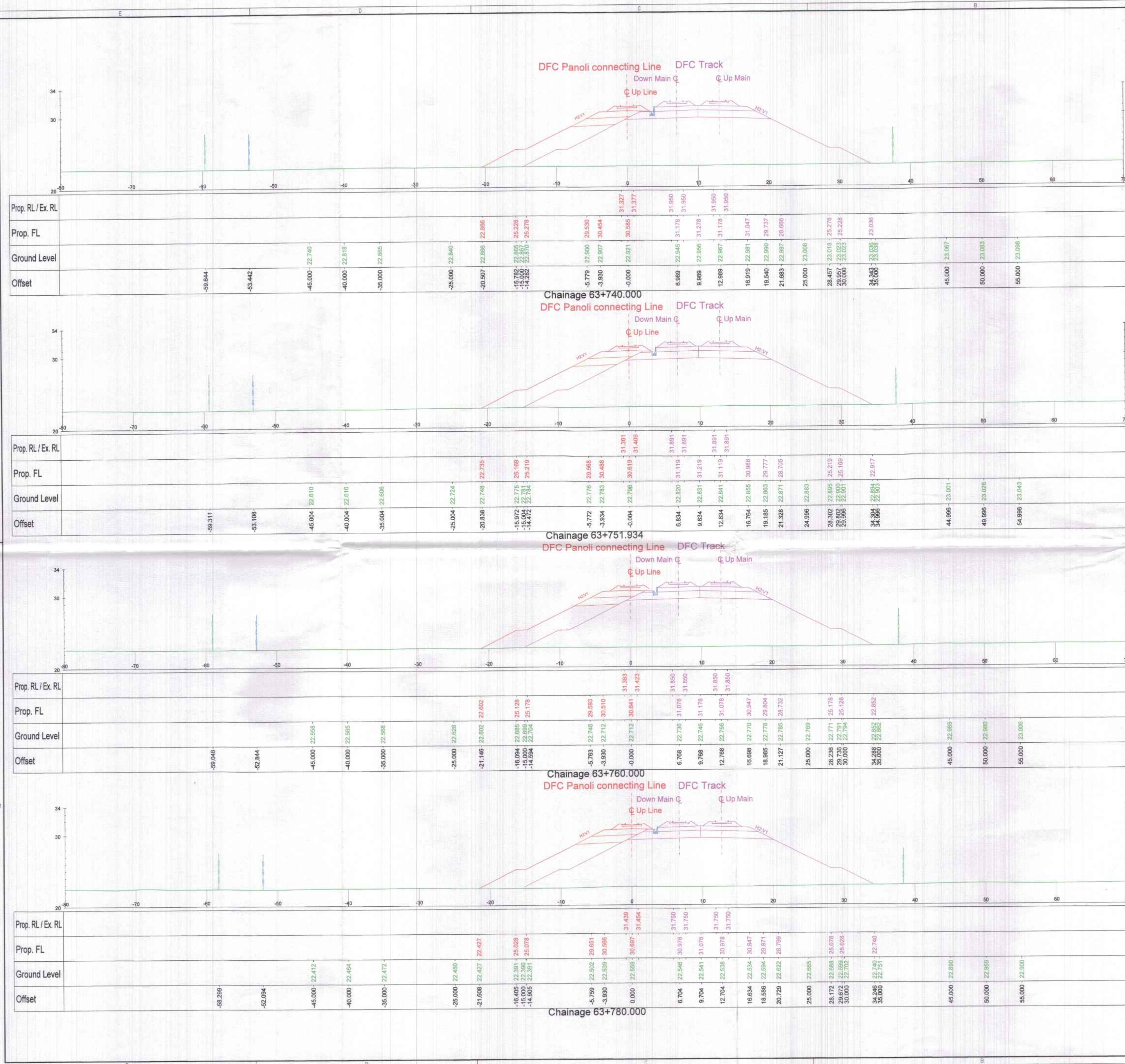




PMC-2R
ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCC - OCI - NK - NKI - RITES

Engineer's Response
NONO

Checked: P.P. [Signature]
Reviewed: [Signature]
Authorised: [Signature]
Date: 04.02.2020

(NAVEEN CHOPRA)
Alignment Engineer
PMC - 2R (OCG Consortium)
For 'The Engineer' for WDFC Phase - 2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCL - CTP-13

[Signature]
Contractor's Representative

[Signature]
N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD.
PLOT NO. 22-A
SECTION-19-C
PALM BEACH MARG
VASAH, PUNE
TEL: 40597777

[Signature]
(S.K. Pathak)

NOTES:

- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
- EXISTING WORK IS SHOWN IN BLACK.
- PROPOSED WORK IS SHOWN IN RED.
- CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E. ADJACENT TO IR TRACK).
- DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0081E TO 0078E (NONOC RECEIVED VIDE LETTER 'L' NO. L/OCGC/DFCC/CTP-13/1906/25094 (DATED 07-JUNE-2019)).
- DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. L/OCGC/DFCC/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
- TRACK FORMATION CROSS FALL - 1:30.
- FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
- FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
- FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
- THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP-13 CHANGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
- FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
- FOR DIVERSION OF ROAD/STREAM/NALLA ETC., REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
- IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
- TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
- PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 ... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)

13/GE/DD/0762 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 104.000 KM TO 126.000 KM

13/GE/DD/0763 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

13/GE/DD/0766 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP / DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING.

EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE

PROPOSED NALLA DIVERSION

INNER EDGE OF PROPOSED ROAD

INNER EDGE OF NOT IN SCOPE SERVICE ROAD

BLANKET

SUBGRADE

EXISTING GROUND

FUTURE IR TRACK

3. REVISIONS

NO.	DATE	REVISION	BY	CHECKED	APPROVED
1	04.02.2020	ISSUE FOR CONSTRUCTION	[Signature]	[Signature]	[Signature]
2	04.02.2020	REVISION AS PER PMC COMMENT NO. 1	[Signature]	[Signature]	[Signature]
3	04.02.2020	REVISION AS PER PMC COMMENT NO. 2	[Signature]	[Signature]	[Signature]

PROJECT: WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

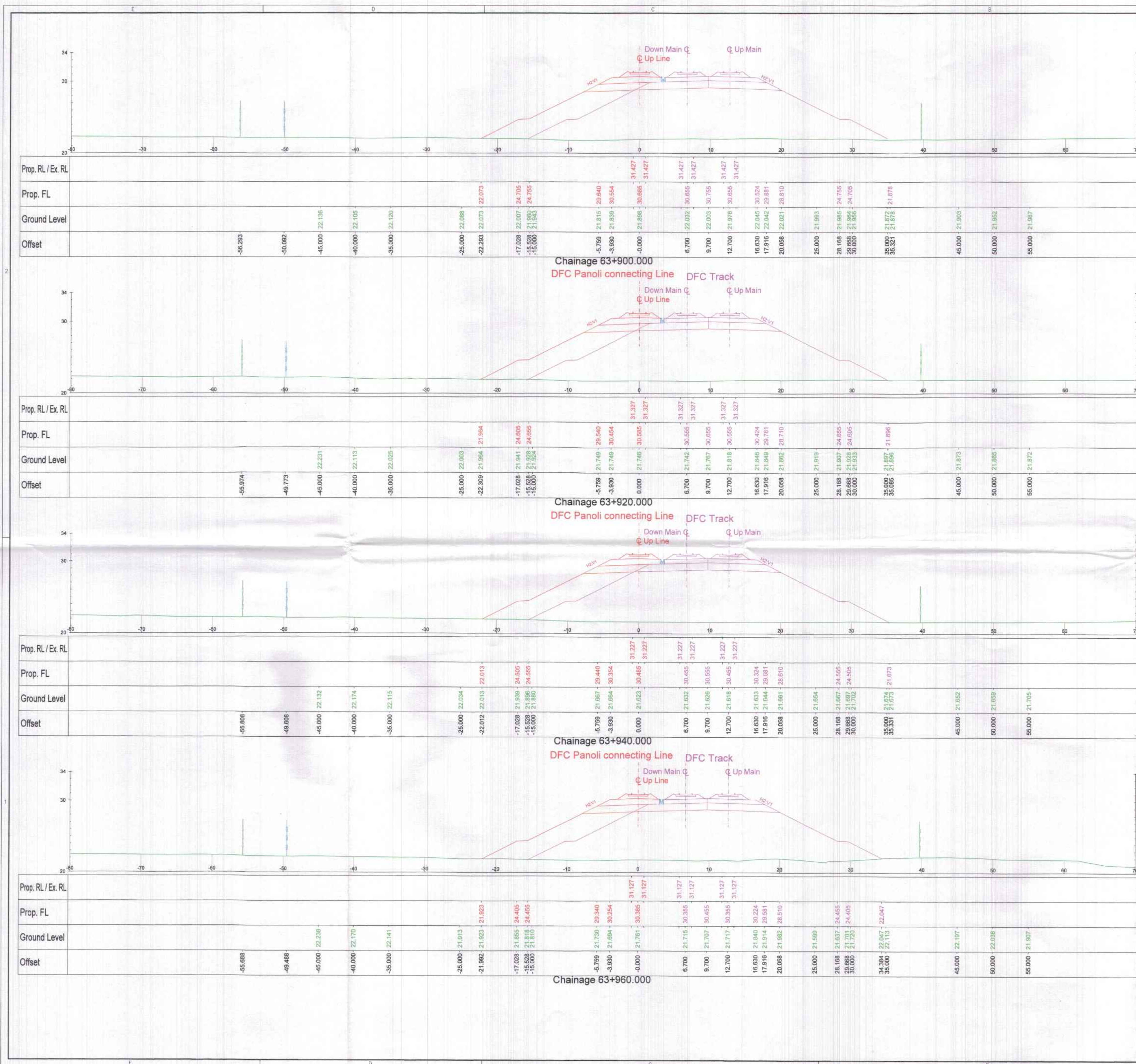
PMC: PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCC - OCI - NK - NKI - RITES

