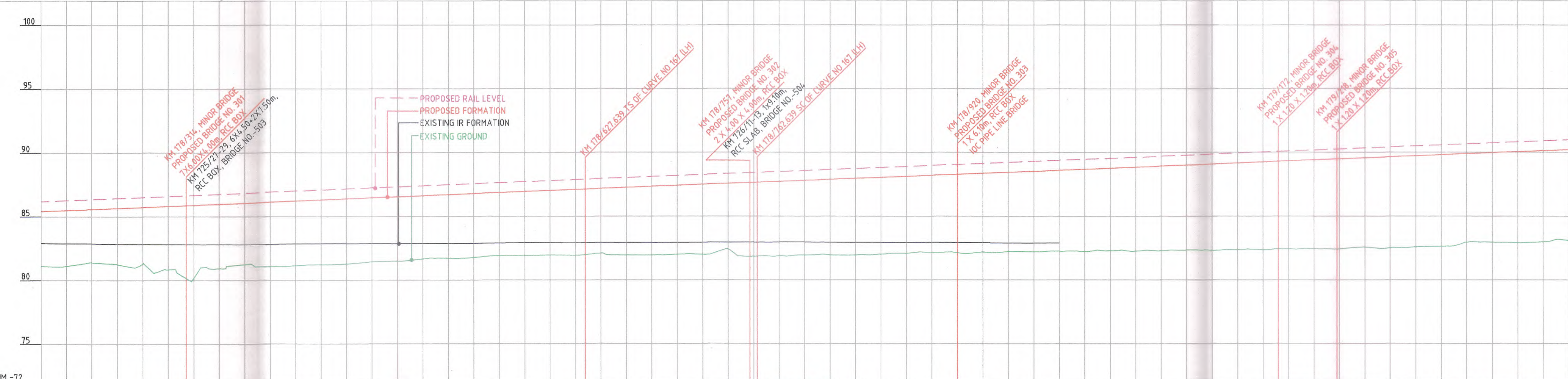
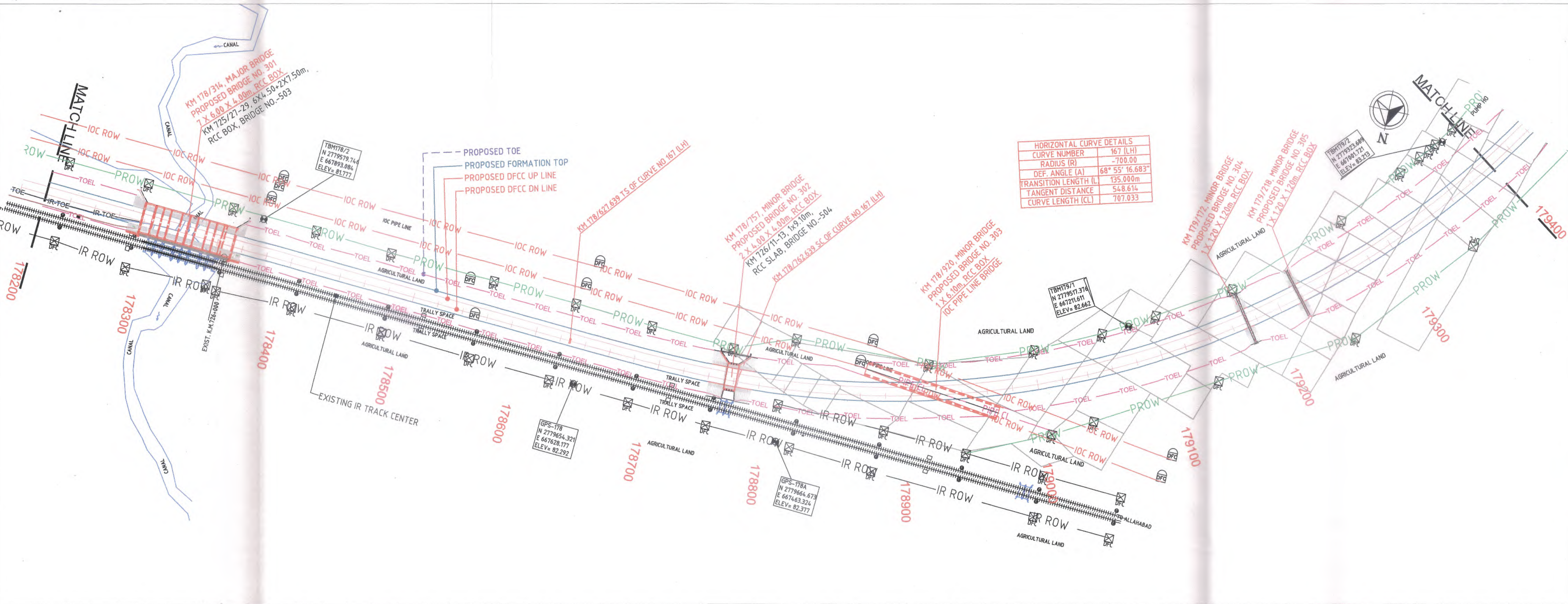
REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

