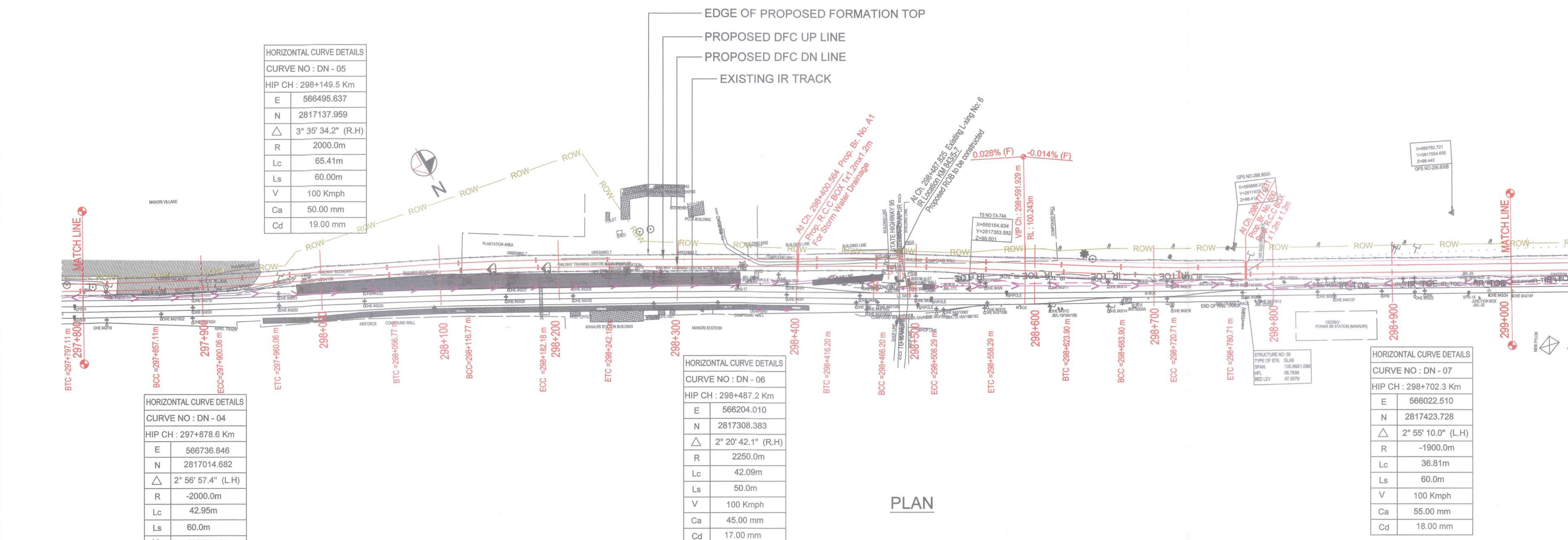


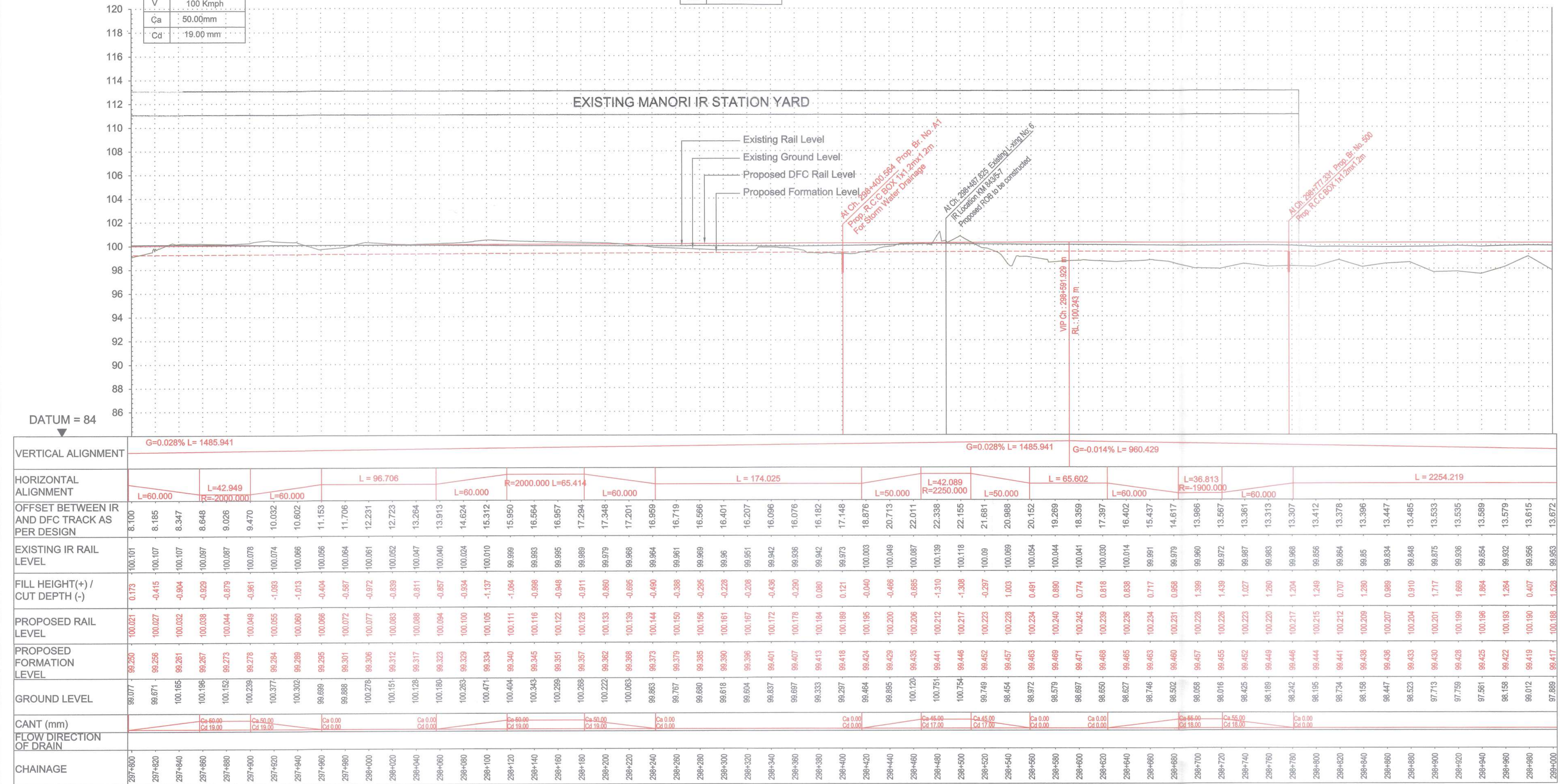
← HOWRAH

DELHI →

SECTION-A-202



PLAN



PROFILE

LEGEND :

—	EXISTING IR TRACK
—	PROPOSED DFCC TRACK
—	PROPOSED FORMATION
—	DFCC ROW LINE
—	EXISTING IR TOE LINE
—	DFCC TOE LINE FOR EMB HT < 6.0M
—	FLOW DIRECTION OF PROPOSED DRAIN
—	EDGE OF PROPOSED FORMATION TOP
—	EXISTING GROUND

- 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 DFCC DOWN LINE.
 5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/H.
 6. TRACK CENTER BETWEEN DFCC & EXISTING IR TRACK HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
 7. TRACK CENTER BETWEEN MAIN LINES OF DFCC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
 8. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFCC TRACKS TO DRAIN OUT RAINWATER.
 9. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAILED DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
 10. OFF CABLE FALLING IN PROPOSED DFCC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 11. PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFCC TRACKS SHALL BE RELOCATED AT THE LOCATIONS WHERE EMBANKMENT HEIGHT IS < 1M, IT IS PROPOSED TO MAKE THE EMBANKMENT HEIGHT AS 1M BY CUTTING THE EARTH.
 12. TROLLEY REFUSE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
 13. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)

TITLE :

ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A FROM CH. 297+800 TO CH. 299+000

DRAWING NO.	REV	SCALE
P 2 AL 0 5 6 8	E	HOR : 1:2000 VER : 1:200

REV	DATE	REMARKS
B	31.12.2015	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC2-LTT-2015-00572, DTD. 23.11.2015
C	18.01.2016	DFCC LETTER NO. ALD(W)ENPMOP-20281, DTD. 18.01.2016
D	10.02.2016	PROFILE REVISED AS PER DFCC LETTER NO. PMCS-EDFC2-LTT-2016-00132, DTD. 21.01.2016
E	29.05.2018	AS PER SITE CONDITION AND ROW PROBLEM FROM CH. 294+400 TO CH. 298+550

DRAWING STAGE

☒ FOR APPROVAL
☐ GOOD FOR CONSTRUCTION

PMC :

SYSTRA - Mott MacDonald JV

CONTRACTOR :

GIL - SIL JV

DESIGN CONSULTANT:

STUP Consultants Pvt. Ltd.

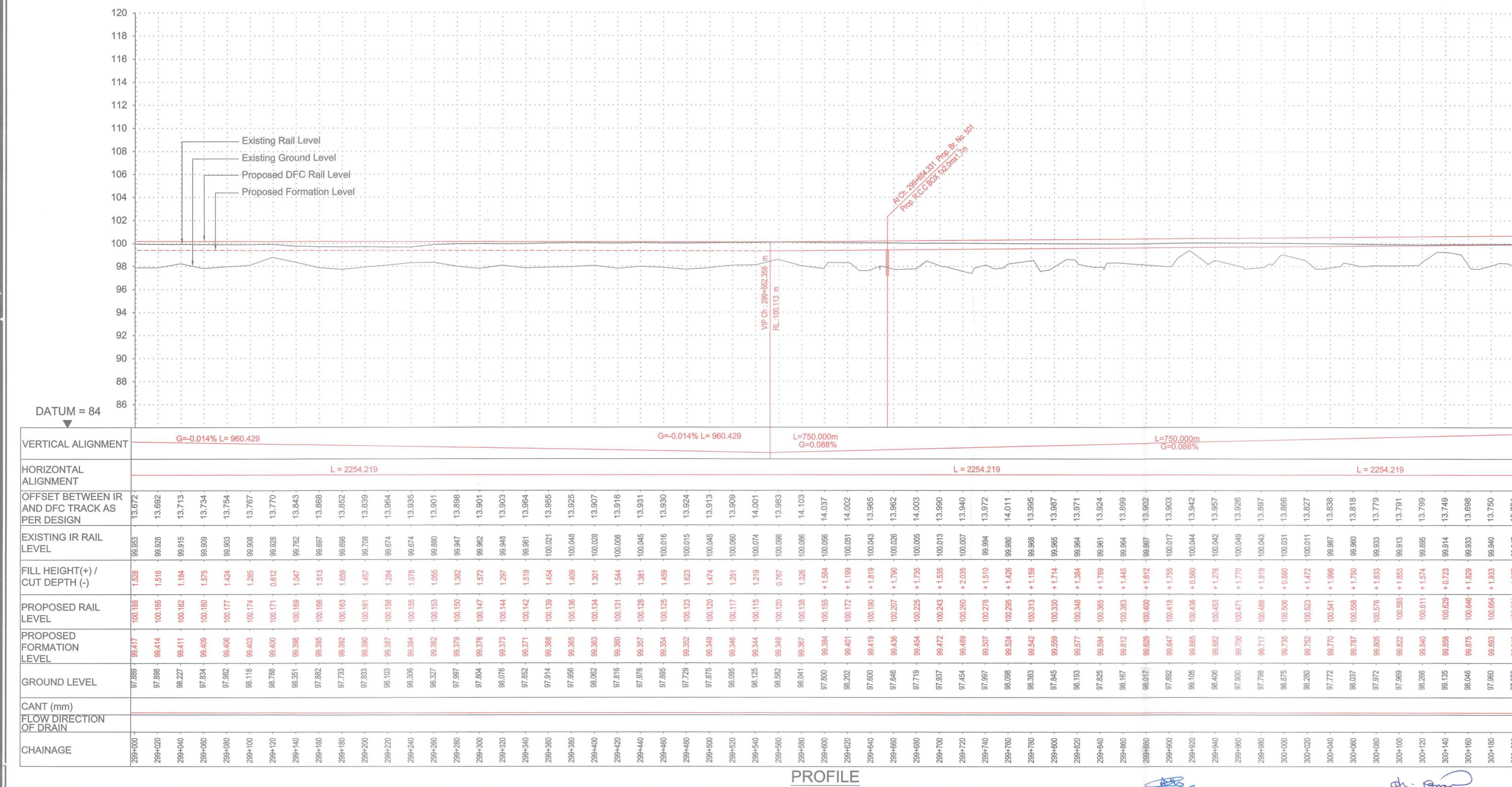
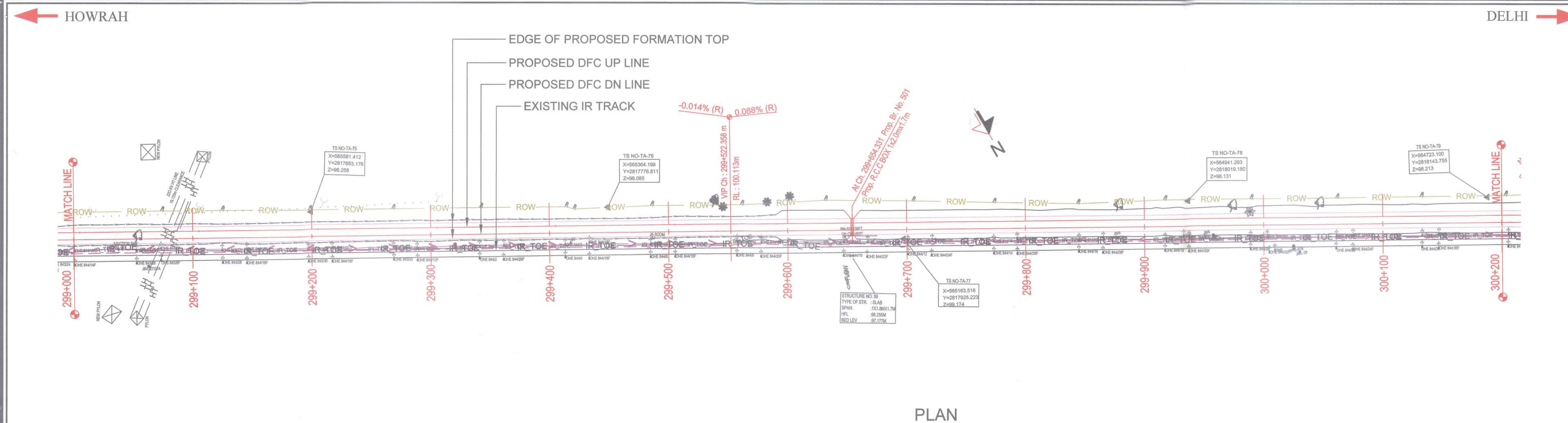
REGISTERED OFFICE : 1004-5 RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI 400 021.