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM

DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 63+740 TO CH. 63+780

JOB NO.	3309	SIZE	A1	STATUS
NAME	EXPRESS	PROJECTION		ID: (INCEPTION)
DSGN	ACT			TD: (TECHNICAL)
CHKD	SRG			CD: (CONSTRUCTION)
APPD	SKP			BD: (AS BUILT)
DATE	08-JUL-2019	SCALE	1:250	DATE
DRG. NO.	13/AL/DG/0209-CD	REV	3	



PMC-2R OGC-OCI-NK-NKI-RITES
Substantial Work Ref. No. Date:
Engineer's Response
Checked P.P. Signature
Reviewed Signature
Authorized Signature
Date: 04.07.2019
(NAVEEN CHOPRA)
Alignment Engineer
PMC -2R (OGC Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCL - CTP-13
Contractor's Representative Date:

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD.
PLOT NO. 22-A
SECTOR-19-A
PALAM BEACH MARG,
VASHI,
TEL. 40867777
Near Mumbai Airport

NOTES:

- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
- EXISTING WORK IS SHOWN IN BLACK.
- PROPOSED WORK IS SHOWN IN RED.
- CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E. ADJACENT TO IR TRACK).
- DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0076E (NONOC RECEIVED VIDE LETTER 'L' NO. LOCCG/DFCC/CTP-13/1908/25094 (DATED 07-JUNE-2019)).
- DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - LOCCG/DFCC/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
- TRACK FORMATION CROSS FALL - 1:30.
- FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
- FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
- FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
- THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINAGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
- FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
- IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
- PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T TEAM CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 ... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)

13/GE/DD/0762 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 104.000 KM TO 126.000 KM

13/GE/DD/0763 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 126.000km TO 131.000km

13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 126.000km TO 131.000km

13/DE/DD/0766 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **

EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE

PROPOSED NALLA DIVERSION

INNER EDGE OF PROPOSED ROAD

INNER EDGE OF NOT IN SCOPE SERVICE ROAD

BLANKET

SUBGRADE

EXISTING GROUND

FUTURE IR TRACK

NO.	DATE	REVISION	DRWN	DESIGN	CHECKED	APPROVED
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SKP	SKP	SKP
2	28-AUG-19	REVISED AS PER PNC COMMENTS (NO. LOCCG/DFCC/CTP-13/1908/25094 DATED 14-08-2019)	ACT	SKP	SKP	SKP
3	28-NOV-19	REVISED AS PER PNC COMMENTS (NO. LOCCG/DFCC/CTP-13/1908/25094 DATED 14-08-2019)	ACT	SKP	SKP	SKP

PROJECT: WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION SEAL & SIGN

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC: PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OGC CONSORTIUM: OGC - OCI - NK - NKI - RITES