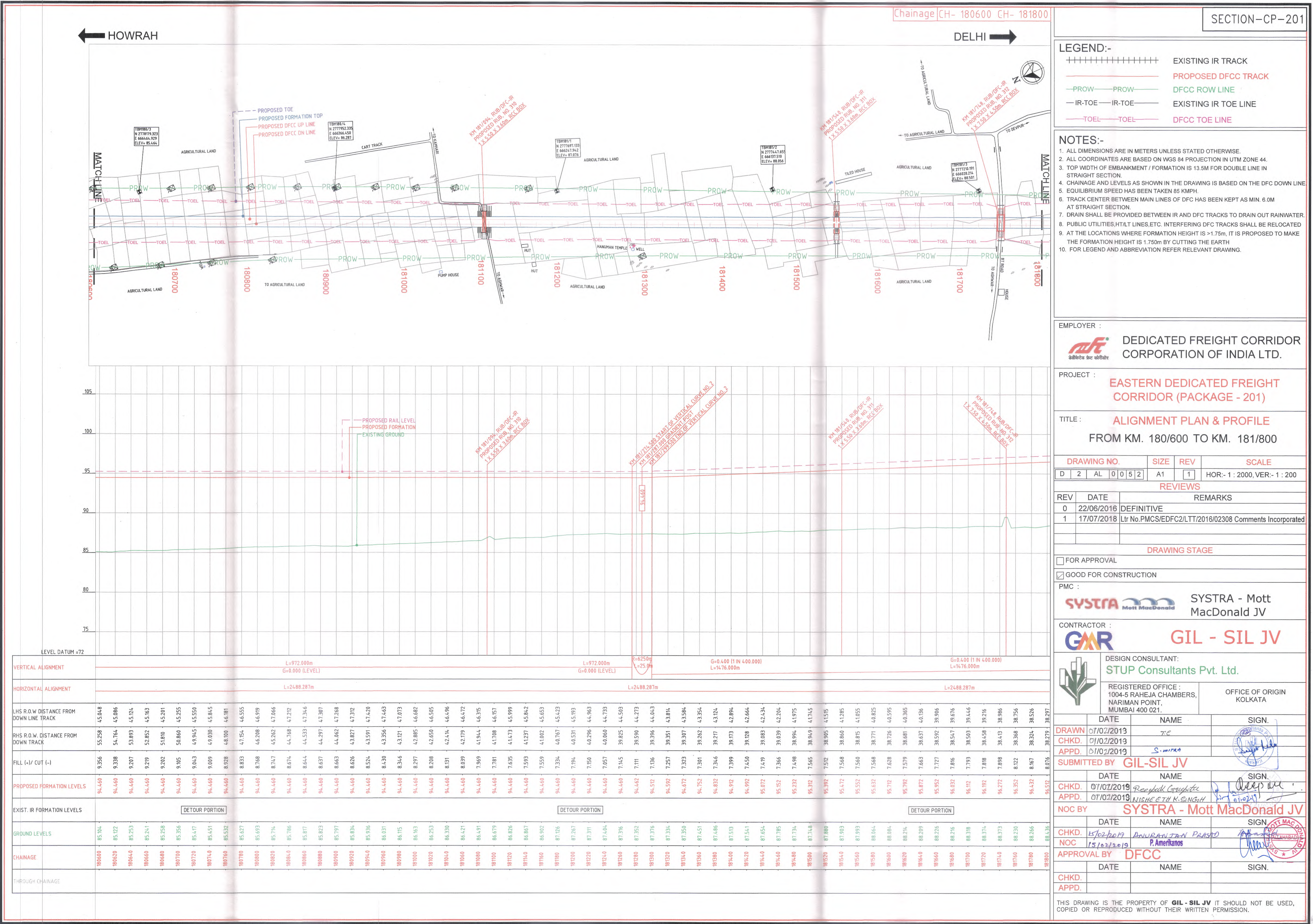
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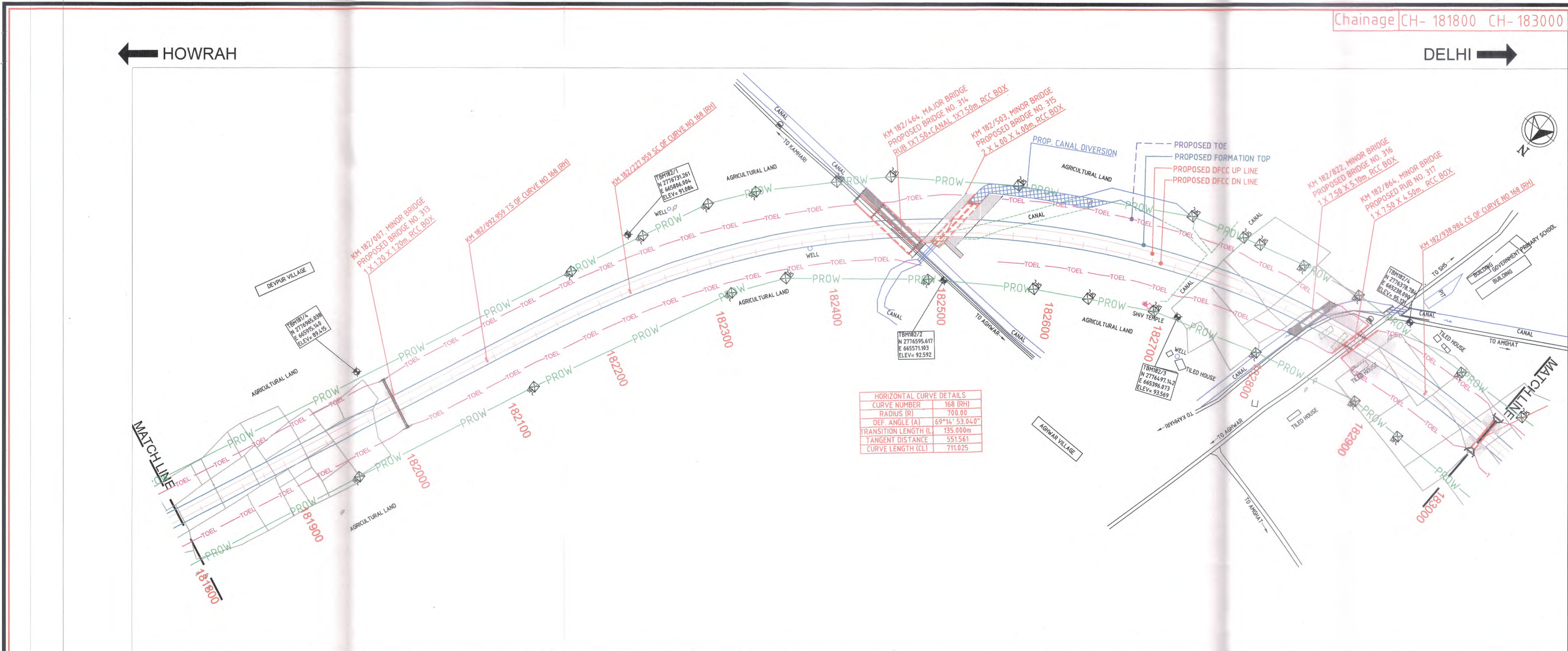
HOWRAH