OFFICE OF ORIGIN KOLKATA

	DATE	NAME	SIGN.
DRAWN	31.05.2018	SUSANTA ROY	
CHKD.	31.05.2018	SUDDHASIL PURKAIT	
APPD.	31.05.2018	SANJIB MITRA	
SUBMITTED BY :		GIL - SIL JV	
	DATE	NAME	SIGN.
CHKD.	01-06-18	REEPAK GUPTA	
APPD.	01-06-18	R.S.P. Singh	
NOC BY :		SYSTRA - Mott MacDonald JV	
	DATE	NAME	SIGN.
CHKD.	01-06-18	KAMAL SHARMA	
NOC	01-06-18	P. AMERIKANOS	
APPROVAL BY :		DFCC	
	DATE	NAME	SIGN.
CHKD.			
APPD.	05-06-18	S.K. MAURYA	

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APSL under Min. 49 (2015)



LEGEND :	
	EXISTING IR TRACK
	PROPOSED DFCC TRACK
	PROPOSED FORMATION
	DFCC ROW LINE
	EXISTING IR TOE LINE
	DFCC TOE LINE FOR EMB HT < 6.0M
	FLOW DIRECTION OF PROPOSED DRAIN
	EDGE OF PROPOSED FORMATION TOP
	EXISTING GROUND

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 DFC & EXITING IR TRACK HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
7. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
8. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RUNAWAY WATER.
9. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAIL DRAINAGE SYSTEM, DRAWINGS WILL BE SUBMITTED SEPARATELY
10. OFC CABLE FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY
11. PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED AT LOCATION WHERE EMBANKMENT HEIGHT IS $\leq 1\text{m}$ IT IS PROPOSED TO MAKE THE EMBANKMENT HEIGHT AS 1m BY CUTTING THE EARTH.
12. TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
13. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :  DEDICATED FREIGHT CORRIDOR
CORPORATION OF INDIA LTD.

PROJECT :	EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)
-----------	---

TITLE :
ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A
FROM CH. 299+000 TO CH. 300+200

DRAWING NO.						REV	SCALE
P	2	AL	0	5	6	9	D
							HOR : 1:2000 VER : 1:200

REVIEWS		
REV	DATE	REMARKS
B	13.12.2015	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC2-LTT-2016-00572, DTD 23.11.2015
C	18.01.2016	DPC LETTER NO. ALDW/ENR/PMC/P-2381, DTD 18.01.2016 PROFILE REVISED AS PER DPC LETTER NO.
D	10.02.2016	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC2-LTT-2016-00132, DTD. 21.01.2016
E	29.05.2018	AS PER SITE CONDITION AND ROAD PROBLEM FROM CH. KM 294+400 TO KM 299+580

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
	(The above information is for the purpose of filing the return only and is not to be used for any other purpose.)	

	DATE	SIGN.
DRAWN	31.05.2018	SUSANTA ROY
CHKD.	31.05.2018	SUDDHASIL PURKAIT
APPD.	31.05.2018	SANJIB MITRA

SUBMITTED BY : GIL - SIL JV

	DATE	NAME	
CHKD.	01.06.18	REEPAK GUPTA	
APPD.	01.06.18	R-S-P. Singh	

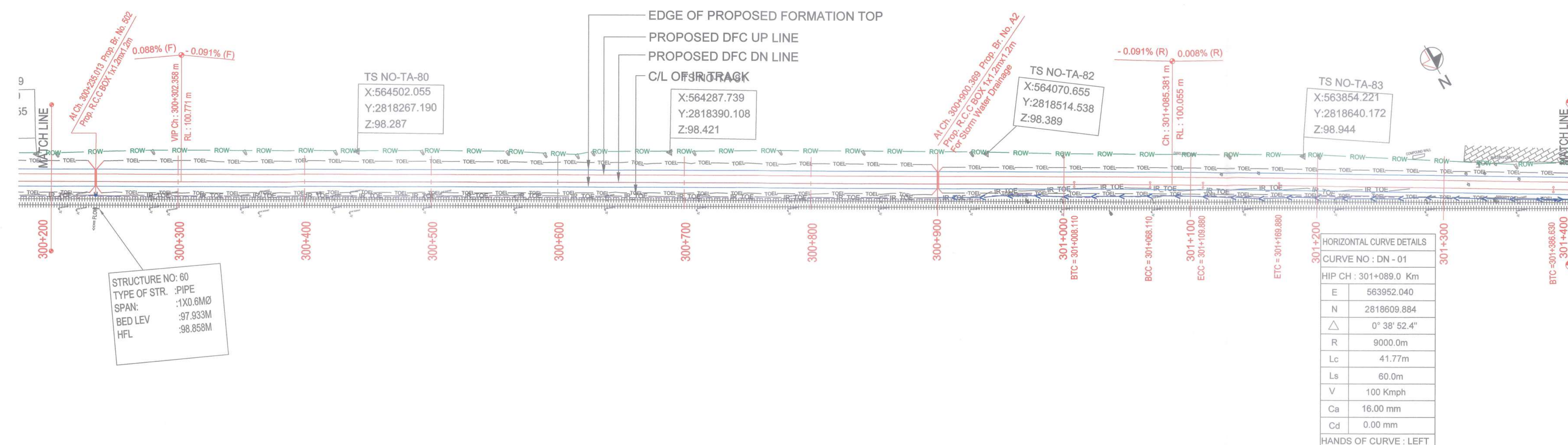
NOC BY : SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	01-06-18	KAMAL SHARMA	
NOC	01-06-18	P. AMERIKANOS	

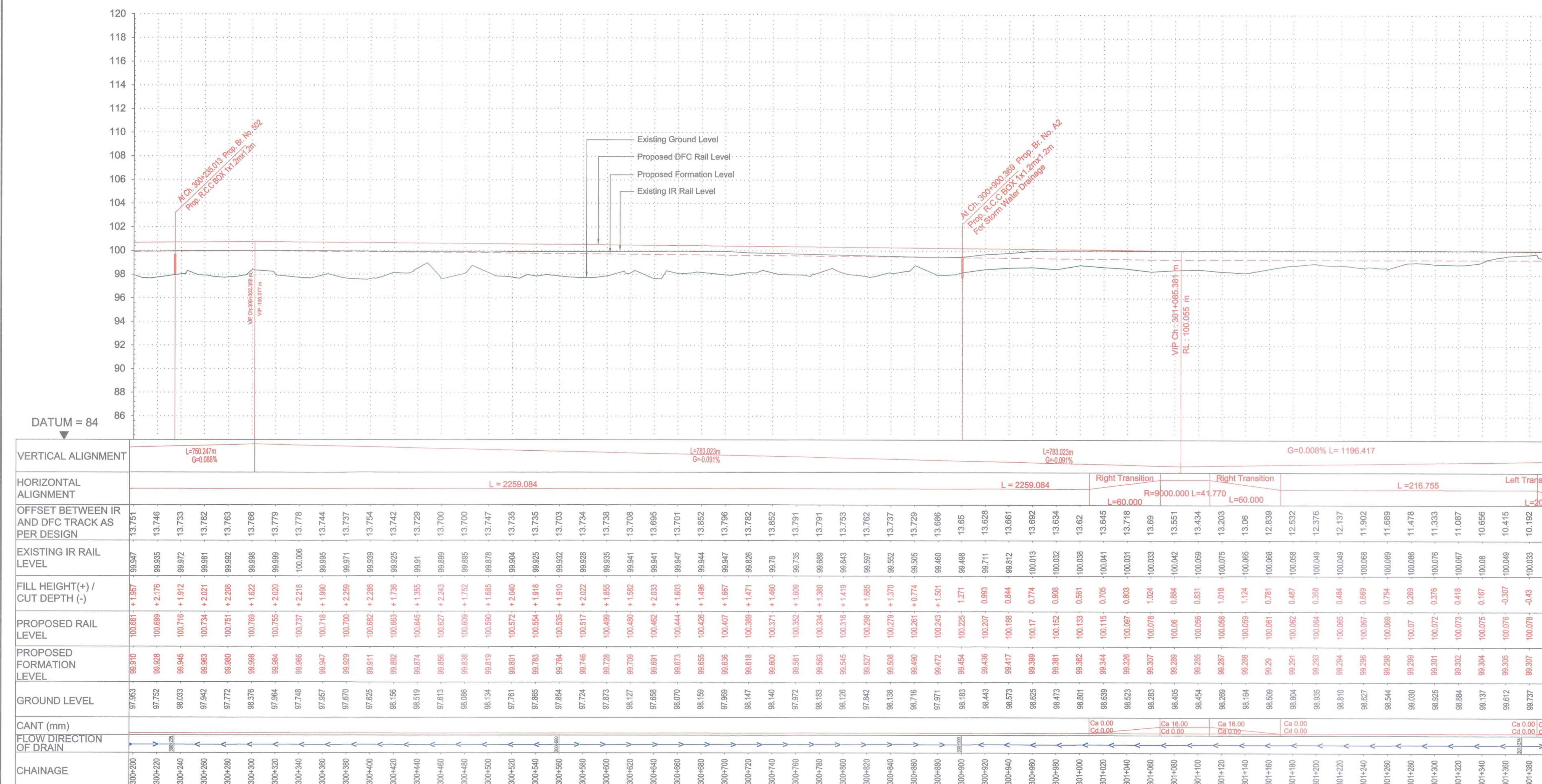
APPROVAL BY : DFCC

	DATE	NAME	SIGN.
CHKD.			
APPD.	05.06.18	S. K. MAURYA	

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PLAN



EMPLOYER :

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)

TITLE :

ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A

FROM CH. 300+200 TO CH. 301+400

DRAWING NO. REV SCALE

P 2 AL 0 5 7 0 H HOR : 1:2000 VER : 1:200

REVIEWS

REV	DATE	REMARKS
E	23.02.2017	REVISED AS PER SITE REQUIREMENT
F	03.08.2017	REVISION MADE AS PER PMC LETTER NO. PMCS/EDFC/2017/01478, DTD. 21.03.2017
G	02.02.2018	MODIFIED AS PER SITE CONDITION AND CHANGE IN ROW FROM CH. 300+900 TO 303+500
H	13.03.2018	REVISED DUE ROW CONSTRAINT FROM KM 301+700 TO KM 302+090

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 RAJEEVA CHAMBERS,
NARIMAN POINT,
MUMBAI 400 021.