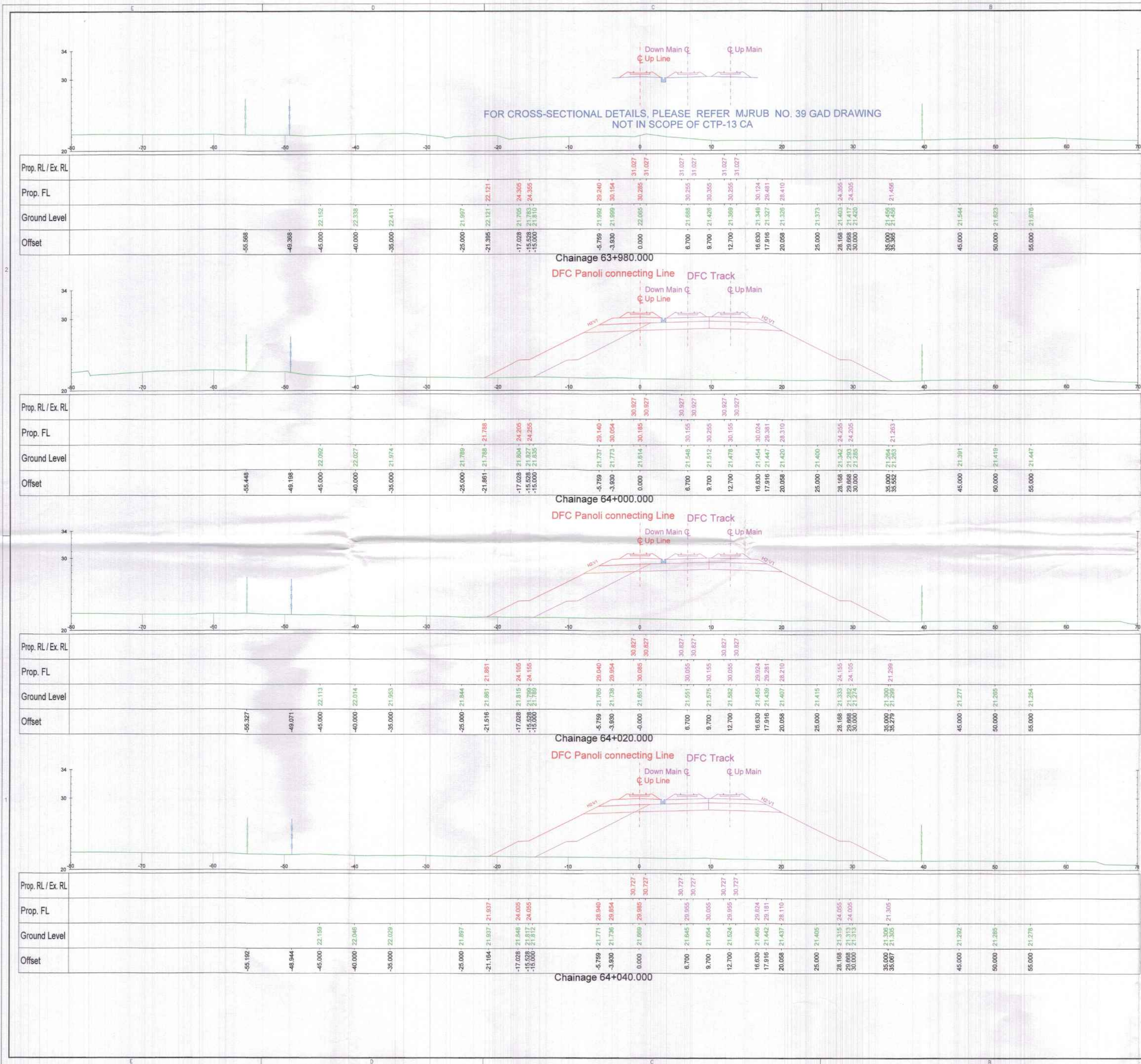
CONTRACTOR: EXPRESS FREIGHT CONSORTIUM
MITTAL & CO. LTD. IRCON TATA

DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 63+900 TO CH. 63+960

NOB NO.	8309	SIZE	A1	STATUS
NAME	SKP	PROJECTION	ACT	ID: (INCEPTION)
DRWN	ACT	PROJECTION	ACT	TD: (TECHNICAL)
DSGN	SKP	PROJECTION	ACT	CD: (CONSTRUCTION)
CHGC	SKP	PROJECTION	ACT	BD: (AS BUILT)
APPR	SKP	PROJECTION	ACT	DATE: 08-JUL-2019

DRG. NO. 13/AL/DG/0211-CD REV-3



PMO-2R
OCC-OCI-NK-
NKI-RITES
Engineer's Response
Checked P.P. [Signature]
Reviewed [Signature]
Authorized [Signature]
Date: 04.02.2010
(NAVEEN CHOPRA)
Alignment Engineer
PMO-2R (OCC Consortium)
For 'The Engineer' for WDFC Phase-2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative [Signature]
Date:

newly
N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD.
PLOT NO. 22-A
SECTOR-19-C
PALM BEACH MARG,
VASHI,
TEL. 48857777

NOTES:

- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
- EXISTING WORK IS SHOWN IN BLACK.
- PROPOSED WORK IS SHOWN IN RED.
- CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E. ADJACENT TO IR TRACK).
- DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER 1 NO. L00G00/DFCC/CTP-13/1908/25094 (DATED 07-JUNE-2019)).
- DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L00G00/DFCC/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
- TRACK FORMATION CROSS FALL - 1:30.
- FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
- FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
- FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
- THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP-13 CHANGAIE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
- FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
- FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
- IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
- PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF 8&10MM CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 ... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)

13/GE/DD/0762 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 104.000 KM TO 126.000 KM

13/GE/DD/0763 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

13/DE/DD/0766 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE DFC DETAILED CROSS-SECTION DRAWING **

EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE

PROPOSED NALLA DIVERSION

INNER EDGE OF PROPOSED ROAD

INNER EDGE OF NOT IN SCOPE SERVICE ROAD

BLANKET

SUBGRADE

EXISTING GROUND

FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	CHECKED	APPROVED
3	26-NOV-19	REVISED AS PER PMO COMMENT LNO. L00G00/DFCC/CTP-13/1908/25094 (DATED 14-OCT-2019)	ACT	SRG	SRP
2	26-AUG-19	REVISED AS PER PMO COMMENT LNO. L00G00/DFCC/CTP-13/1702/2913 (DATED 26-AUG-2019)	ACT	SRG	SRP
1	08-JUL-19	ISSUE FOR CONSTRUCTION	ACT	SRG	SRP