DELHI

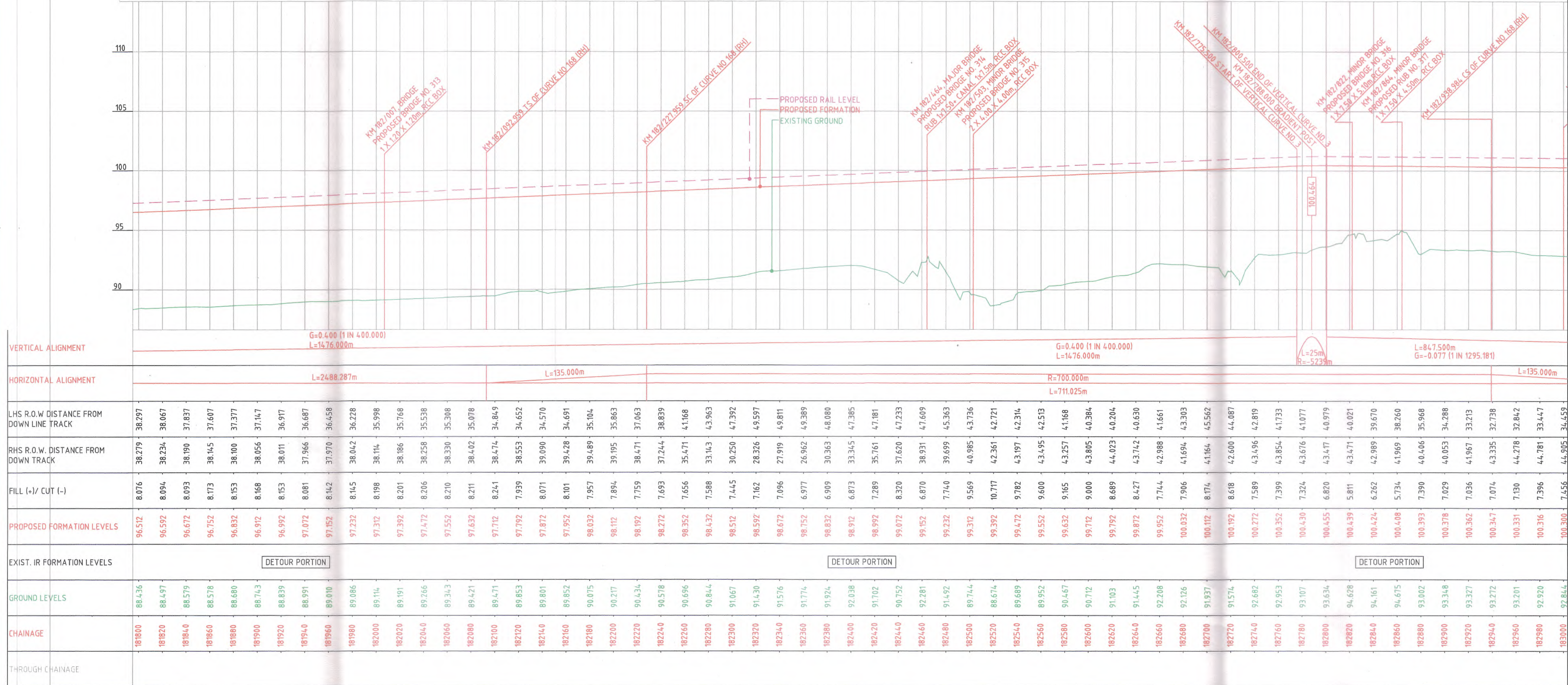


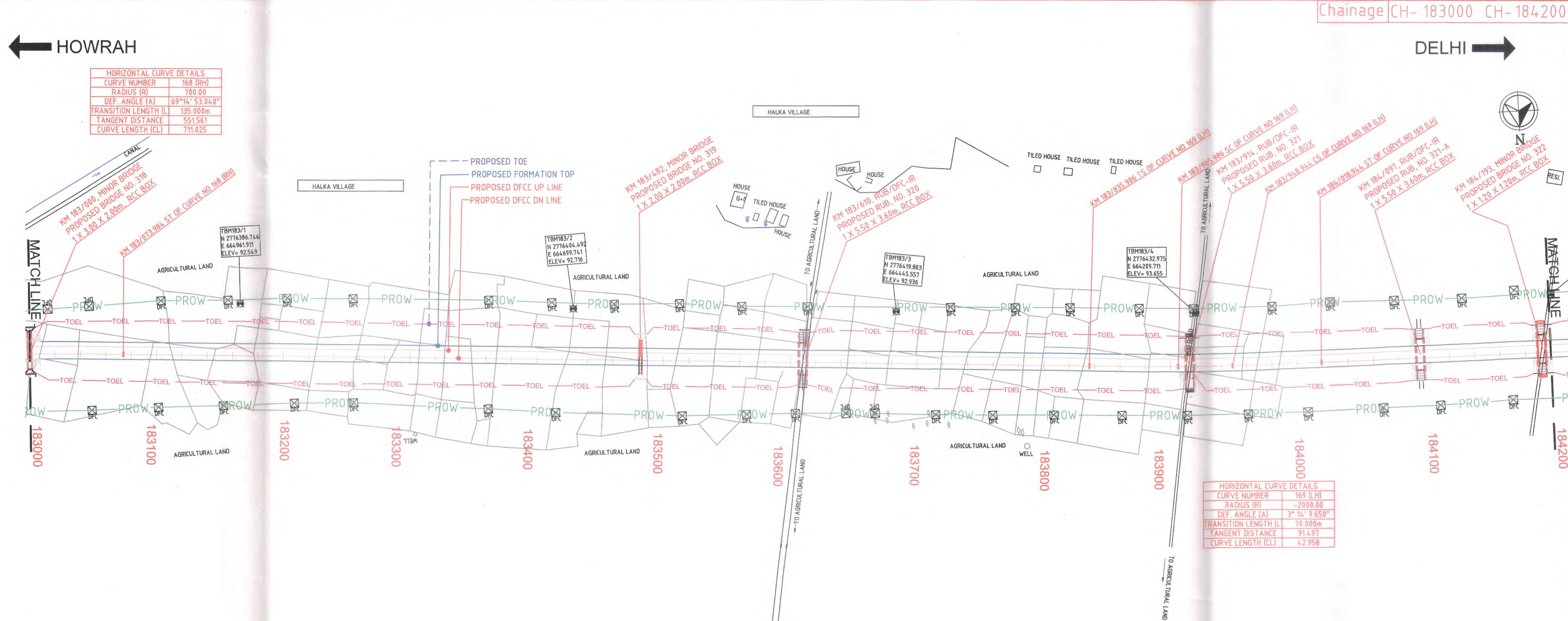
VERTICAL ALIGNMENT	G=0.400 (1 IN 250.000) L=1486.000m	G=0.400 (1 IN 250.000) L=1486.000m	G=0.400 (1 IN 250.000) L=1486.000m
HORIZONTAL ALIGNMENT	L=627.639m	L=135.000m	R=700.000m L=707.033m
LHS R.O.W DISTANCE FROM DOWN LINE TRACK	29.570	29.619	29.706
RHS R.O.W DISTANCE FROM DOWN LINE TRACK	29.570	29.619	29.706
FILL (+)/ CUT (-)	4.297	4.366	4.481
PROPOSED FORMATION LEVELS	85.416	85.496	85.576
EXIST. IR FORMATION LEVELS	82.923	82.892	82.890
GROUND LEVELS	81.119	81.131	81.136
CHAINAGE	178200	178220	178240
THROUGH CHAINAGE	178200	178220	178240





HORIZONTAL CURVE DETAILS	
CURVE NUMBER	168 (RH)
RADIUS (R)	700.00
DEF. ANGLE (Δ)	69°14' 53.04"
TRANSITION LENGTH (L)	135.000m
TANGENT DISTANCE	551.561
CURVE LENGTH (CL)	711.025





VERTICAL ALIGNMENT		L=847.500m G=-0.077 (1 IN 1295.181)		L=847.500m G=-0.077 (1 IN 1295.181)		L=800.000m G=0.000 (LEVEL)		L=800.000m G=0.000 (LEVEL)		L=800.000m G=0.000 (LEVEL)		L=800.000m G=0.000 (LEVEL)	
HORIZONTAL ALIGNMENT		L=135.000m		L=762.002m		L=762.002m		L=70.000m		L=42.958m		L=70.000m	
LHS R.O.W. DISTANCE FROM DOWN LINE TRACK	657.71	978.55	37.339	920.5	197.07	46.74	30.537	197.74	30.537	197.74	30.537	197.74	30.537
RHS R.O.W. DISTANCE FROM DOWN TRACK	505.77	147.77	44.347	197.07	46.74	30.537	197.74	30.537	197.74	30.537	197.74	30.537	197.74
FILL (+) / CUT (-)	957.7	149.7	75.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7
PROPOSED FORMATION LEVELS	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
EXIST. IR FORMATION LEVELS	DETOUR PORTION												
GROUND LEVELS	97.76	97.76	97.76	97.76	97.76	97.76	97.76	97.76	97.76	97.76	97.76	97.76	97.76
CHAINAGE	183000	183020	183040	183060	183080	183100	183120	183140	183160	183180	183200	183220	183240
THROUGH CHAINAGE	183000	183020	183040	183060	183080	183100	183120	183140	183160	183180	183200	183220	183240