OFFICE OF ORIGIN
KOLKATA

DATE	NAME	SIGN.
02.02.2018	SUSANTA ROY	
02.02.2018	SUDDHANTU PURKAIT	
02.02.2018	SANJIB MITRA	

SUBMITTED BY : GIL - SIL JV

DATE	NAME	SIGN.
03.04.18	REEPAK GUPTA	
03.04.18	R.S.P. Singh	

NOC BY : SYSTRA - Mott MacDonald JV

DATE	NAME	SIGN.
06-4-18	KAMAL SHARMA	
06-4-18	P. AMERIKANOS	

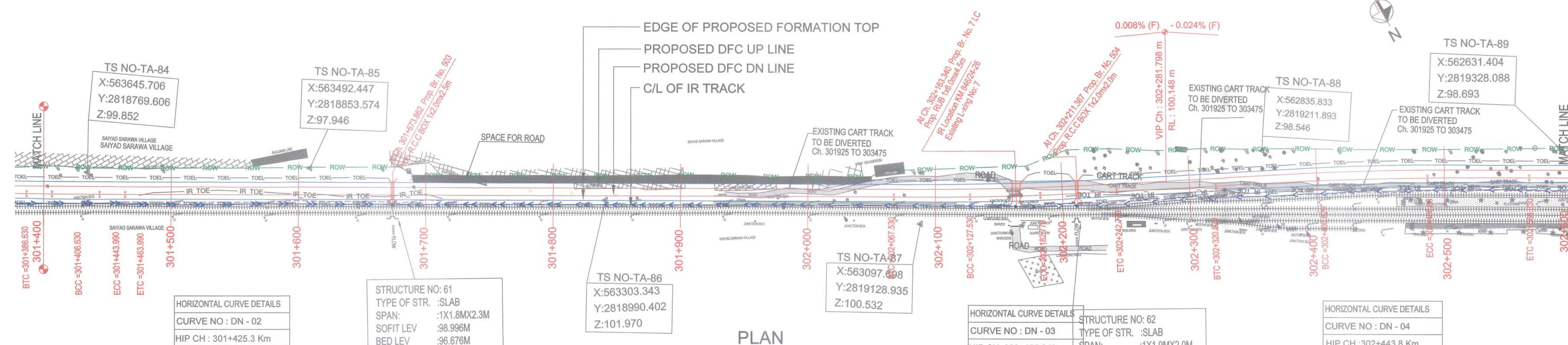
APPROVAL BY : DFCC

DATE	NAME	SIGN.
02.05.18	S.K. Maurya	

CHIEF PROJECT MANAGER

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(A.P.S.U. Under Min. of Railways)



HORIZONTAL CURVE DETAILS	
CURVE NO : DN - 02	
HIP CH : 301+425.3 Km	
E	563661.985
N	2818780.110
Δ	0° 32' 51.6"
R	- 6000.0m
Lc	37.35m
Ls	20.0m
V	100 Kmph
Ca	20.00 mm
Cd	3.00 mm
HANDS OF CURVE : LEFT	

STRUCTURE NO:	61
TYPE OF STR.	:SLAB
SPAN:	:1X1.8MX2.3M
SOFIT LEV	:98.996M
BED LEV	:96.676M
HFL	:98.226M

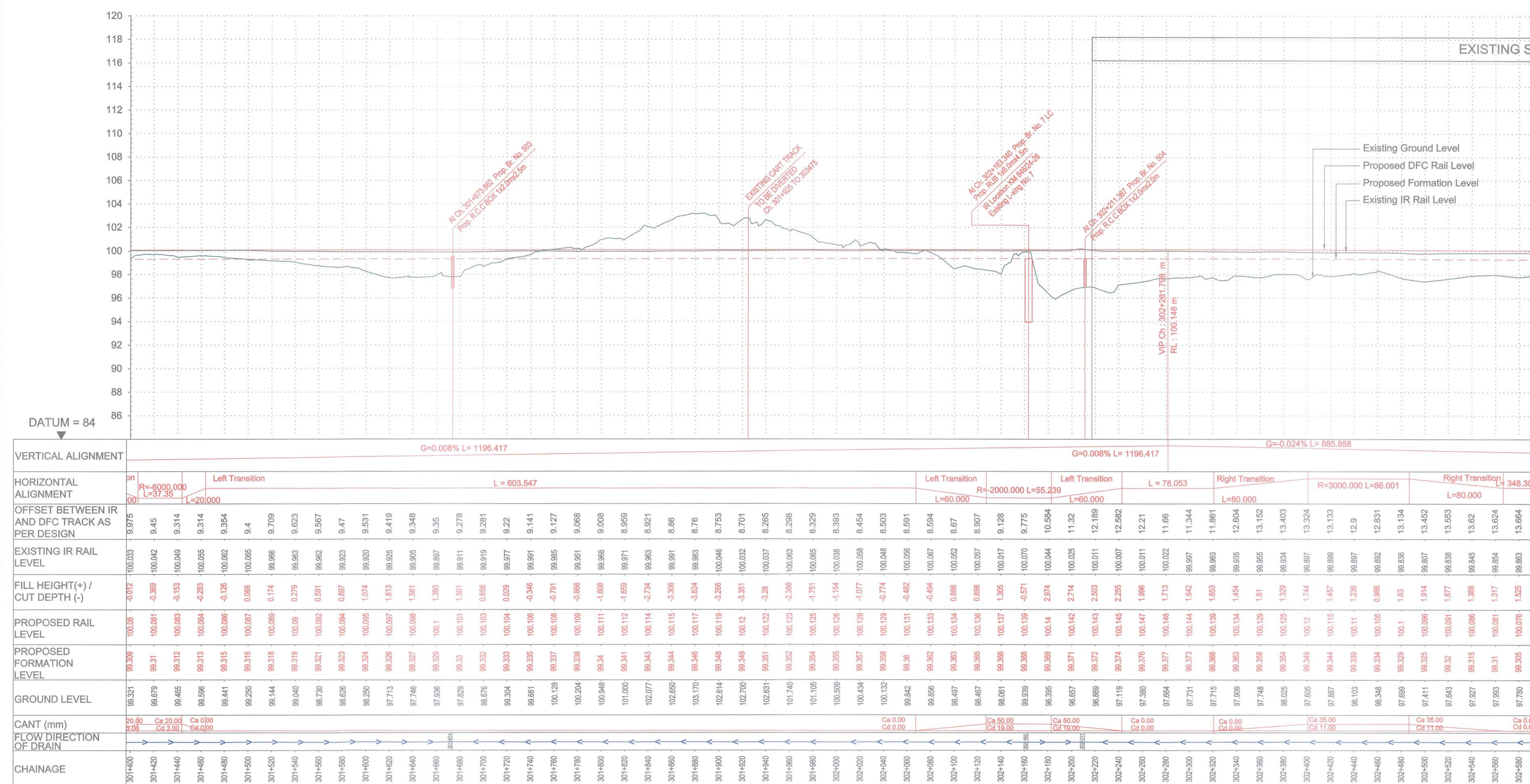
TS NO-TA-86
X:563303.343
Y:2818990.402
Z:101.970

TS NO-TA-87
X:563097.698
Y:2819128.935
Z:100.532

HORIZONTAL CURVE DETAILS	
CURVE NO : DN - 03	
HIP CH :302+155.2 Km	
E	563028.893
N	2819143.238
△	3° 18' 4.8"
R	- 2000.0m
Lc	55.24m
Ls	60.0m
V	100 Kmph
Ca	50.00 mm
Cd	19.00 mm
HANDS OF CURVE : LEFT	

STRUCTURE NO:	62
TYPE OF STR.	:SLAB
SPAN:	:1X1.9MX2.0M
SOFIT LEV	:98.941M
BED LEV	:96.971M
HFL	:98.166M

HORIZONTAL CURVE DETAILS	
CURVE NO : DN - 04	
HIP CH : 302+443.8 Km	
E	562771.491
N	2819273.912
△	3° 10' 13.4"
R	3000.0m
Lc	86.00m
Ls	80.0m
V	100 Kmph
Ca	35.00 mm
Cd	11.00 mm
HANDS OF CURVE : RIGHT	



LEGEND :

EXISTING IR TRACK
 PROPOSED DFCC TRACK
 PROPOSED FORMATION
 DFCC ROW LINE
 EXISTING IR TOE LINE
 DFCC TOE LINE FOR EMB HT < 6.0M
 FLOW DIRECTION OF PROPOSED DRAIN
 EDGE OF PROPOSED FORMATION TOP
 EXISTING GROUND

- 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. CHARGE 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 DFC & EXITING IR TRACK HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
 7. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
 8. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAIN WATER.
 9. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAIL DRAINAGE SYSTEM, DRAWINGS WILL BE SUBMITTED SEPARATELY.
 10. O/C CABLE FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 11. PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED TO THE LOCATION WHERE EMBANKMENT HEIGHT IS <1MT. IT IS PROPOSED TO MAKE THE EMBANKMENT HEIGHT AS 1M BY CUTTING THE EARTH.
 12. TROLLEY REFUGUE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
 13. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :  DEDICATED FREIGHT CORRIDOR
CORPORATION OF INDIA LTD.

PROJECT : EASTERN DEDICATED FREIGHT
CORRIDOR (PACKAGE - 202)

TITLE :
ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A
FROM CH. 301+400 TO CH. 302+600

DRAWING NO.		REV	SCALE
P	2 AL 0 5 7 1	H	HOR : 1:2000 VER : 1:200

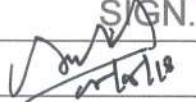
REVIEWS		
REV	DATE	REMARKS
E	23.02.2017	REVISED AS PER SITE REQUIREMENT
F	03.08.2017	REVISION MADE AS PER PMO LETTER NO. PMCS/ED/FC2/L1/2017/01478, DTD. 21.03.2017
G	02.02.2018	MODIFIED AS PER SITE CONDITION AND CHANGE IN ROW FROM CH. 300+900 TO 303+500.
H	13.03.2018	REVISED DUE ROW CONSTRAINT FROM KM 301+700 TO KM 302+090