PROJECT: WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

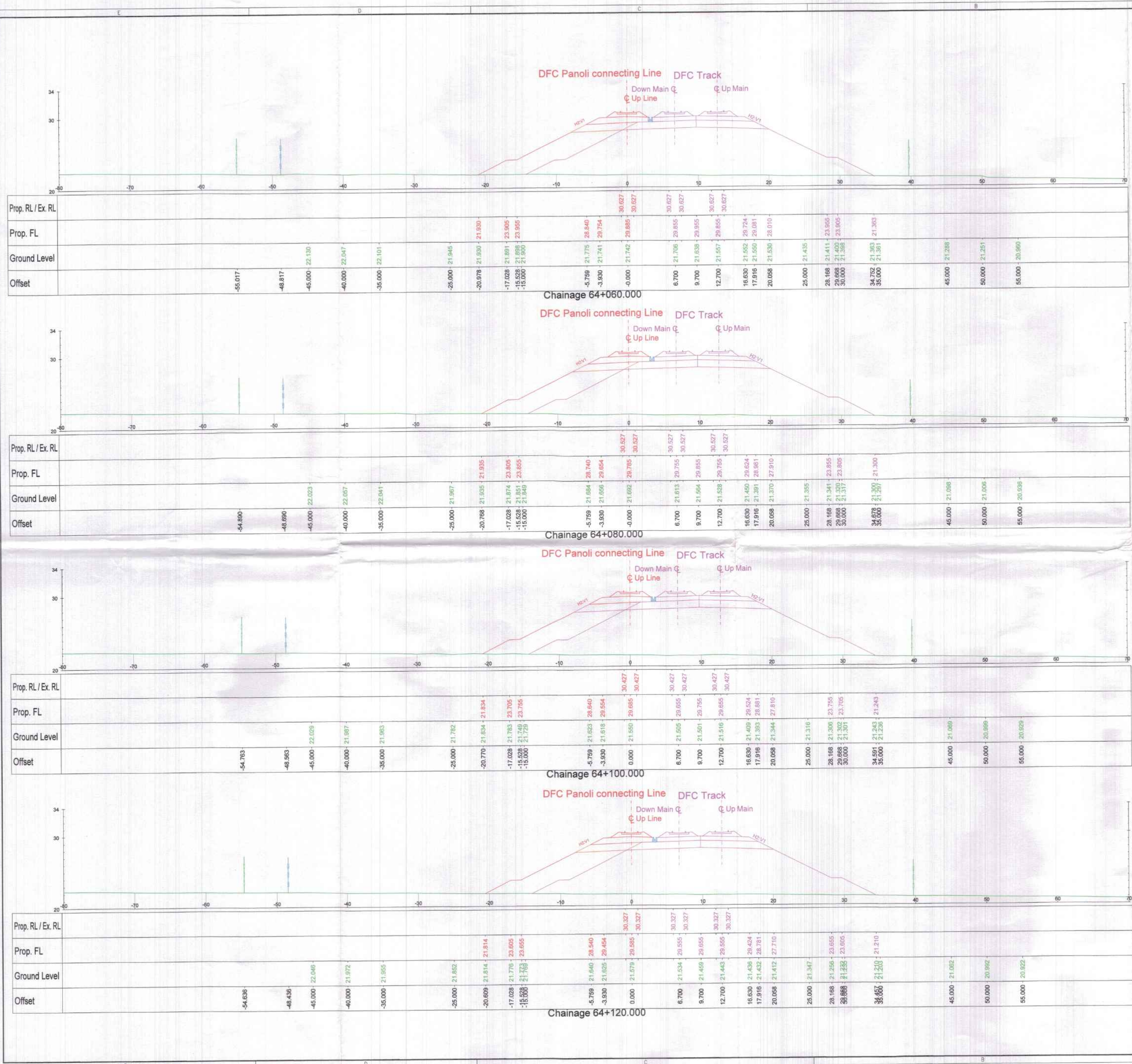
PMC
PMO-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCC - OCI - NK - NKI - RITES

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM

DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS
FROM CH. 63+980 TO CH. 64+040

JOB NO.	8309	SIZE	A1	STATUS
NAME	SRG	PROJECTION	1:250	ID: (INCEPTION)
DDSN	ACT	SRG	1:250	TD: (TECHNICAL)
CHKD	SRP	SRG	1:250	CD: (CONSTRUCTION)
APPD	SRP	SRG	1:250	BD: (AS BUILT)
DRG. NO.	13/AL/DG/0212-CD	REV-3		DATE: 08-JUL-2019



NOTES:

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS SHOWN IN BLACK.
3. EXISTING WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE TO PER DFCD DOWN MAIN TRACK (IE ADJUNCT TO IR TRACK).
5. THE CROSS SECTIONS HAVE BEEN BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L" NO. 00000000/DFCD/CTP-13/1068/25094 (DATED 07-JUNE-1997).
6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS FOR ROADWAY CROSS SECTION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.66M VIDE ENGINEER LETTER NO. 00000000/DFCD/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7. TRACK FORMATION CROSS FALL - 1-30.
8. FOR THE LOCATION OF STRUCTURES REFER TO THE EXISTING GENERAL REFERENCE DRAWINGS.
9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10. FOR GROUND IMPROVEMENT, REFER TO THE EXISTING DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
11. THE DETAILS OF FORMATION LEVELS, OFFSET AND ELEVATION BETWEEN THE TRACKS, C&D DOWN LINE AND NOT IN SCHEME OF CTP13 CHAINAGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12. THE EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13. THE DIVERSION OF ROAD-STRATEGICAL ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14. THE GREATER OF CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT TO THE S&B DIVISION, FORMED AT SITE AS PER ACTUAL GROUND LEVELS.
15. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF ALL UTILITIES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/STDG/11100 DETAILS OF ROC RETURN
WALL FOR EMBANKMENT
(ON ROW SIDE)

13/GE/DD/0762 GROUND IMPROVEMENT FOR
EXPANSIVE SOIL FOR
EMBANKMENT SRETCH FROM
CH 104.000 KM TO 126.000 KM

13/GE/DD/0763 GROUND IMPROVEMENT FOR
EXPANSIVE SOIL FOR
EMBANKMENT SRETCH FROM
CH. 126.000km TO 131.000km

13/GE/DD/0765 GROUND IMPROVEMENT FOR
EXPANSIVE SOIL FOR
EMBANKMENT SRETCH FROM

13/DE/DD/0766 GROUND IMPROVEMENT FOR
EXPANSIVE SOIL FOR
EMBANKMENT SRETCH FROM
CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **	
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE	EXIST - ROW
PROPOSED NALLA DIVERSION INNER EDGE OF PROPOSED RCA	PROPOSED - NALLA
INNER EDGE OF NOT IN SCOPE SERVICE ROAD BLANKET	NOT IN SCOPE - SR
SUBGRADE	
EXISTING GROUND	
FUTURE IR TRACK	

3	25-NOV-18	REVISED AS PER PAM COMMENTS L.N.O. L00050FC02C01C7F-1578192892 (DATED 14-NOV-2018)	<i>Active</i>	<i>SRG</i>	<i>SKP</i>	<i>SKP</i>
2	26-AUG-18	REVISED AS PER PAM COMMENTS L.N.O. L00050FC02C01C7F-1578192731 (DATED 15-AUG-2018)	<i>Active</i>	<i>SRG</i>	<i>SKP</i>	<i>SKP</i>
1	06-JUL-19	ISSUE FOR CONSTRUCTION	<i>Active</i>	<i>SRG</i>	<i>SKP</i>	<i>SKP</i>
NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED

PROJECT WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN
PANOLI (IR) TO NEW SANJALI (DFC)

EMPLOYER  DEDICATED FREIGHT
CORRIDOR CORPORATION OF
INDIA LTD.

PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG - OCI - NK - NKI - RITES

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM

DESIGNER

TITLE
DETAILED CROSS SECTIONS
FROM CH. 64+060 TO CH. 64+120

JOB NO: 8309			SIZE A1		STATUS	
	NAME	SIGN	PROJECTION		☐ ID: (INCEPTION)	
					☐ TD: (TECHNICAL)	
DRWN	ACT		SCALE		☒ CD: (CONSTRUCTION)	
DSGN	SRG				☒ BD: (AS BUILT)	
CHKD	SKP		1:250		DATE: 08-JUL-2019	
APPC	SKP				REV-3	
ORG. NO. 13/A/DG/0213-CD						

PNC-2R OGG CONSENT		OGG-OCI-NK- NKI-RITES	
Submittal No: []		Date: []	
Litc. Ref. No: []		[]	
Engineer's Response			
NONO			
	Name		Signature
Checked	P. P		[Signature]
Reviewed	[]		[]
Authorised Signatory	[]		[Signature]
Date:		04.02.2020	

(NAVEEN CHOPRA)