SECTION-CP-201

- LEGEND:-
- EXISTING IR TRACK
 - PROPOSED DFCC TRACK
 - DFCC ROW LINE
 - EXISTING IR TOE LINE
 - DFCC TOE LINE

- NOTES:-
- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
 - ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
 - TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
 - CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE.
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 - TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
 - DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
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 - AT THE LOCATIONS WHERE FORMATION HEIGHT IS >1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT IS 1.75m BY CUTTING THE EARTH.
 - 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. 183/000 TO KM. 184/200

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 5 4	A1	1	HOR:- 1 : 2000, VER:- 1 : 200

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

DRAWING STAGE
☐ FOR APPROVAL
☒ GOOD FOR CONSTRUCTION

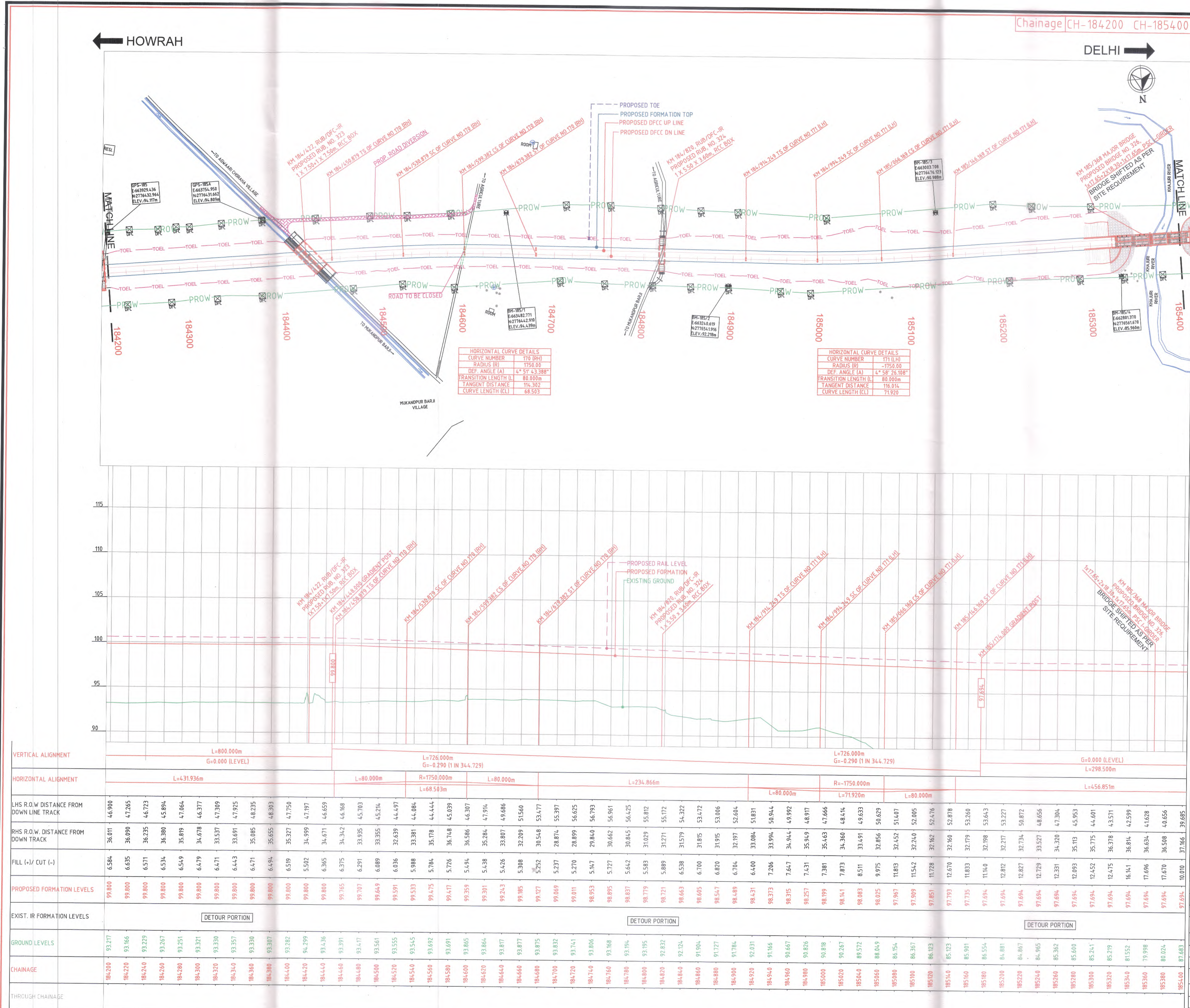
PMC :
SYSTRA - Mott MacDonald JV

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

DRAWN	DATE	NAME	SIGN.
CHKD.	01/02/2013	TE	
APPD.	01/02/2013	S. MITRA	
SUBMITTED BY GIL-SIL JV			
CHKD.	DATE	NAME	SIGN.
APPD.	01/02/2013	ANURANTAN PRASAD	
NOC BY SYSTRA - Mott MacDonald JV			
CHKD.	DATE	NAME	SIGN.
NOC	15/02/2019	P. AMERIKANOS	
APPROVAL BY DFCC			
CHKD.	DATE	NAME	SIGN.
APPD.			

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SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- DFCC ROW LINE
- EXISTING IR TOE LINE
- DFCC TOE LINE

NOTES:-

- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
- ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
- TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
- CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
- EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
- TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
- DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
- PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
- AT THE LOCATIONS WHERE FORMATION HEIGHT IS >1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT 1.75m BY CUTTING THE EARTH
- 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. 185/400 TO KM. 186/600

DRAWING NO.	SIZE	REV	SCALE
D 2 AL 0 0 5 6	A1	1	HOR:- 1 : 2000, VER:- 1 : 200

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 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.
01/02/2013	zc	
01/02/2013	S. MITRA	
01/02/2013		