DRAWING STAGE	
☒	FOR APPROVAL
☐	GOOD FOR CONSTRUCTION

PMC :  SYSTRA - Mott MacDonald JV

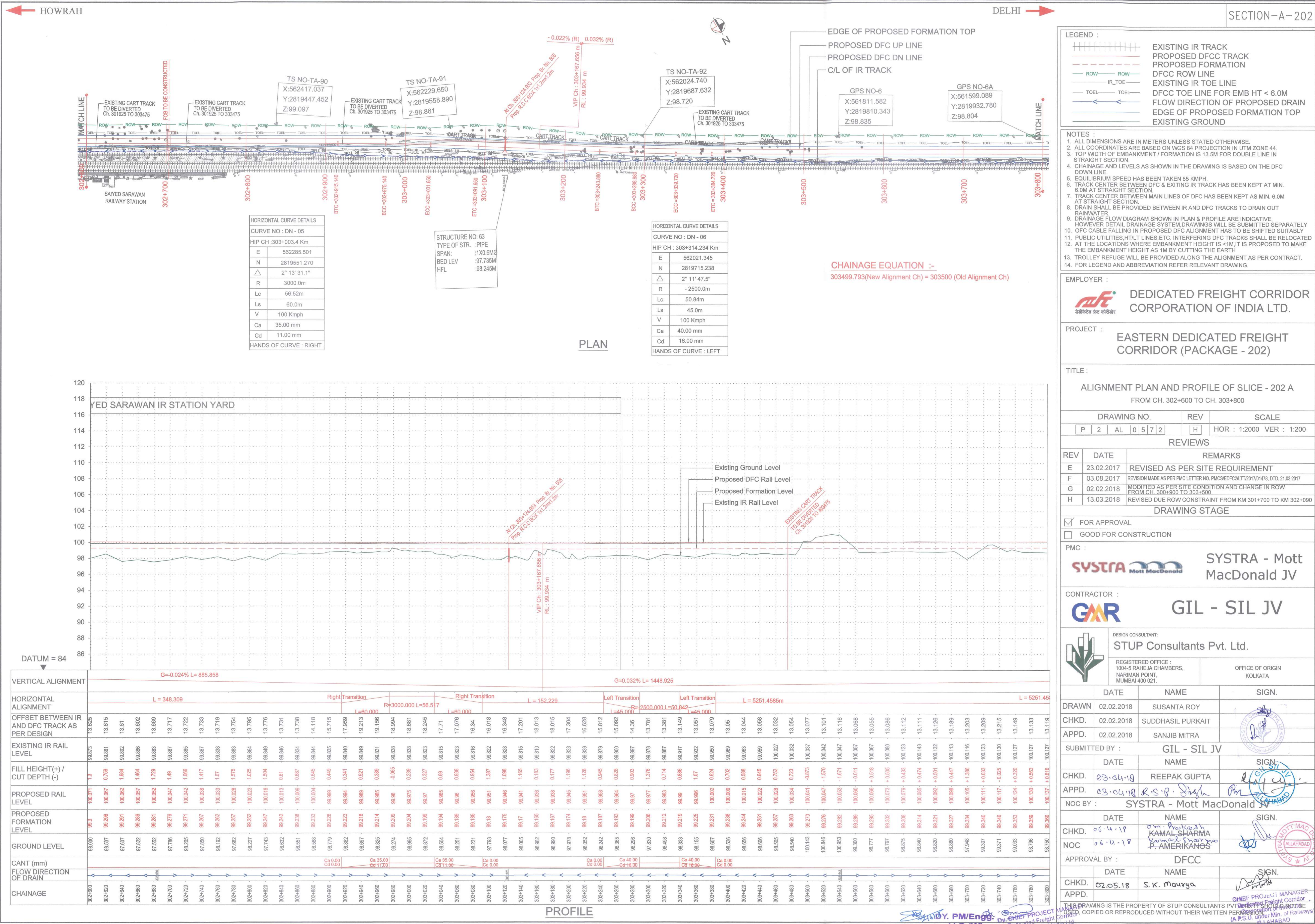
CONTRACTOR :  GIL - SIL JV

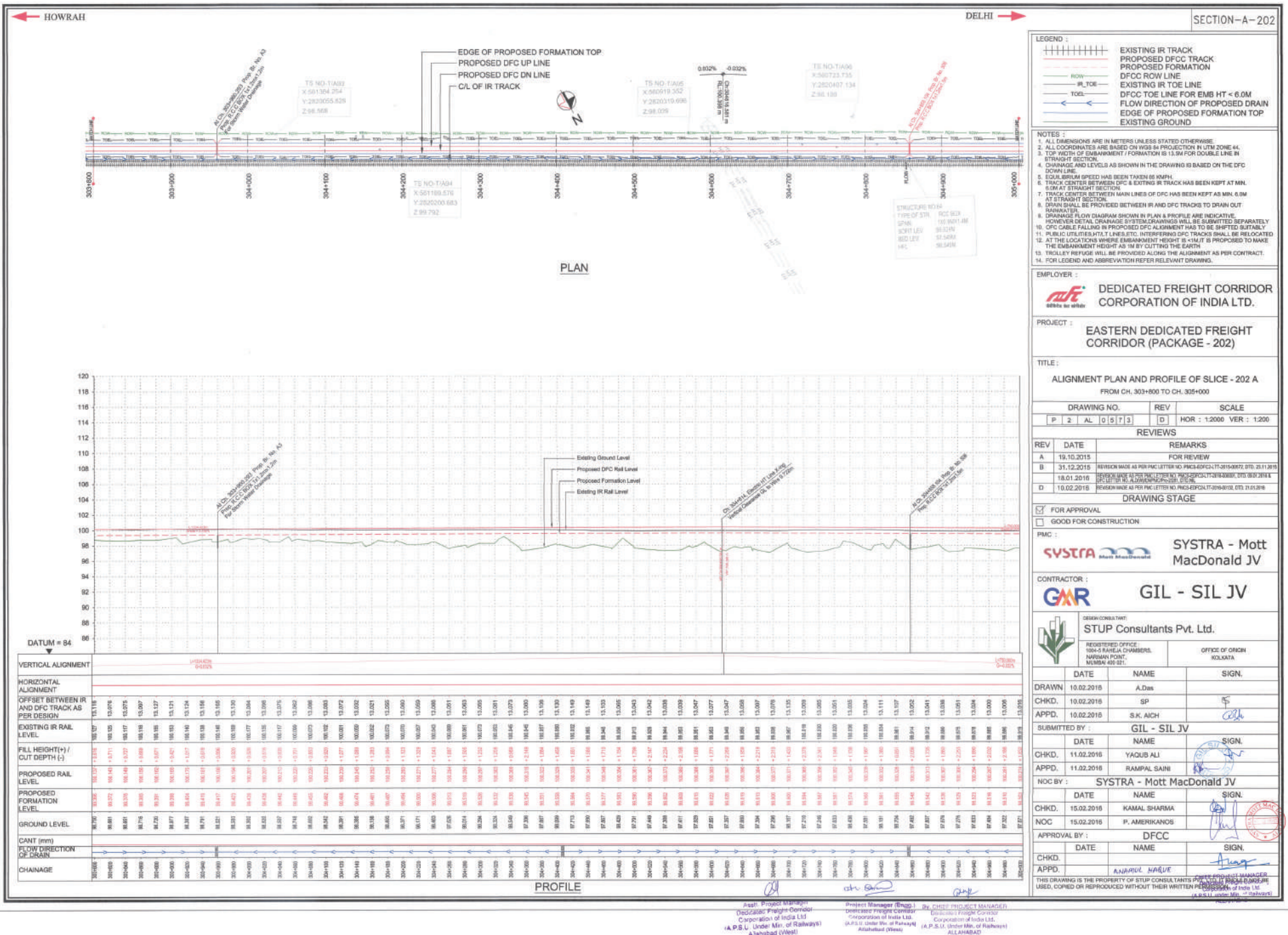
	DESIGN CONSULTANT: STUP Consultants Pvt. Ltd.	
	REGISTERED OFFICE : 1004-S RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI - 400 025	OFFICE OF ORIGIN KOLKATA

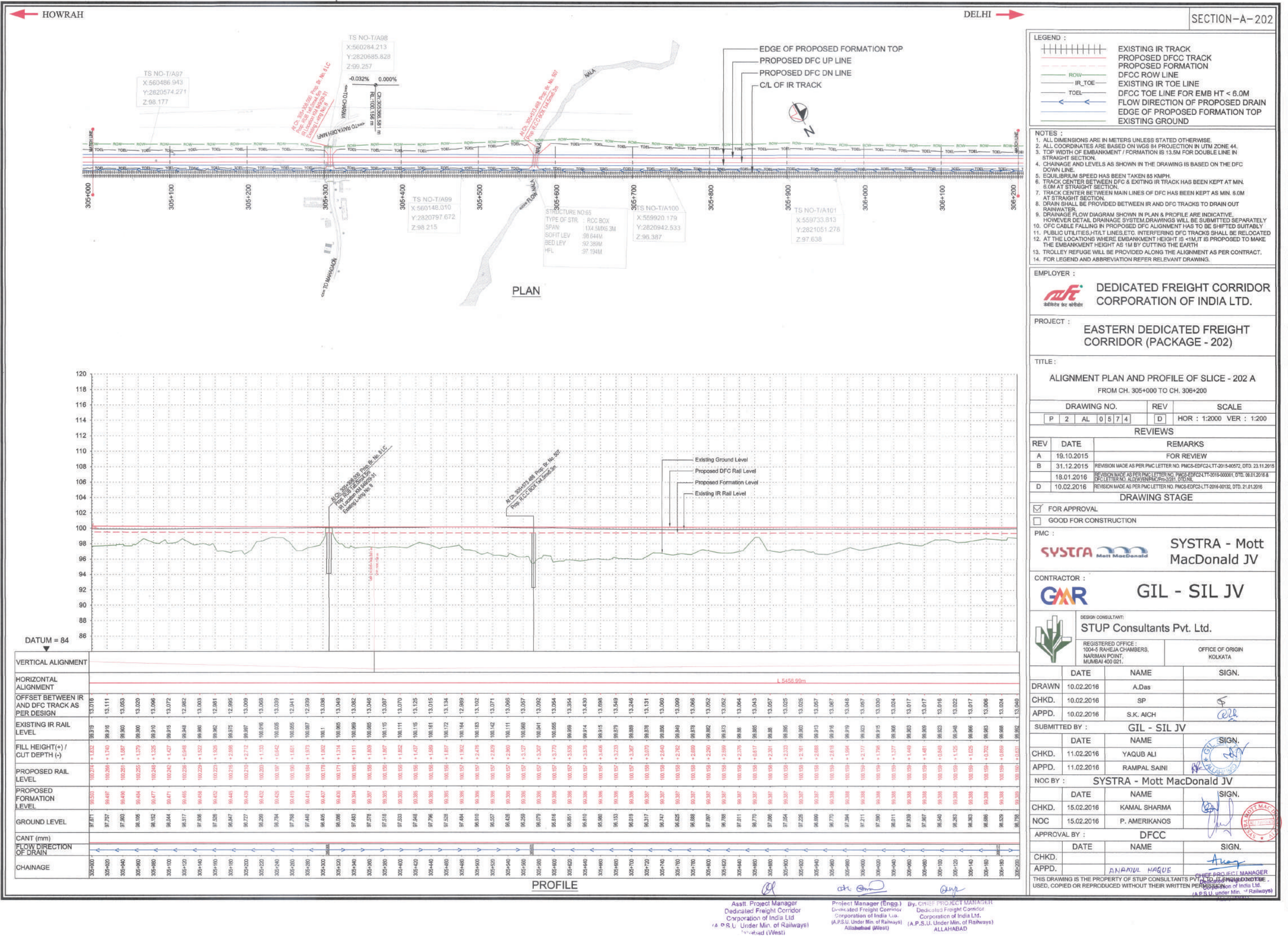
	DATE	NAME	SIGN.
DRAWN	02.02.2018	SUSANTA ROY	
CHKD.	02.02.2018	SUDDHASIL PURKAIT	
APPD.	02.02.2018	SANJIB MITRA	
SUBMITTED BY :		GIL - SIL JV	
	DATE	NAME	
CHKD.	03.04.18	REEPAK GUPTA	
APPD.	03.04.18	R.S.P. Singh	
NOC BY :		SYSTRA - Mott MacDonald JV	
	DATE	NAME	SIGN.
CHKD.	06-4-18	Om. Prakash KAMAL SHARMA	
NOC	06-4-18	Kamal Sharma P. AMERIKANOS	
APPROVAL BY :		DFCC	
	DATE	NAME	SIGN.
CHKD.	02.05.18	S.K. Maurya	
APPD.			

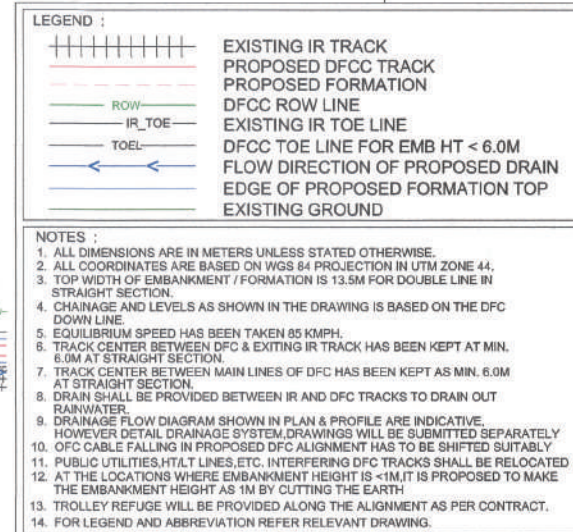
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(A.P.S.U. under Min. of Railways)









EMPLOYER :  DEDICATED FREIGHT CORRIDOR
CORPORATION OF INDIA LTD.