Alignment Engineer
PMC -2R (OCG Consortium)
For 'The Engineer' for WDFC Phase -2

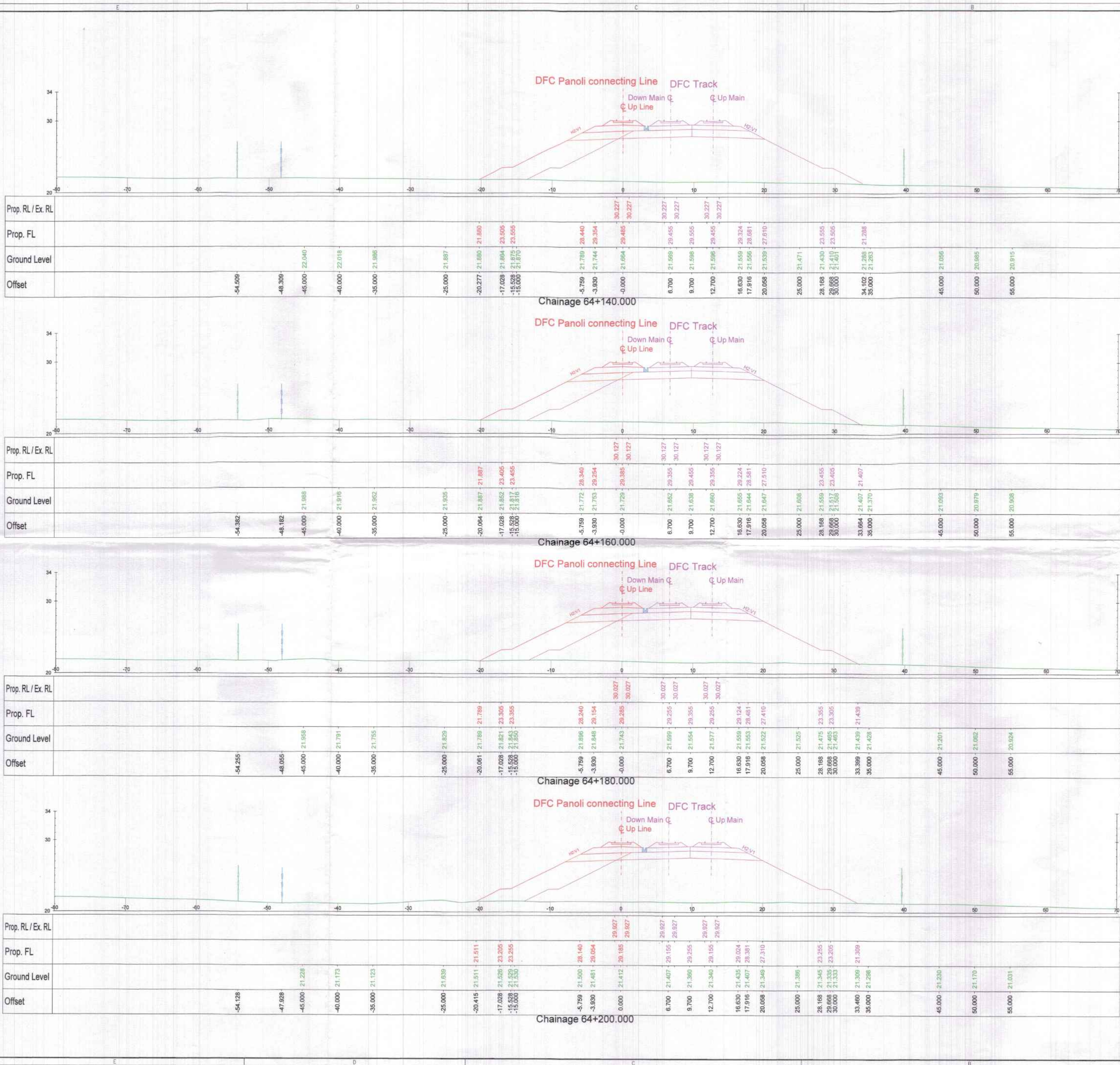
GOOD FOR CONSTRUCTION	
EXPRESS FREIGHT CONSORTIUM	
WDFCCIL - CTP-13	
Contractor's Representative	Date: _____

N. Ramakrishna Raju
N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD.
PLOT NO. 22-A
SECTOR-19-C,
PALM BEACH MARG.,
VASHI,
TEL. : 40867777
Navi Mumbai 400705.

72/

(S.K. Path



PMC-2R
Submittal No:
Utr. Ref. No:
Engineer's Response
Checked:
Reviewed:
Authorized Signatory:
Date: 04.03.2020
(NAVEEN CHOPRA)
Alignment Engineer
PMC-2R (OCG Consortium)
For 'The Engineer' for WDFC Phase-2