SUBMITTED BY GIL-SIL JV

DATE	NAME	SIGN.
01/02/2013	Reedijk Garghika	
01/02/2013	NISHIKETH SINGH	

NOC BY SYSTRA - Mott MacDonald JV

DATE	NAME	SIGN.
15/02/2013	ANURANJAN PRASAD	
15/02/2013	P. Ameritans	

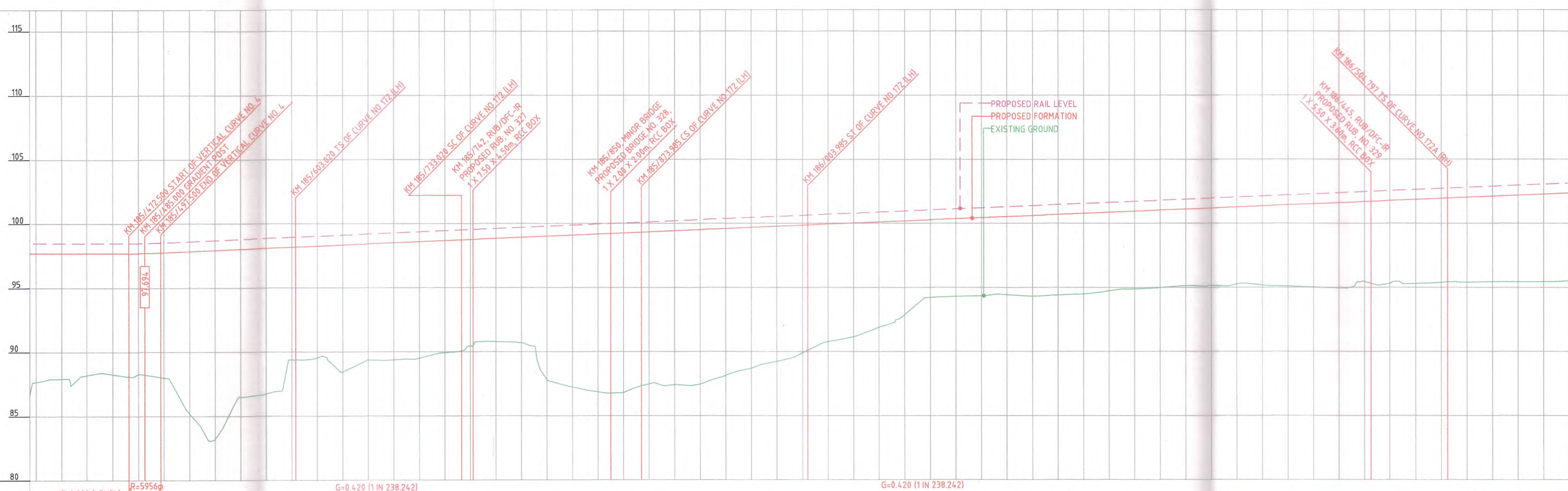
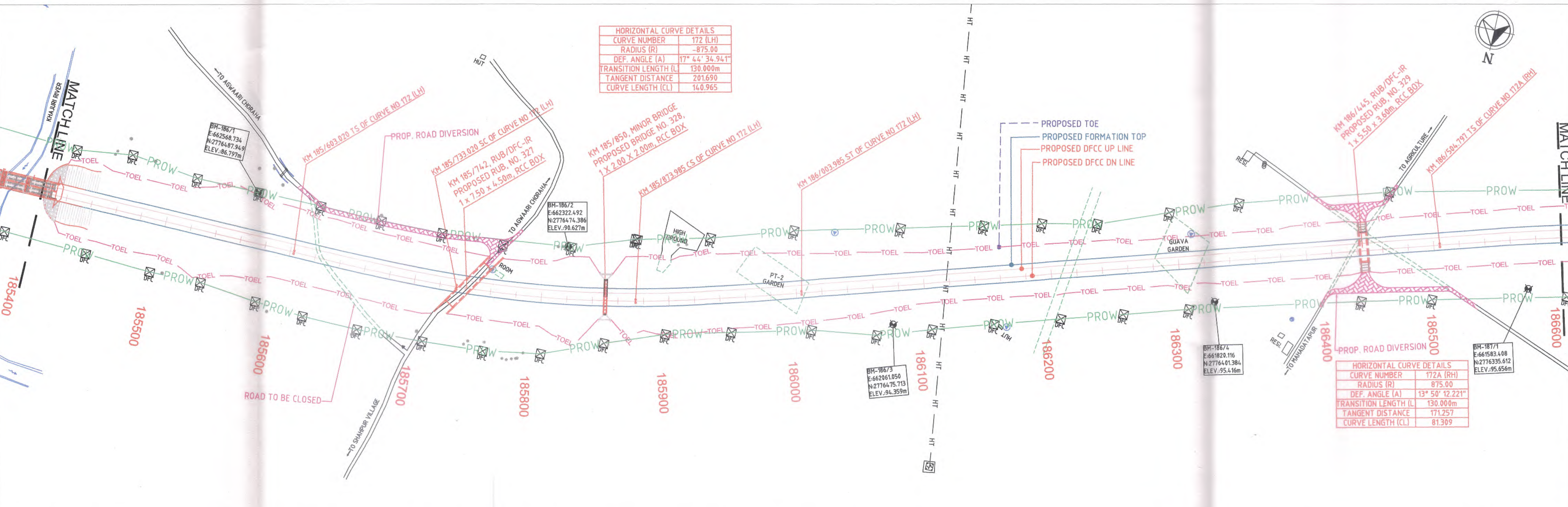
APPROVAL BY DFCC

DATE	NAME	SIGN.

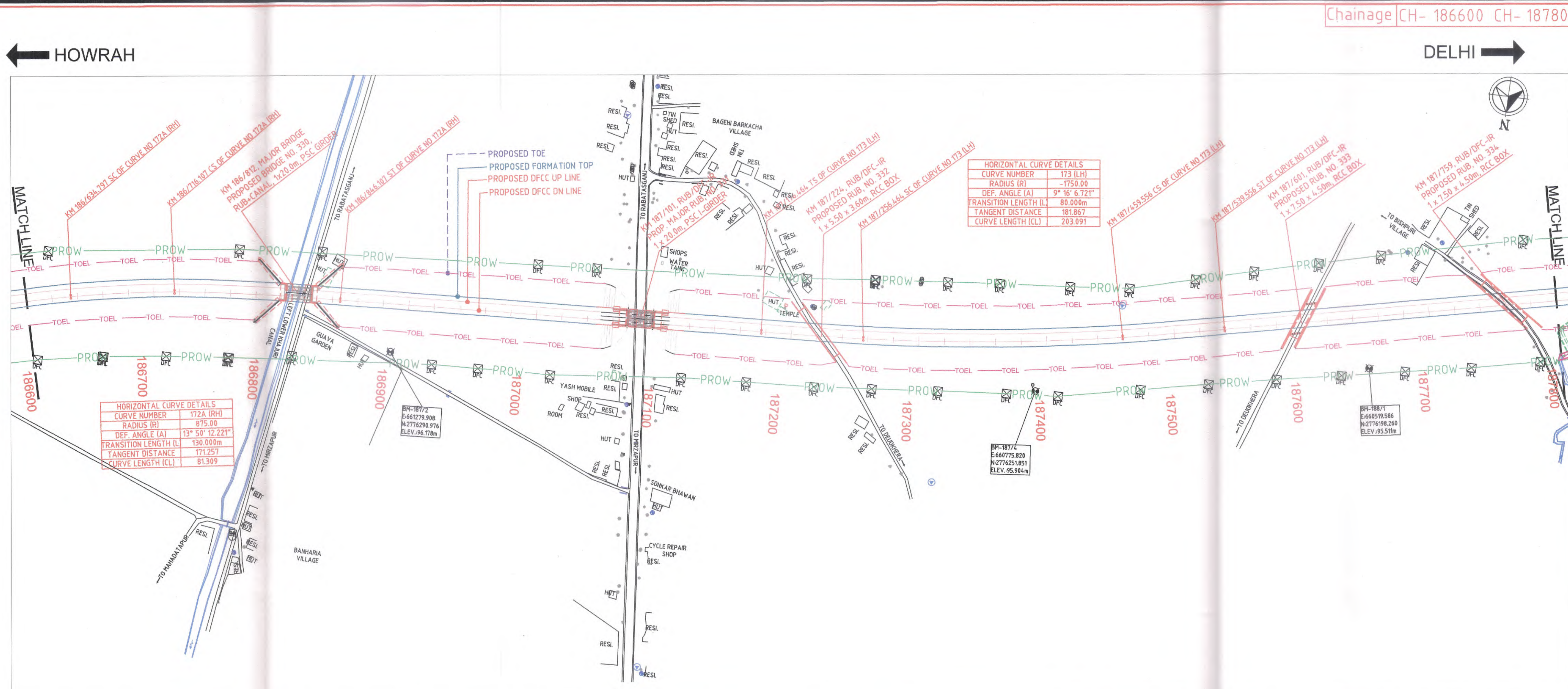
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HOWRAH