PROJECT :	EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)
-----------	---

TITLE :
ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A
FROM CH. 302+600 TO CH. 307+400

DRAWING NO.					REV	SCALE
P	2	AL	0	5	D	HOR : 1:2000 VER : 1:200

REVIEWS		
REV	DATE	REMARKS
A	19.10.2015	FOR REVIEW
B	31.12.2015	REVISION MADE AS PER PMC LETTER NO. PMCS-EDPC2-LT-2016-009572, DTD: 23.11.2016
C	18.01.2016	REVISION MADE AS PER PMC LETTER NO. PMCS-EDPC2-LT-2016-000001, DTD: 09.01.2016 & DEC LETTER NO. ADMV-EDPC2-LT-2016-000001, DTD: 09.01.2016
D	10.02.2016	REVISION MADE AS PER PMC LETTER NO. PMCS-EDPC2-LT-2016-001302, DTD: 21.01.2016

DRAWING STAGE

☒	FOR APPROVAL
☐	GOOD FOR CONSTRUCTION

PMc :  SYSTRA - Mott MacDonald IV

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	10.02.2016	A.Das	
CHKD.	10.02.2016	SP	
APPD.	10.02.2016	S.K. AICH	

SUBMITTED BY : GIL - SIL IV

	DATE	NAME	SIGN.
CHKD.	11.02.2016	YAQUB ALI	
APPD.	11.02.2016	RAMPAL SAINI	

NOC BY : SYSTRA - Mott MacDonald JV

	DATE	NAME	SIGN.
CHKD.	15.02.2016	KAMAL SHARMA	
NOC	15.02.2016	P. AMERIKANOS	

APPROVAL BY :

	DATE	NAME	SIGN.
CHKD.			<i>Anag</i>
APPD.		ANAMUL HAQUE	<i>Anag</i>

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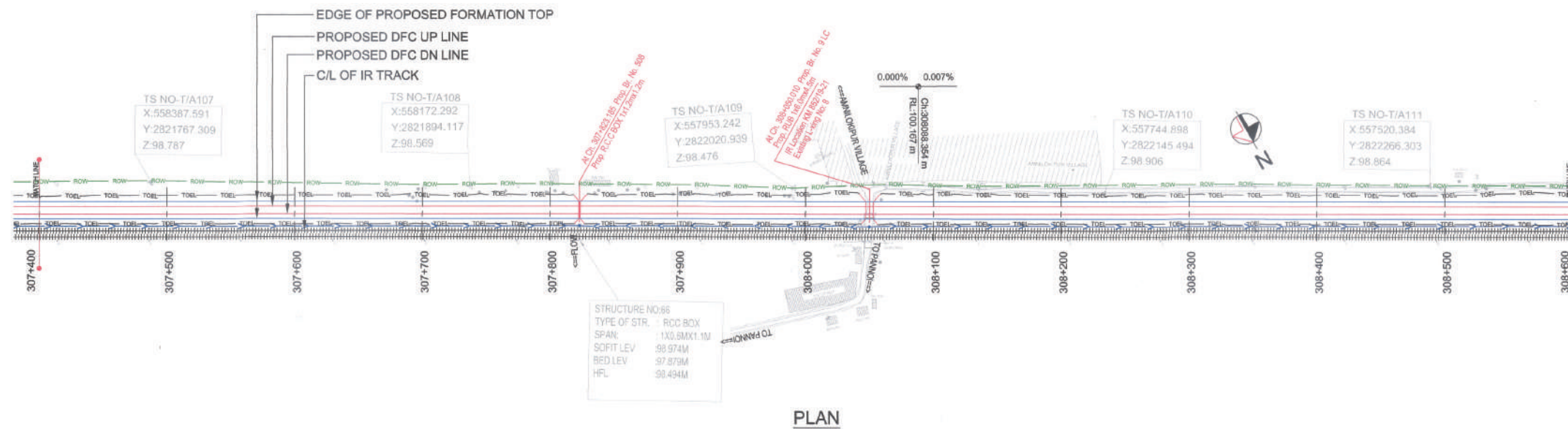
Asst. Project Manager
Dedicated Freight Corridor
Corporation of India Ltd
Under Min. of Railways

Project Manager (Engg.) Dedicated Freight Corridor Corporation of India Ltd. (A.P.S.U. Under Min. of Railways) Allahabad (West)	Dy. CHIEF PROJECT MANAGER Dedicated Freight Corridor Corporation of India Ltd. (A.P.S.U. Under Min. of Railways) ALLAHABAD
---	--

HOWRAH

DELHI

SECTION-A-202



LEGEND :

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROPOSED FORMATION
- DFCC ROW LINE
- EXISTING IR TOE LINE
- DFCC TOE LINE FOR EMB HT < 6.0M
- FLOW DIRECTION OF PROPOSED DRAIN
- EDGE OF PROPOSED FORMATION TOP
- EXISTING GROUND

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 DFCC DOWN LINE.
5. EQUILIBRIUM SPEED HAS BEEN TAKEN AS 85 KM/H.
6. TRACK CENTER BETWEEN DFCC & EXISTING IR TRACK HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
7. TRACK CENTER BETWEEN MAIN LINES OF DFCC HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
8. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFCC TRACKS TO DRAIN OUT RAINWATER.
9. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAIL DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
10. OFC CABLE FALLING IN PROPOSED DFCC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
11. PUBLIC UTILITIES, HT/L LINES, ETC. INTERFERING DFCC TRACKS SHALL BE RELOCATED.
12. AT THE LOCATIONS WHERE EMBANKMENT HEIGHT IS < 1M, IT IS PROPOSED TO MAKE THE EMBANKMENT HEIGHT AS 1M BY CUTTING THE EARTH.
13. TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
14. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :



DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)

TITLE :

ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A
FROM CH. 307+400 TO CH. 308+600

DRAWING NO.

REV

SCALE

P 2 AL 0576 D HOR : 1:2000 VER : 1:200

REVIEWS

REV	DATE	REMARKS
A	19.10.2015	FOR REVIEW
B	31.12.2015	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC3-LTT-2015-00672, DTD. 23.11.2015
C	18.01.2016	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC3-LTT-2015-000091, DTD. 06.01.2016 & OFC LETTER NO. ALDW/EN/PMCP/2015-00001, DTD. 01.01.2016
D	10.02.2016	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC3-LTT-2015-00132, DTD. 21.01.2016

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-S RAHEJA CHAMBERS,
NARIMAN POINT,
MUMBAI 400 021.OFFICE OF ORIGIN
KOLKATA

DATUM = 84



VERTICAL ALIGNMENT

HORIZONTAL ALIGNMENT

OFFSET BETWEEN IR AND DFCC TRACK AS PER DESIGN

EXISTING IR RAIL LEVEL

FILL HEIGHT(+) / CUT DEPTH (-)

PROPOSED RAIL LEVEL

PROPOSED FORMATION LEVEL

GROUND LEVEL

CANT (mm)

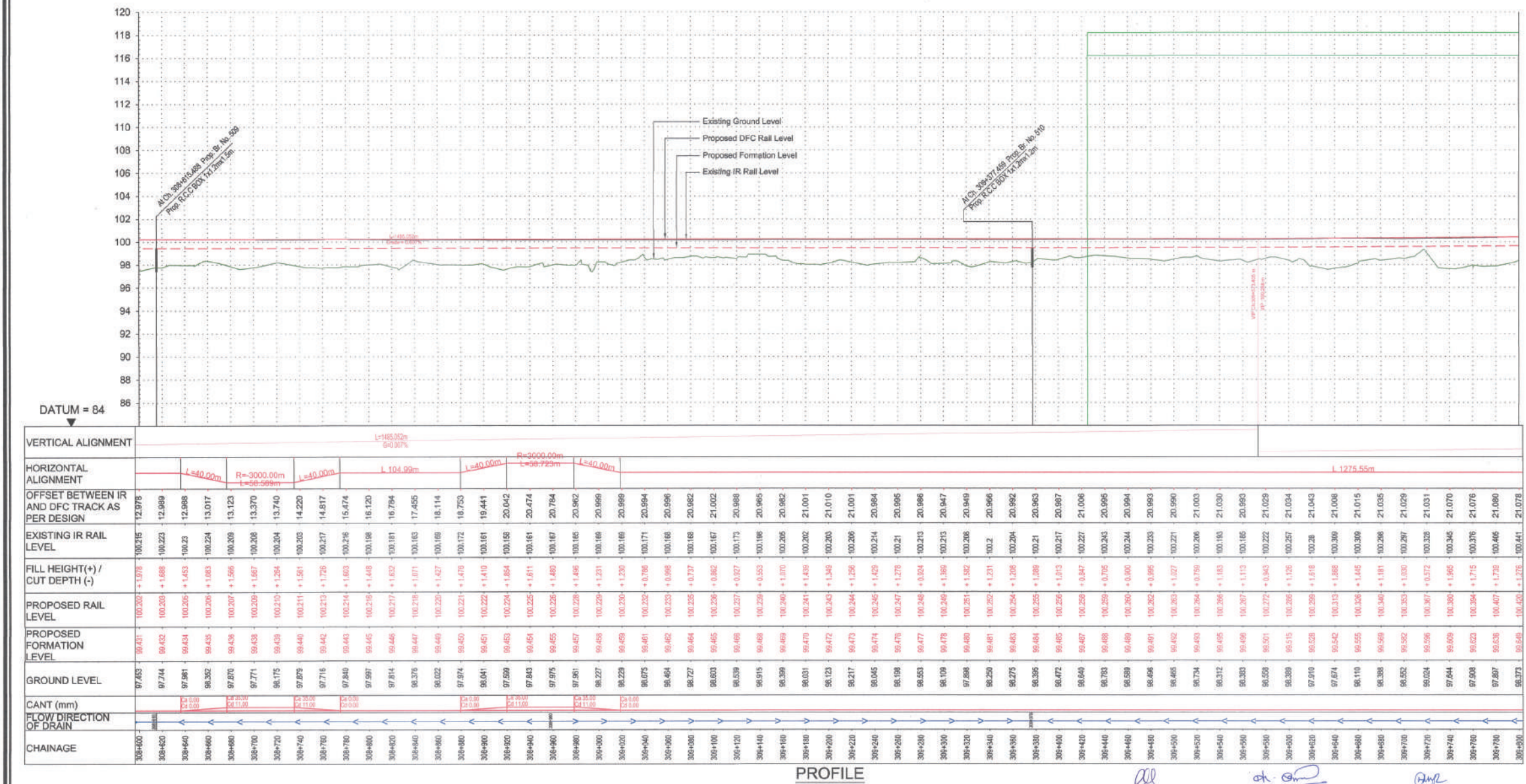
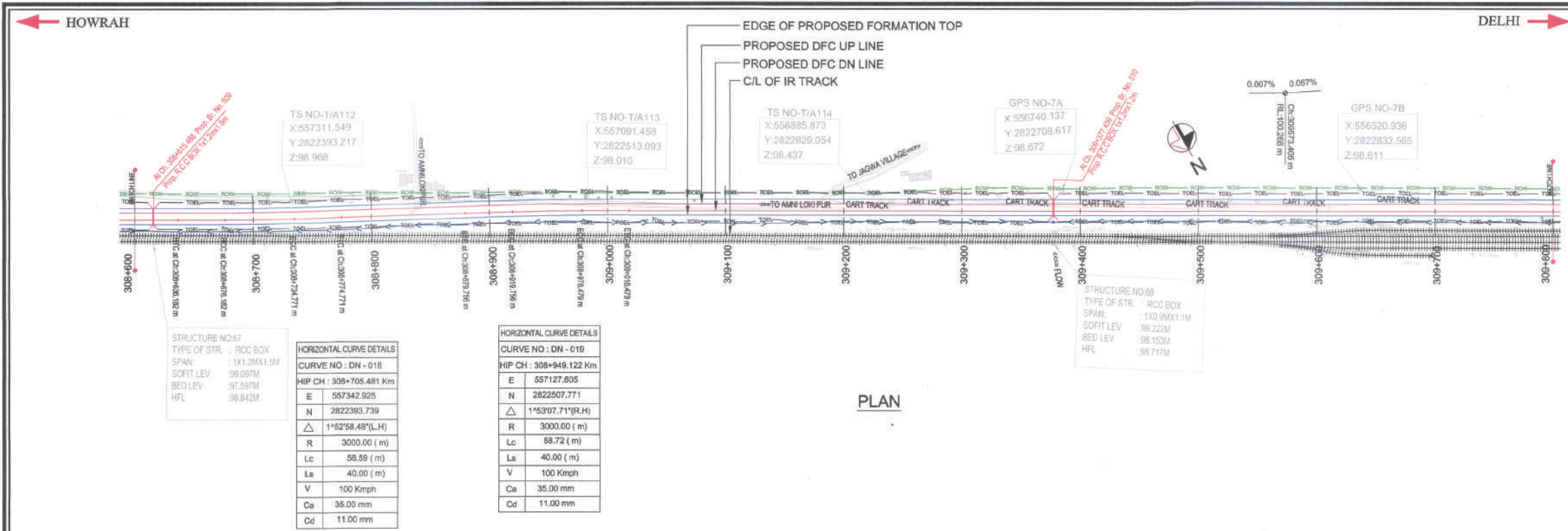
FLOW DIRECTION OF DRAIN

CHAINAGE

PROFILE

Asstt. Project Manager
Dedicated Freight Corridor
Corporation of India Ltd
(A.P.S.U. Under Min. of Railways)
Allahabad (West)Project Manager (Engg.)
Dedicated Freight Corridor
Corporation of India Ltd.
(A.P.S.U. Under Min. of Railways)
Allahabad (West)By: CHIEF PROJECT MANAGER
Dedicated Freight Corridor
Corporation of India Ltd.
(A.P.S.U. Under Min. of Railways)
ALLAHABAD

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SECTION-A-202

LEGEND :

- EXISTING IR TRACK
- PROPOSED DFCC TRACK
- PROPOSED FORMATION
- DFCC ROW LINE
- EXISTING IR TOE LINE
- DFCC TOE LINE FOR EMB HT < 6.0M
- FLOW DIRECTION OF PROPOSED DRAIN
- EDGE OF PROPOSED FORMATION TOP
- EXISTING GROUND

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 AS 85 KM/H.
- TRACK CENTER BETWEEN DFC & EXISTING IR TRACK HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
- 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.
- DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAIL DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
- DFCC CABLE FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
- PUBLIC UTILITIES, HTA/T LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED.
- AT THE LOCATIONS WHERE EMBANKMENT HEIGHT IS < 1M, IT IS PROPOSED TO MAKE THE EMBANKMENT HEIGHT AS 1M BY CUTTING THE EARTH.
- TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
- FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)

TITLE :

ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A
FROM CH. 308+600 TO CH. 309+800

DRAWING NO.	REV	SCALE
P 2 AL 0577	D	HOR : 1:2000 VER : 1:200

REVIEWS

REV	DATE	REMARKS
A	19.10.2015	FOR REVIEW
B	31.12.2015	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC2-LTT-2015-00572, DTD. 23.11.2015
C	18.01.2016	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC2-LTT-2016-000001, DTD. 09.01.2016 & DFC LETTER NO. ALDW/EN/PM/PC/2016-000001, DTD. 09.01.2016
D	10.02.2016	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC2-LTT-2016-00132, DTD. 21.01.2016

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

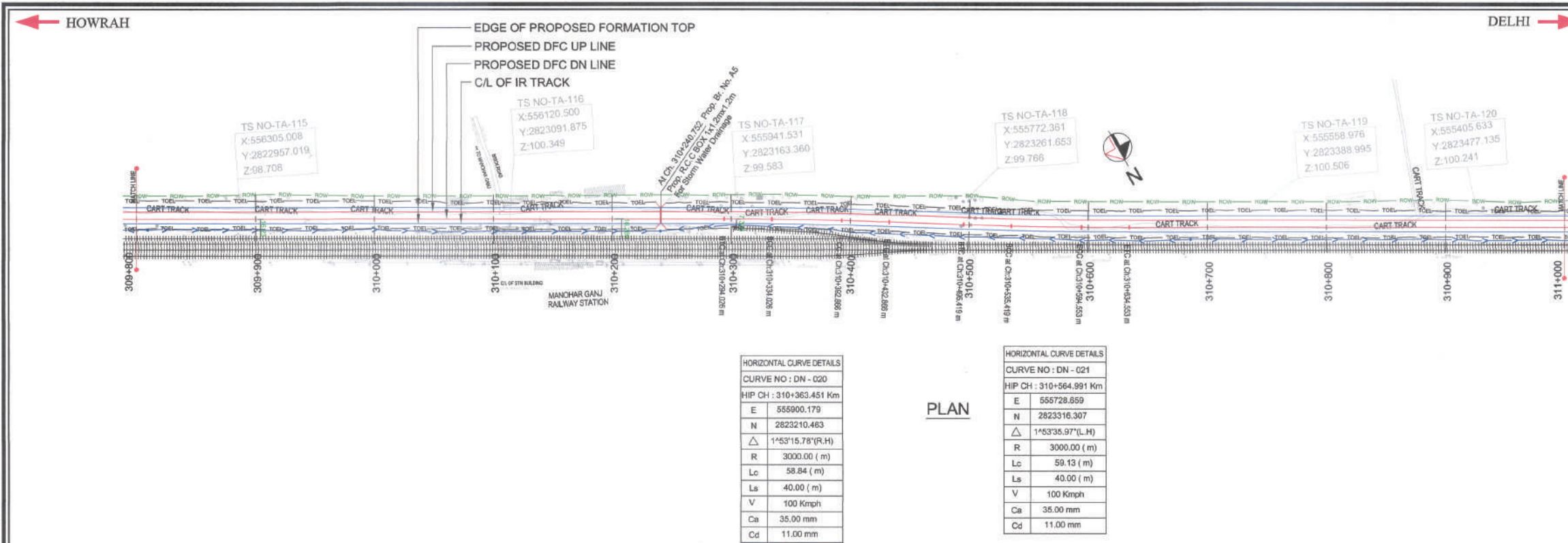
DATE	NAME	SIGN.
10.02.2016	A.Das	
10.02.2016	SP	
10.02.2016	S.K. AICH	
SUBMITTED BY : GIL - SIL JV		
DATE	NAME	SIGN.
11.02.2016	YAKUB ALI	
11.02.2016	RAMPAL SAINI	
NOC BY : SYSTRA - Mott MacDonald JV		
DATE	NAME	SIGN.
15.02.2016	KAMAL SHARMA	
15.02.2016	P. AMERIKANOS	
APPROVAL BY : DFCC		
DATE	NAME	SIGN.
	ANAMUL HAQUE	

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Asst. Project Manager
Dedicated Freight Corridor
Corporation of India Ltd.
(A.P.S.U. Under Min. of Railways)
Allahabad (West)

Project Manager (Engrg.)
Dedicated Freight Corridor
Corporation of India Ltd.
(A.P.S.U. Under Min. of Railways)
Allahabad (West)

By: CHIEF PROJECT MANAGER
Dedicated Freight Corridor
Corporation of India Ltd.
(A.P.S.U. Under Min. of Railways)
ALLAHABAD



HORIZONTAL CURVE DETAILS

CURVE NO : DN - 020

HIP CH : 310+363.451 Km

E	555900.179
N	2823210.463
Δ	1°53'15.78" (R.H.)
R	3000.00 (m)
Lc	58.84 (m)
Ls	40.00 (m)
V	100 Km/h
Ca	35.00 mm
Cd	11.00 mm

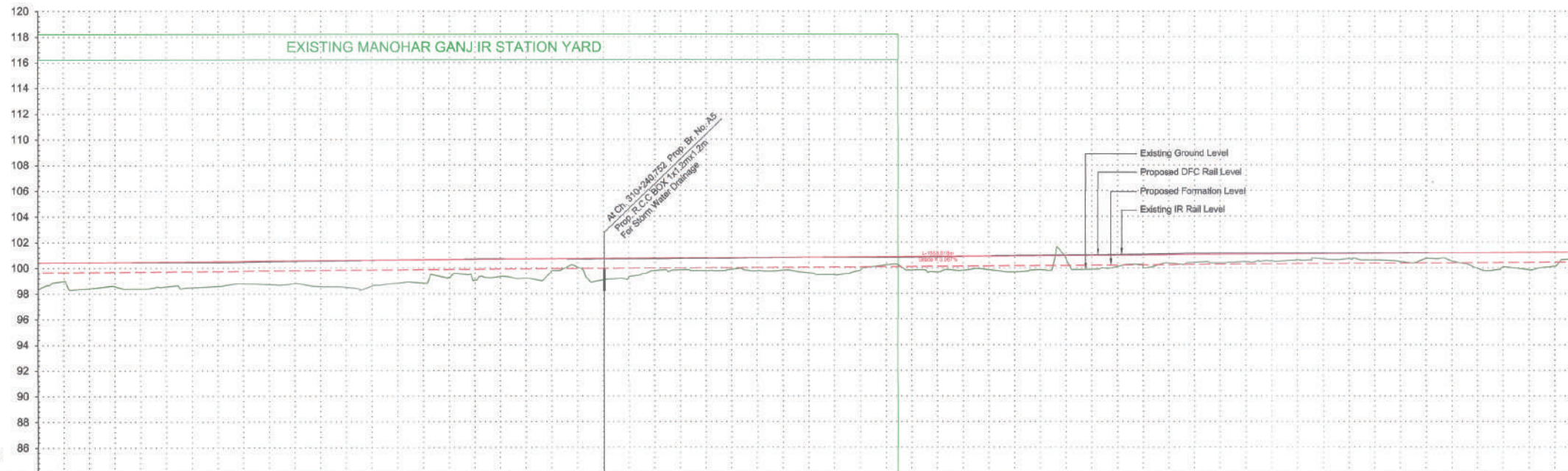
HORIZONTAL CURVE DETAILS

CURVE NO : DN - 021

HIP CH : 310+564.991 Km

E	555728.559
N	2823316.307
Δ	1°53'35.97" (L.H.)
R	3000.00 (m)
Lc	59.13 (m)
Ls	40.00 (m)
V	100 Km/h
Ca	35.00 mm
Cd	11.00 mm

PLAN



DATUM = 84

VERTICAL ALIGNMENT		L=40.00m		R=3000.00m L=58.841m		L=40.00m		L=62.55m		L=40.00m		R=3000.00m L=59.134m		L=40.00m	
HORIZONTAL ALIGNMENT															
OFFSET BETWEEN IR AND DFC TRACK AS PER DESIGN	21.078	21.107	21.113	21.057	21.025	21.010	21.027	21.025	21.019	21.004	21.009	21.004	21.004	21.004	21.004
EXISTING IR RAIL LEVEL	100.441	100.448	100.453	100.458	100.472	100.486	100.498	100.485	100.465	100.435	100.405	100.375	100.345	100.315	100.285
FILL HEIGHT (+) / CUT DEPTH (-)	+1.278	+0.897	+0.848	+0.813	+0.785	+0.757	+0.729	+0.701	+0.673	+0.645	+0.617	+0.589	+0.561	+0.533	+0.505
PROPOSED RAIL LEVEL	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719
PROPOSED FORMATION LEVEL	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719	101.719
GROUND LEVEL	100.441	100.448	100.453	100.458	100.472	100.486	100.498	100.485	100.465	100.435	100.405	100.375	100.345	100.315	100.285
CANT (mm)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FLOW DIRECTION OF DRAIN	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
CHAINAGE	309+000	309+020	309+040	309+060	309+080	309+100	309+120	309+140	309+160	309+180	309+200	309+220	309+240	309+260	309+280

PROFILE

LEGEND :

—	EXISTING IR TRACK
—	PROPOSED DFC TRACK
—	PROPOSED FORMATION
—	DFCC ROW LINE
—	EXISTING IR TOE LINE
—	DFCC TOE LINE FOR EMB HT < 6.0M
—	FLOW DIRECTION OF PROPOSED DRAIN
—	EDGE OF PROPOSED FORMATION TOP
—	EXISTING GROUND

- 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 KM/H.
 6. TRACK CENTER BETWEEN DFC & EXISTING IR TRACK HAS BEEN KEPT AT MIN. 6.0M AT STRAIGHT SECTION.
 7. TRACK CENTER BETWEEN MAIN LINES OF DFC HAS BEEN KEPT AS MIN. 6.0M AT STRAIGHT SECTION.
 8. DRAIN SHALL BE PROVIDED BETWEEN IR AND DFC TRACKS TO DRAIN OUT RAINWATER.
 9. DRAINAGE FLOW DIAGRAM SHOWN IN PLAN & PROFILE ARE INDICATIVE. HOWEVER DETAIL DRAINAGE SYSTEM DRAWINGS WILL BE SUBMITTED SEPARATELY.
 10. DFC CABLE FALLING IN PROPOSED DFC ALIGNMENT HAS TO BE SHIFTED SUITABLY.
 11. PUBLIC UTILITIES, HT/LT LINES, ETC. INTERFERING DFC TRACKS SHALL BE RELOCATED.
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 13. TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
 14. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)

TITLE :

ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A

FROM CH. 309+800 TO CH. 311+000

DRAWING NO.	REV	SCALE
P 2 AL 0 5 7 8	D	HOR : 1:2000 VER : 1:200

REVIEWS

REV	DATE	REMARKS
A	19.10.2015	FOR REVIEW
B	31.12.2015	REVISION MADE AS PER PNC LETTER NO. PNC-EDFC-2/15-00672, DTD. 23.11.2015
C	18.01.2016	REVISION MADE AS PER PNC LETTER NO. PNC-EDFC-2/16-00001, DTD. 09.07.2016 & DFC LETTER NO. ALD/WM/PM/2016-0281, DTD. 01.08.2016
D	10.02.2016	REVISION MADE AS PER PNC LETTER NO. PNC-EDFC-2/16-00132, DTD. 21.01.2016

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-S RAHEJA CHAMBERS, NARIMAN POINT, MUMBAI-400 021.