DELHI



VERTICAL ALIGNMENT	G=0.000 (LEVEL) L=298.500m	R=5956m L=25.000m	G=0.420 (1 IN 238.242) L=1525.000m	G=0.420 (1 IN 238.242) L=1525.000m	G=0.420 (1 IN 238.242) L=1525.000m	G=0.420 (1 IN 238.242) L=1525.000m
HORIZONTAL ALIGNMENT	L=456.851m	L=130.000m	R=875.000m L=140.965m	L=130.000m	L=500.812m	L=130.000m
LHS R.O.W DISTANCE FROM DOWN LINE TRACK	39.685	38.835	38.835	38.835	38.835	38.835
RHS R.O.W DISTANCE FROM DOWN LINE TRACK	37.166	37.824	38.483	39.335	40.245	40.905
FILL (+)/ CUT (-)	10.010	9.705	9.481	9.421	9.407	9.748
PROPOSED FORMATION LEVELS	97.694	97.694	97.694	97.694	97.694	97.694
EXIST. IR FORMATION LEVELS	97.694	97.694	97.694	97.694	97.694	97.694
GROUND LEVELS	97.694	97.694	97.694	97.694	97.694	97.694
CHAINAGE	185400	185420	185440	185460	185480	185500
THROUGH CHAINAGE						



VERTICAL ALIGNMENT	G=0.420 (1 IN 238.242) L=1525.000m		L=25.000m R=5950m		G=0.000 (LEVEL) L=290.000m		L=25.000m R=5520m		L=750.000m G=-0.453 (1 IN 220.798)		L=750.000m G=-0.453 (1 IN 220.798)	
HORIZONTAL ALIGNMENT	L=130.000m R=875.000m		L=130.000m		L=330.358m		L=80.000m		L=203.091m		L=80.000m	
LHS R.O.W DISTANCE FROM DOWN LINE TRACK	37.654	37.381	35.671	34.310	33.022	33.089	33.608	34.509	34.773	34.921	35.231	35.632
RHS R.O.W DISTANCE FROM DOWN TRACK	45.159	47.247	48.117	48.724	49.649	50.441	50.402	50.426	50.977	51.509	52.021	52.509
FILL (+)/ CUT (-)	6.842	6.807	6.913	7.002	7.062	7.124	7.204	7.227	7.307	7.349	7.381	7.422
PROPOSED FORMATION LEVELS	102.314	102.458	102.542	102.626	102.710	102.794	102.876	102.962	103.046	103.130	103.214	103.298
EXIST. IR FORMATION LEVELS	DETOUR PORTION											
GROUND LEVELS	95.332	95.652	95.613	95.613	95.613	95.613	95.613	95.613	95.613	95.613	95.613	95.613
CHAINAGE	186600	186620	186640	186660	186680	186700	186720	186740	186760	186780	186800	186820
THROUGH CHAINAGE	186600	186620	186640	186660	186680	186700	186720	186740	186760	186780	186800	186820

HOWRAH

Chainage CH- 187800 CH- 189000

DELHI

SECTION-CP-201

LEGEND:-

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- DFCC ROW LINE
- EXISTING IR TOE LINE
- DFCC TOE LINE

NOTES:-

- ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE.
- ALL COORDINATES ARE BASED ON WGS 84 PROJECTION IN UTM ZONE 44.
- TOP WIDTH OF EMBANKMENT / FORMATION IS 13.5M FOR DOUBLE LINE IN STRAIGHT SECTION.
- CHAINAGE AND LEVELS AS SHOWN IN THE DRAWING IS BASED ON THE DFC DOWN LINE
- EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KMPH.
- TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
- DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
- PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED
- AT THE LOCATIONS WHERE FORMATION HEIGHT IS >1.75m, IT IS PROPOSED TO MAKE THE FORMATION HEIGHT IS 1.750m BY CUTTING THE EARTH
- 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. 187/800 TO KM. 189/000**