OFFICE OF ORIGIN KOLKATA

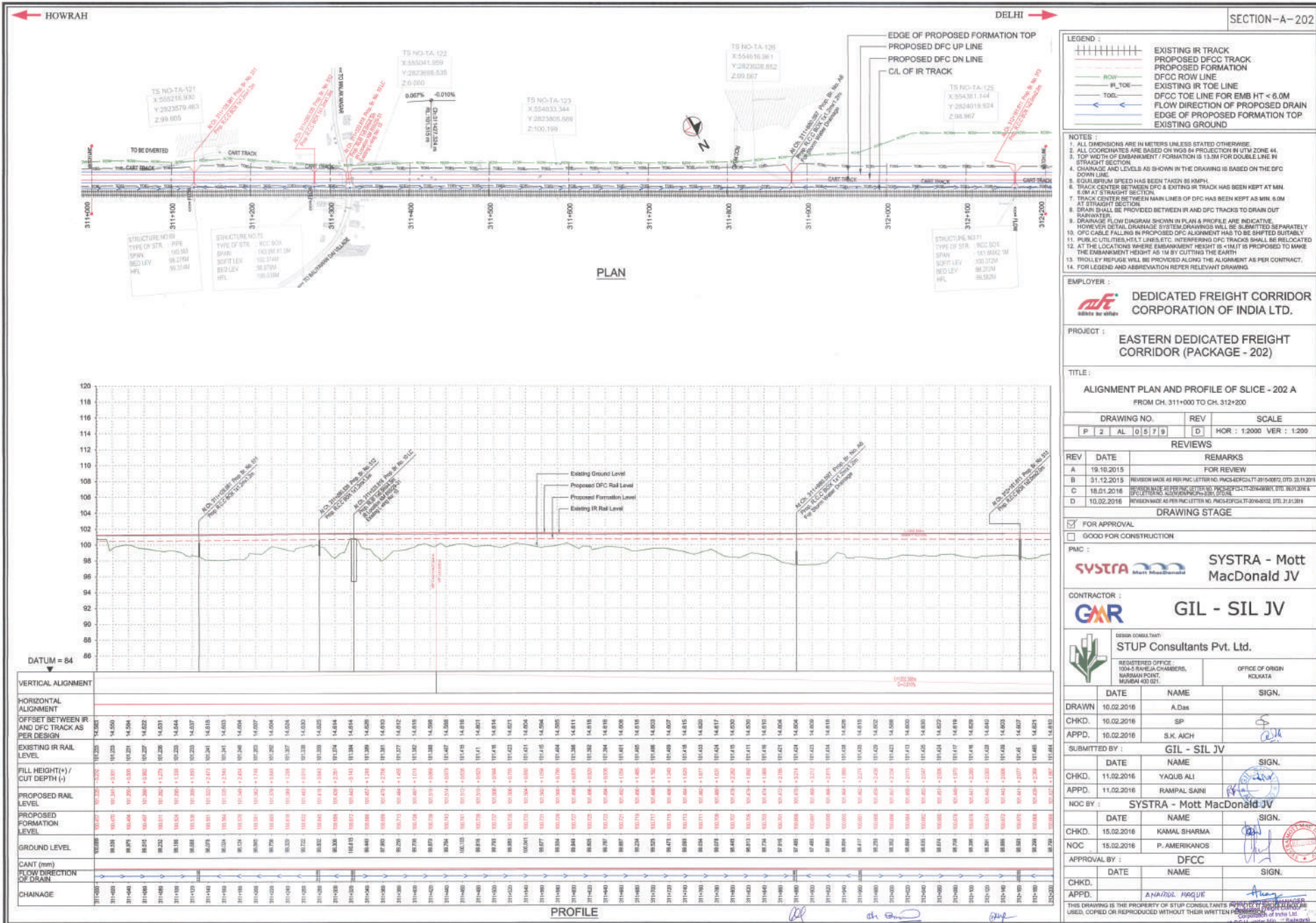
DATE	NAME	SIGN.
10.02.2016	A.Das	
10.02.2016	SP	
10.02.2016	S.K. AICH	
SUBMITTED BY : GIL - SIL JV		
DATE	NAME	SIGN.
11.02.2016	YAUUB ALI	
11.02.2016	RAMPAL SAINI	
NOC BY : SYSTRA - Mott MacDonald JV		
DATE	NAME	SIGN.
15.02.2016	KAMAL SHARMA	
15.02.2016	P. AMERIKANOS	
APPROVAL BY : DFCC		
DATE	NAME	SIGN.
	ANAMUL HAQUE	

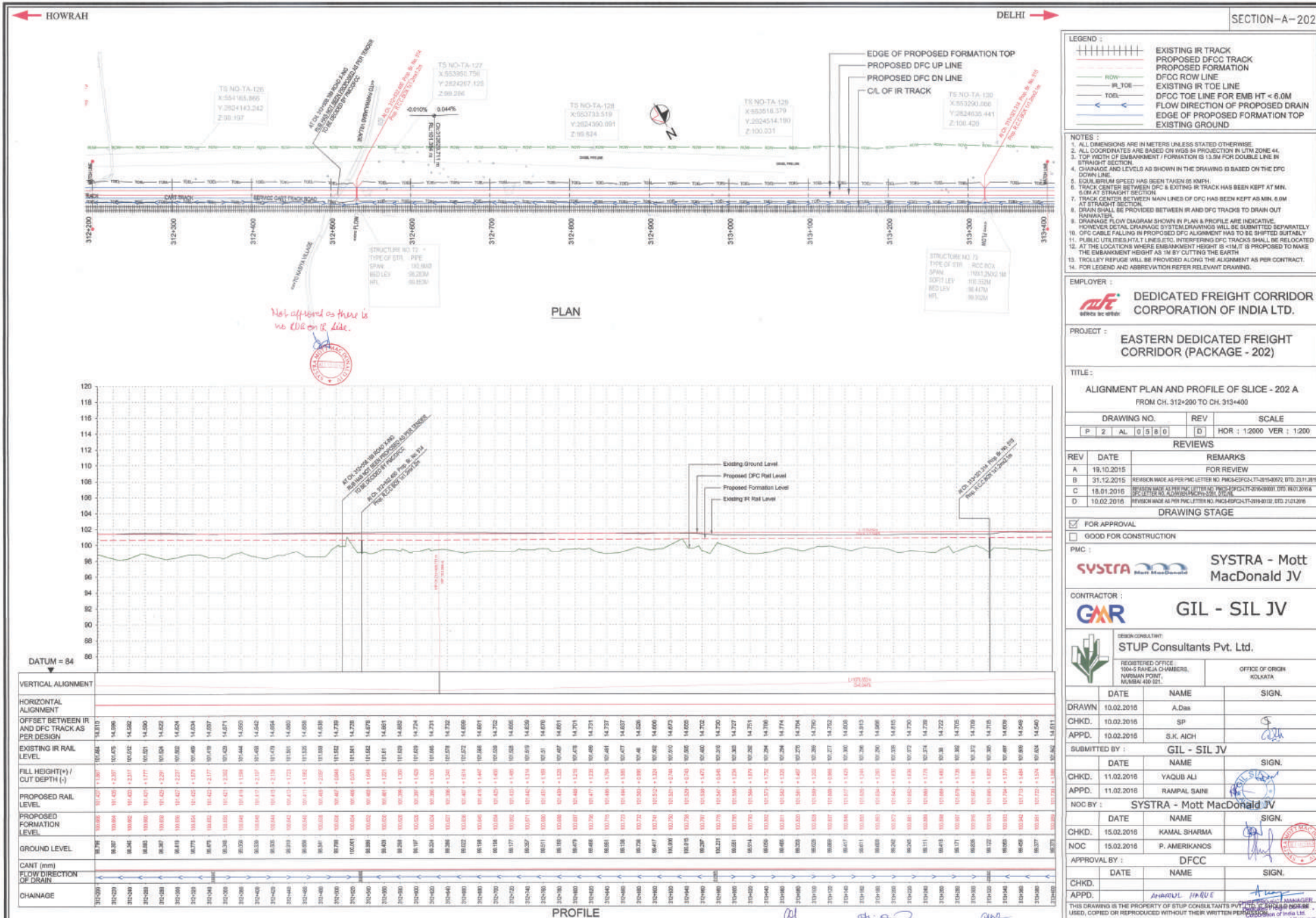
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Asstt. Project Manager
Dedicated Freight Corridor
Corporation of India Ltd.
(A.P.S.U. Under Min. of Railways)
Allahabad (West)

Project Manager (Engg.)
Dedicated Freight Corridor
Corporation of India Ltd.
(A.P.S.U. Under Min. of Railways)
Allahabad (West)

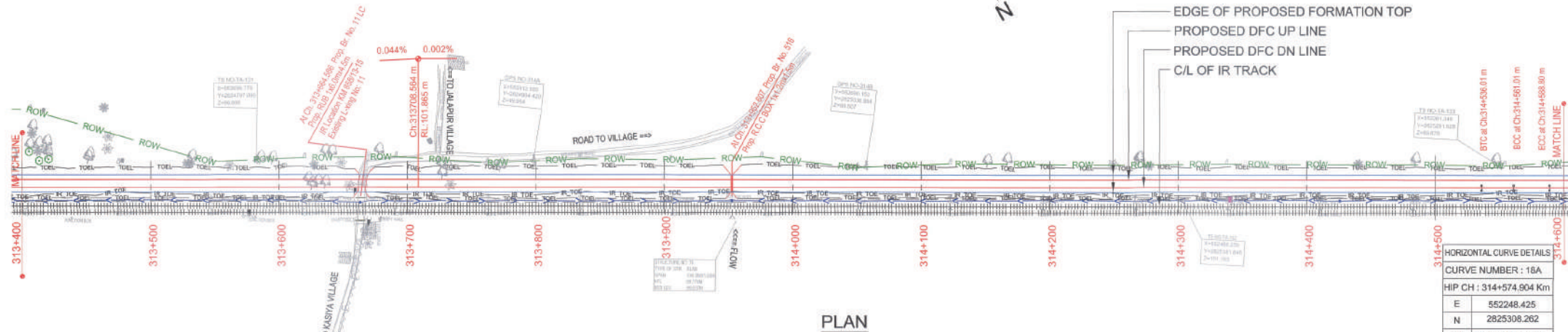
By, CHIEF PROJECT MANAGER
Dedicated Freight Corridor
Corporation of India Ltd.
(A.P.S.U. Under Min. of Railways)
Allahabad





← HOWRAH

→ DELHI



PLAN

HORIZONTAL CURVE DETAILS

CURVE NUMBER : 18A

HIP CH : 314+574.904 Km

E	552248.425
N	2825308.262
Δ	0° 0' 1.31" (L.H)
R	12000.0m (m)
Lc	27.79 (m)
Ls	25.0 (m)
V	100 Km/h
Ca	15.00 mm
Cd	0.00 mm

LEGEND :

---	EXISTING IR TRACK
---	PROPOSED DFCC TRACK
---	PROPOSED FORMATION
---	DFCC ROW LINE
---	EXISTING IR TOE LINE
---	DFCC TOE LINE FOR EMB HT < 6.0M
---	FLOW DIRECTION OF PROPOSED DRAIN
---	EDGE OF PROPOSED FORMATION TOP
---	EXISTING GROUND

- 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 KM/H.
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 12. TROLLEY REFUGE WILL BE PROVIDED ALONG THE ALIGNMENT AS PER CONTRACT.
 13. FOR LEGEND AND ABBREVIATION REFER RELEVANT DRAWING.