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

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 Comments Incorporated

DRAWING STAGE

- ☐ FOR APPROVAL
- ☒ GOOD FOR CONSTRUCTION

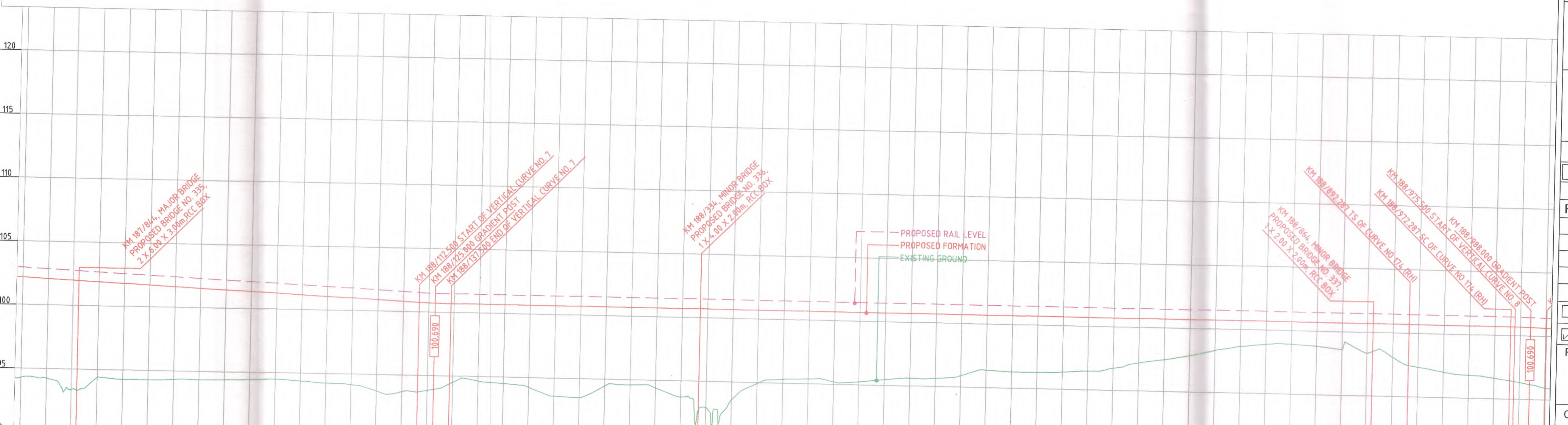
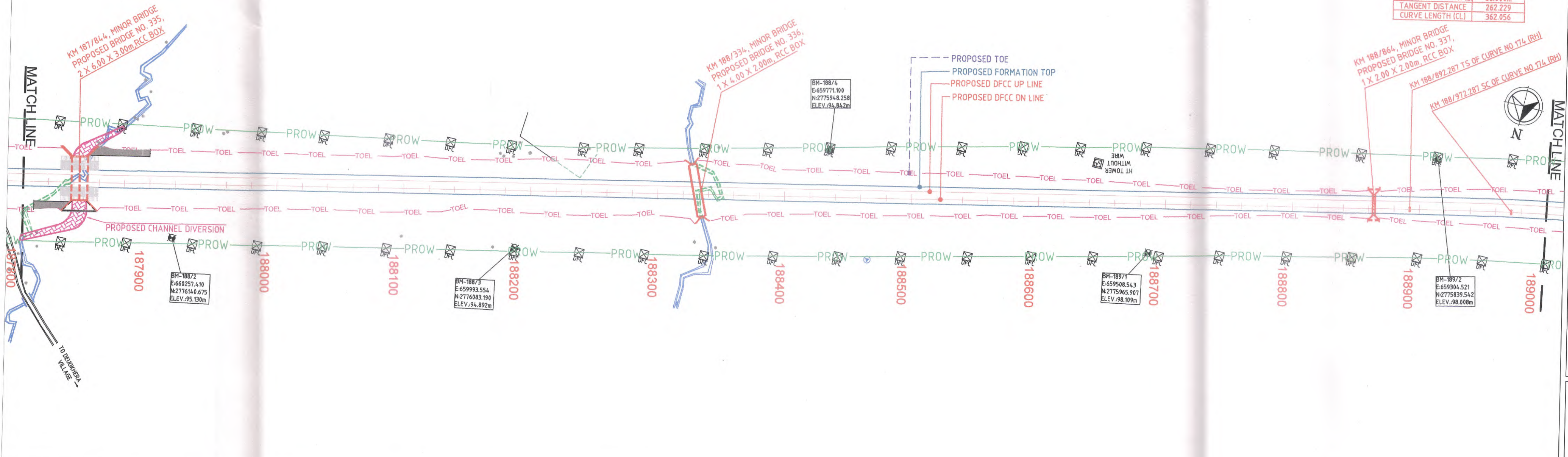
PMC :
SYSTRA - Mott MacDonald JV

CONTRACTOR :
GIL - SIL JV

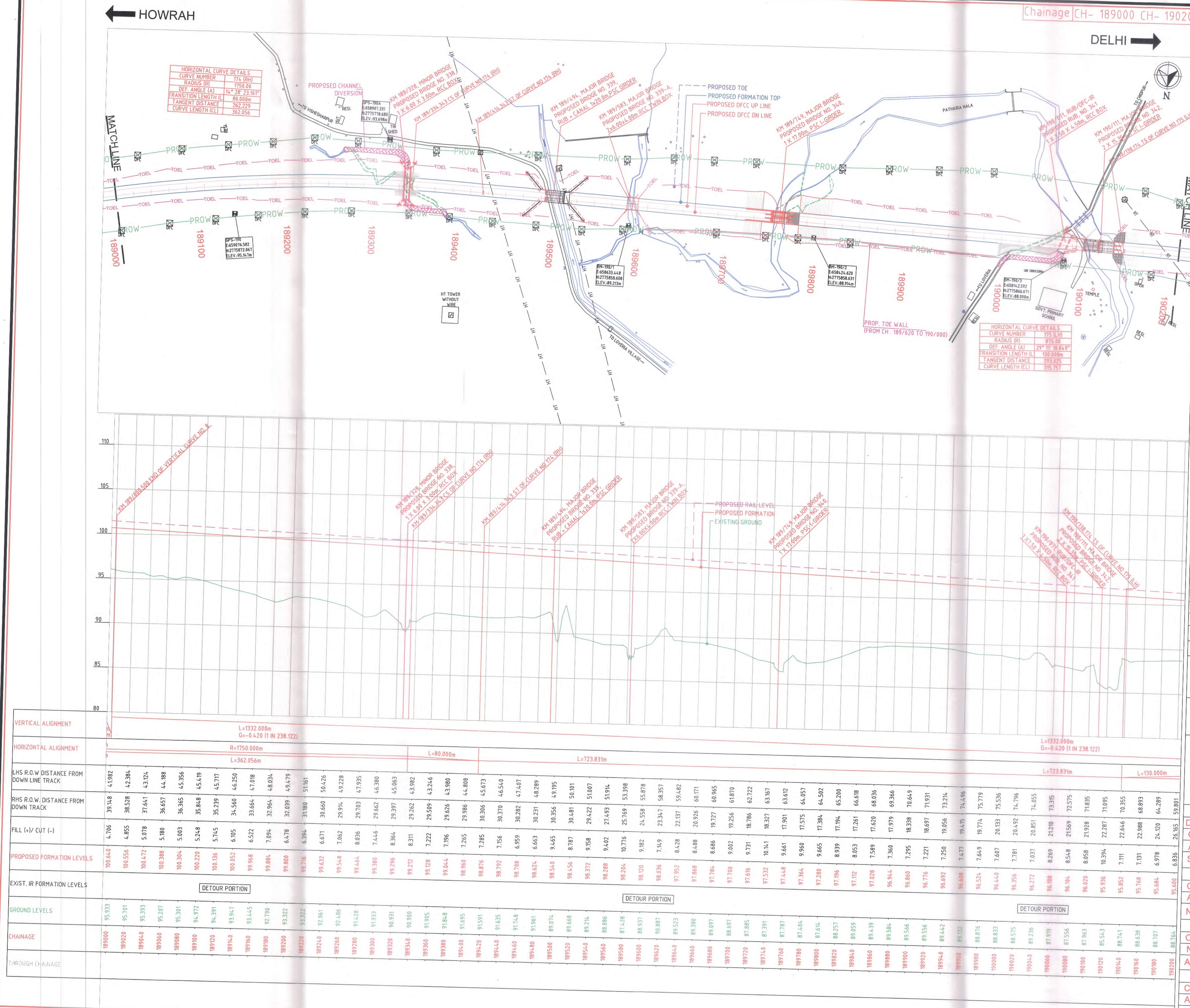
DESIGN CONSULTANT:
STUP Consultants Pvt. Ltd.
REGISTERED OFFICE :
1004-5 RAHEJA CHAMBERS,
NARIMAN POINT,
MUMBAI 400 021.
OFFICE OF ORIGIN
KOLKATA

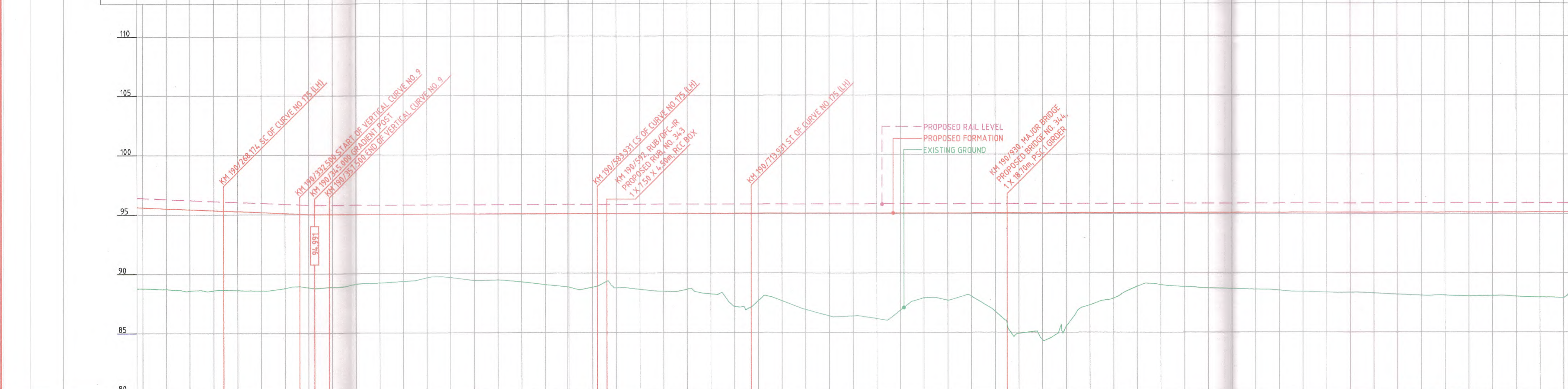
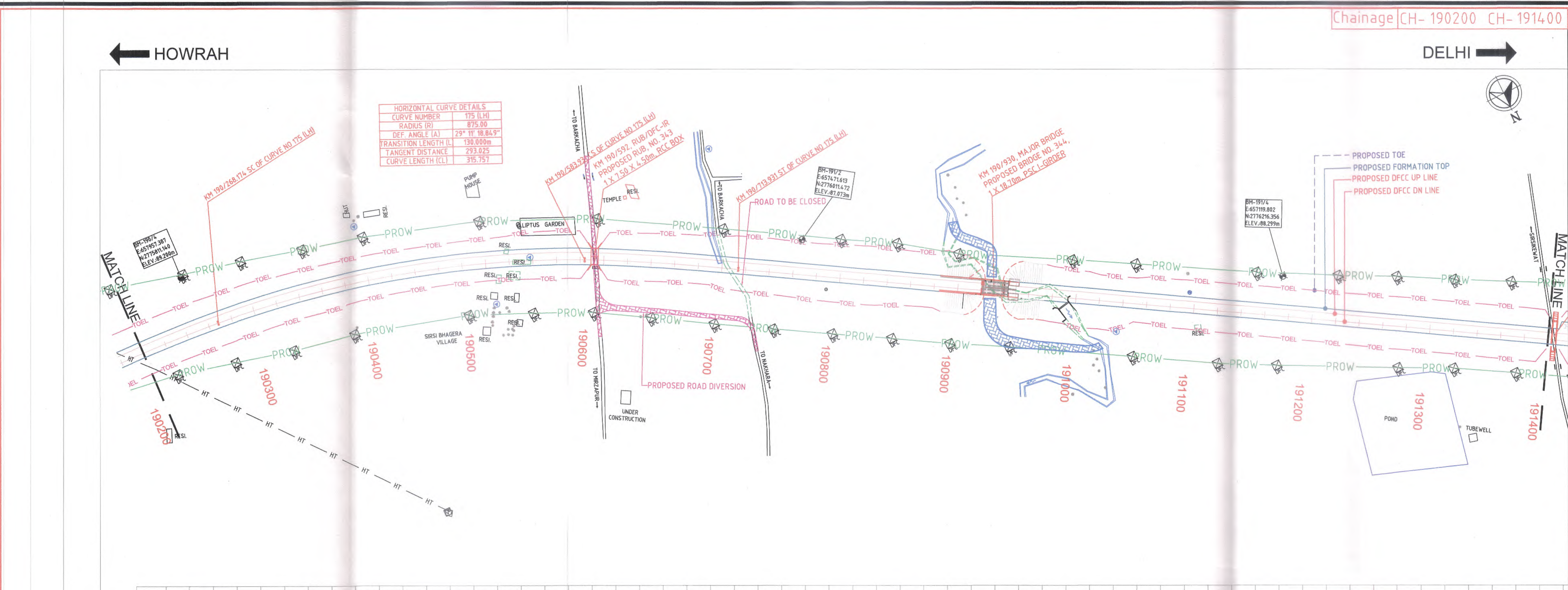
DATE	NAME	SIGN.
DRAWN 01/02/2019	TC	
CHKD. 01/02/2019		
APPD. 01/02/2019	S. MITRA	
SUBMITTED BY GIL-SIL JV		
DATE	NAME	SIGN.
CHKD. 01/02/2019	Rajesh Kumar	
APPD. 01/02/2019	NISHIKANT SINGH	
NOC BY SYSTRA - Mott MacDonald JV		
DATE	NAME	SIGN.
CHKD. 15/02/2019	ANURANTAN PRASAD	
NOC 15/02/2019	P. Amerikano	
APPROVAL BY DFCC		
DATE	NAME	SIGN.
CHKD.		
APPD.		

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VERTICAL ALIGNMENT	L=750.000m G=-0.453 (1 IN 220.798)	L=750.000m G=-0.453 (1 IN 220.798)	L=836.000m G=0.000 (LEVEL)	L=836.000m G=0.000 (LEVEL)	L=80.000m G=0.000 (LEVEL)	L=80.000m G=0.000 (LEVEL)
HORIZONTAL ALIGNMENT	L=1352.732m	L=1352.732m	L=1352.732m	L=1352.732m	L=80.000m	L=80.000m
LHS R.O.W DISTANCE FROM DOWN LINE TRACK	4.082	4.082	4.082	4.082	4.082	4.082
RHS R.O.W DISTANCE FROM DOWN TRACK	4.082	4.082	4.082	4.082	4.082	4.082
FILL (+) / CUT (-)	7.882	7.829	8.516	7.490	7.448	7.448
PROPOSED FORMATION LEVELS	102.162	102.071	101.981	101.890	101.800	101.709
EXIST. IR FORMATION LEVELS	101.168	101.168	101.168	101.168	101.168	101.168
GROUND LEVELS	101.168	101.168	101.168	101.168	101.168	101.168
CHAINAGE	187800	187820	187840	187860	187880	187900
THROUGH CHAINAGE	187800	187820	187840	187860	187880	187900





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 EMBANKMENT / 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.
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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 IS 1.75m 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. 190/200 TO KM. 191/400

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

REVIEWS

REV	DATE	REMARKS
0	22/06/2016	DEFINITIVE
1	17/07/2018	Ltr No.PMCS/EDFC2/LTT/2016/02308 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	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	Reedhik Chatterjee	
APPD.	01/02/2019	NISHCHET K. SINGH	
NOC BY SYSTRA - Mott MacDonald JV			
	DATE	NAME	SIGN.
CHKD.	15/02/2019	ANURANJAN PRASAD	
NOC	15/02/2019	P. Amerikano	
APPROVAL BY DFCC			
	DATE	NAME	SIGN.
CHKD.			
APPD.			

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