EMPLOYER :

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :

EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)

TITLE :

ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A

FROM CH. 313+400 TO CH. 314+600

DRAWING NO.	REV	SCALE
P 2 AL 0581	F	HOR : 1:2000 VER : 1:200

REVIEWS

REV	DATE	REMARKS
C	18.01.2016	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC24-TT-2016-000001, DTD. 09.01.2016 & DFC LETTER NO. ALD/WH/ENR/DCP-3281, DTD. 01.01.2016
D	10.02.2016	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC24-TT-2016-00132, DTD. 21.01.2016
E	01.07.2016	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC24-TT-2016-02076, DTD. 27.06.2016
F	17.08.2016	PROFILE REVISED AS PER DFC LETTER NO. ALD (W)/ENR/PMC/PRO-2/2017/201 DTD. 30-07-16

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.
17.08.2016	A.Das	A.Das
17.08.2016	SP	
17.08.2016	S.K. AICH	

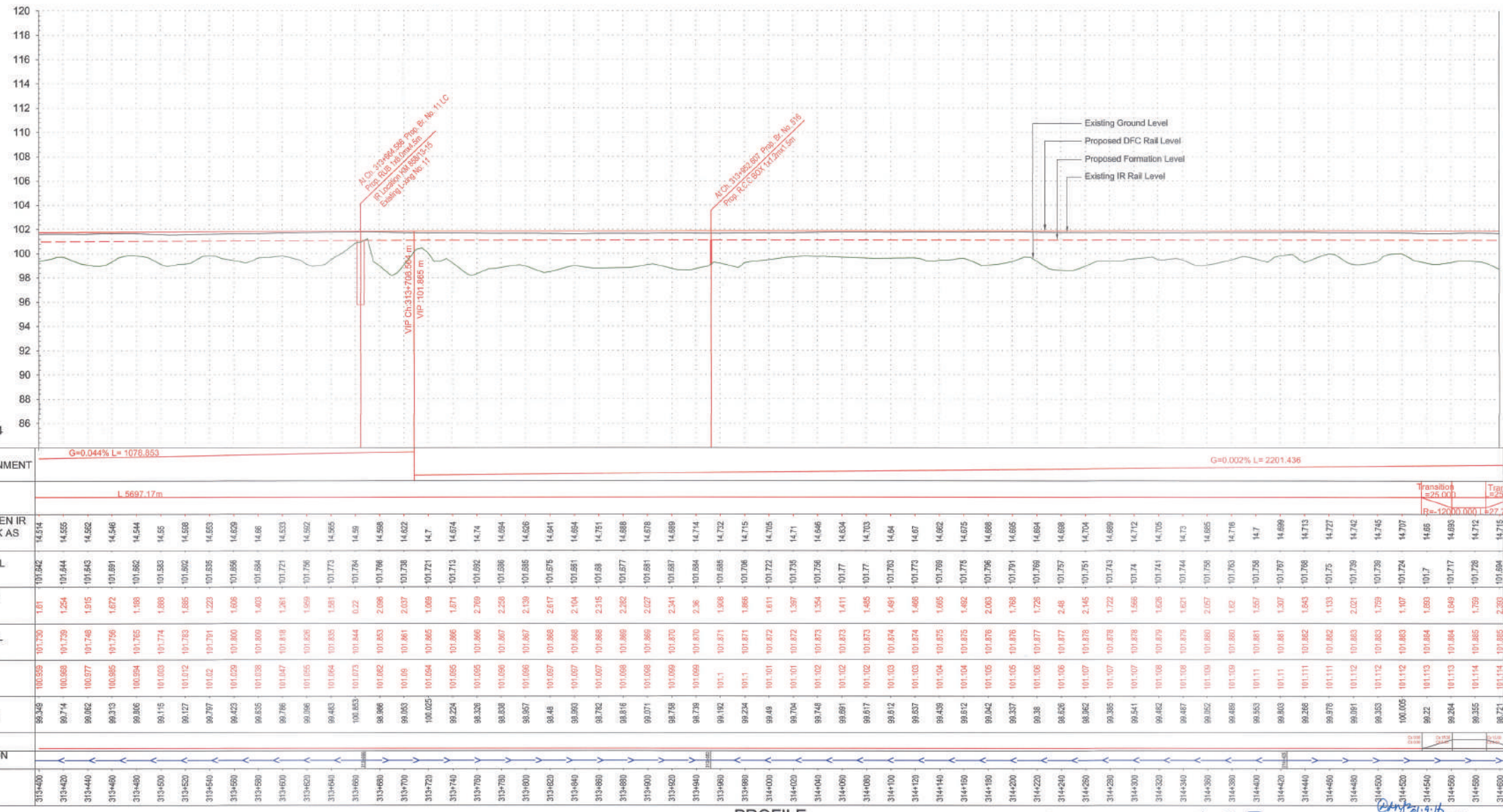
DATE	NAME	SIGN.
22/08/2016	REPAK GUPTA	Repa
22/08/2016	RAMPAL SAINI	

DATE	NAME	SIGN.
24/8/2016	KAMAL SHARMA	
24/8/2016	P. AMERIKANOS	

APPROVAL BY :

DFCC

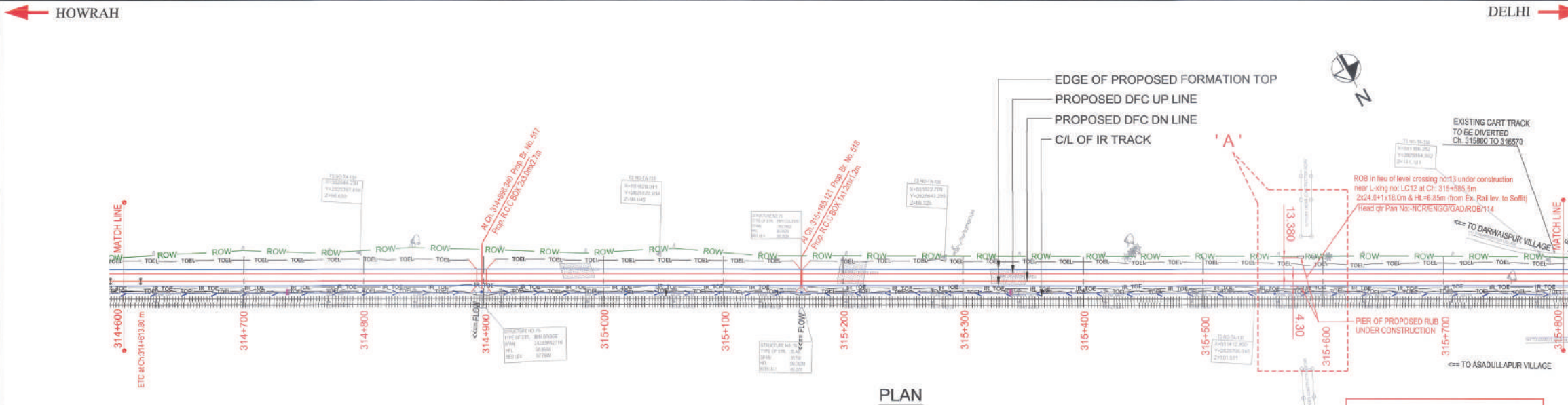
DATE	NAME	SIGN.
01.09.16	S.K. MAURYA	



PROFILE

DATUM = 84

VERTICAL ALIGNMENT	G=0.044% L=1078.853		G=0.002% L=2201.436	
HORIZONTAL ALIGNMENT	L=5697.17m			
OFFSET BETWEEN IR AND DFC TRACK AS PER DESIGN	14.514	14.555	14.562	14.564
EXISTING IR RAIL LEVEL	101.342	101.344	101.346	101.348
FILL HEIGHT(+) / CUT DEPTH (-)	1.61	1.254	1.915	1.672
PROPOSED RAIL LEVEL	101.730	101.730	101.730	101.730
PROPOSED FORMATION LEVEL	103.559	103.559	103.559	103.559
GROUND LEVEL	99.348	99.714	99.652	99.313
CANT (mm)				
FLOW DIRECTION OF DRAIN				
CHAINAGE	313+400	313+420	313+440	313+460



LEGEND :

	EXISTING IR TRACK
	PROPOSED DFCC TRACK
	PROPOSED FORMATION
	DFCC ROW LINE
	EXISTING IR TOE LINE
	DFCC TOE LINE FOR EMB HT < 6.0M
	FLOW DIRECTION OF PROPOSED DRAIN
	EDGE OF PROPOSED FORMATION TOP
	EXISTING GROUND

- NOTES :
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 5. EQUILIBRIUM SPEED HAS BEEN TAKEN 85 KM/H.
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EMPLOYER :

 DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PROJECT :
 EASTERN DEDICATED FREIGHT CORRIDOR (PACKAGE - 202)

TITLE :
 ALIGNMENT PLAN AND PROFILE OF SLICE - 202 A
 FROM CH. 314+600 TO CH. 315+800

DRAWING NO.	REV	SCALE
P 2 AL 0 5 8 2	F	HOR : 1:2000 VER : 1:200

REVIEWS

REV	DATE	REMARKS
C	18.01.2016	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC2-LTT-2016-00081, DTD. 06.01.2016 & OFC LETTER NO. ALXND/PMCS-2280, DTD. 01.02.2016
D	10.02.2016	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC2-LTT-2016-00132, DTD. 21.01.2016
E	01.07.2016	REVISION MADE AS PER PMC LETTER NO. PMCS-EDFC2-LTT-2016-00276, DTD. 27.06.2016
F	17.08.2016	PROFILE REVISED AS PER DFC LETTER NO. ALD (N)/EN/PMC/PRO-2/281/201 DTD. 30-07-16

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

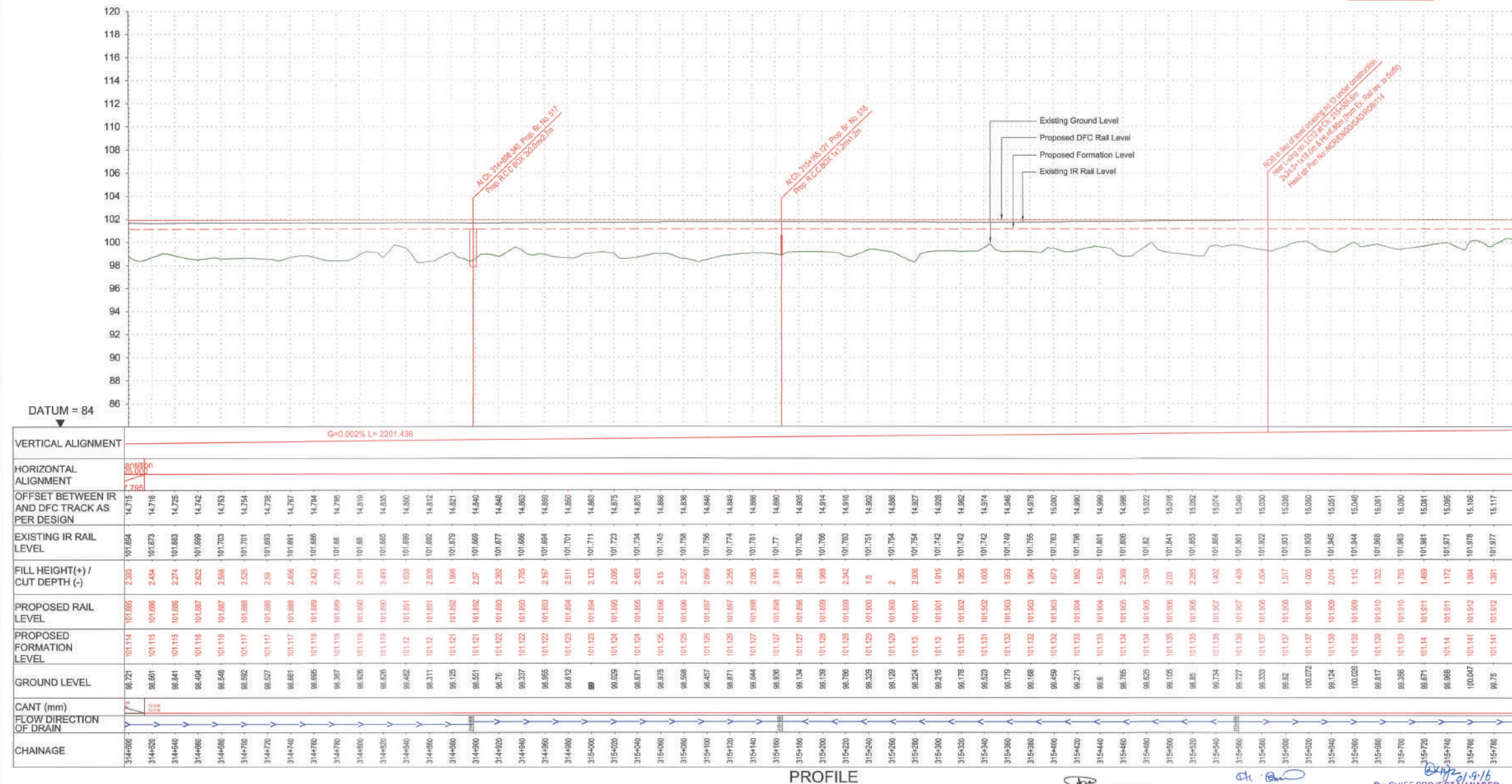
DATE	NAME	SIGN.
DRAWN 17.08.2016	A.Das	A.Das
CHKD. 17.08.2016	SP	
APPD. 17.08.2016	S.K. AICH	

DATE	NAME	SIGN.
SUBMITTED BY : 17.08.2016	GIL - SIL JV	
CHKD. 22/08/2016	REEPAK GUPTA	Reepa
APPD. 22/08/2016	RAMPAL SAINI	

DATE	NAME	SIGN.
NOC BY : 24.08.2016	SYSTRA - Mott MacDonald JV	
CHKD. 24.08.2016	KAMAL SHARMA	
NOC 24.08.2016	P. AMERIKANOS	

DATE	NAME	SIGN.
APPROVAL BY : 01-09-16	DFCC	
CHKD. 01-09-16	S.K. MAURYA	

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 Corporation of India Ltd.
 ALLAHABAD



PROFILE

Manager,
 Dedicated Freight Corridor
 Corporation of India Ltd.
 Dy. CHIEF PROJECT MANAGER
 Corporation of India Ltd.
 (A.P.S.U. Under Min. of Railways)