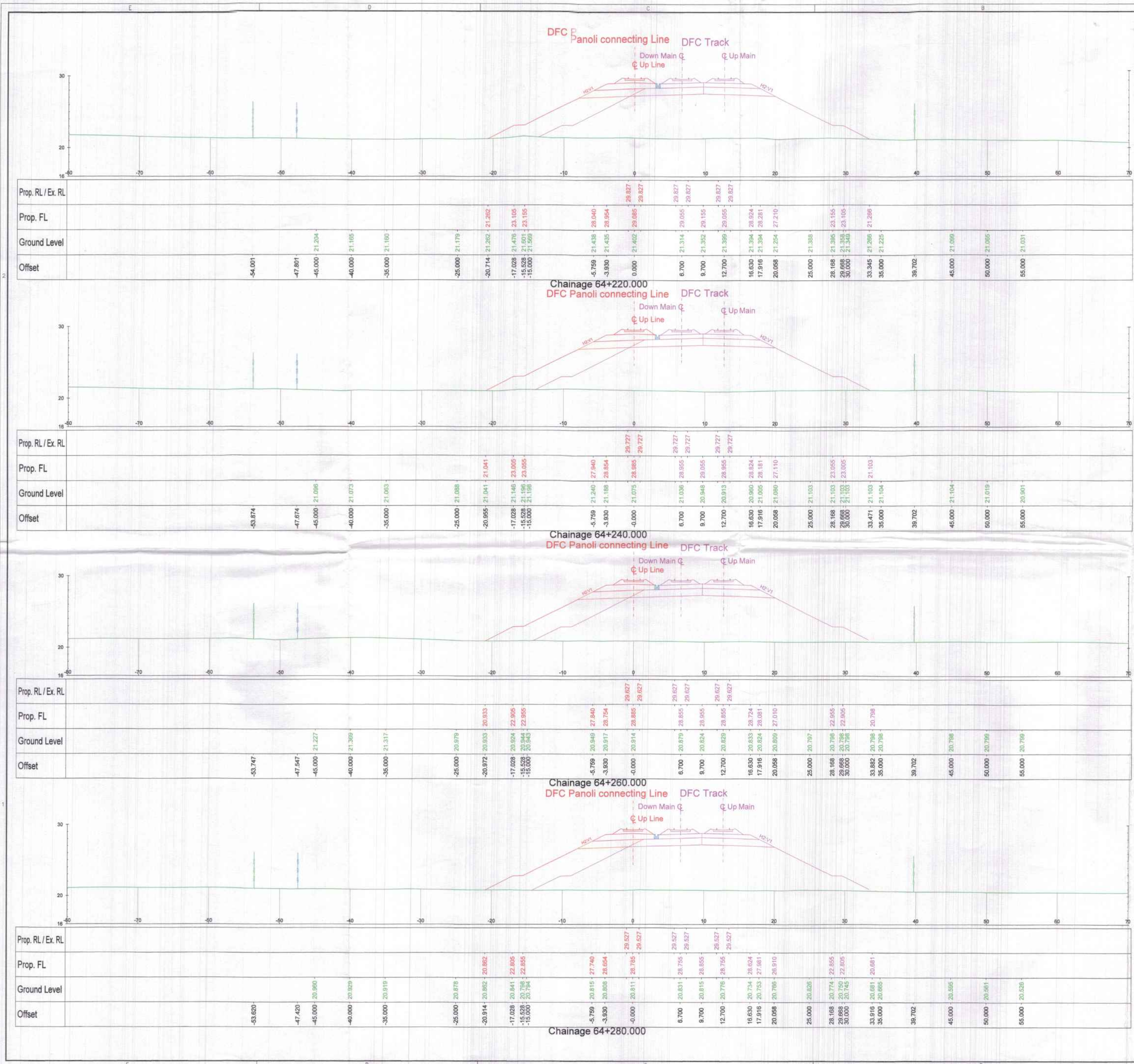
GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CORRIDOR
WDFCCIL - CTP-13
Contractor's Representative:
Date:

N. S. MAHAJAN
Chief Design Engineer



C.S.K. Patil

NOTES:	
1.	ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2.	EXISTING WORK IS SHOWN IN BLACK.
3.	PROPOSED WORK IS SHOWN IN RED.
4.	CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E. ADJACENT TO IR TRACK).
5.	DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13A/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER 'L' NO. L/OCG/DFCC/CTP-13/1906/25094 (DATED 07-JUNE-2019)).
6.	DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH WHICH IS CHANGED FROM 13.5M TO 13.88M VIDE ENGINEER LETTER NO. L/OCG/DFCC/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
7.	TRACK FORMATION CROSS FALL - 1:30.
8.	FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9.	FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
10.	FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
11.	THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINAGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
12.	FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
13.	FOR DIVERSION OF ROAD/STREAM/NALLA ETC., REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
14.	IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
15.	PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T&M CABLES AS PER CONTRACT REQUIREMENT.
REFERENCE TO DRAWINGS: (LATEST REVISION)	
13/ST/DG/11100	DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762	GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 104.000 KM TO 126.000 KM
13/GE/DD/0763	GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765	GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
13/DE/DD/0766	GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km
LEGENDS & ABBREVIATION:	
THE CROSS-SECTION OF DFC UP/DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE SFC DETAILED CROSS-SECTION DRAWING **	
EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE	EXISTING ROW
PROPOSED NALLA DIVERSION	PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED ROAD	INNER EDGE OF PROPOSED ROAD
INNER EDGE OF NOT IN SCOPE SERVICE ROAD	INNER EDGE OF NOT IN SCOPE SERVICE ROAD
BLANKET	BLANKET
SUBGRADE	SUBGRADE
EXISTING GROUND	EXISTING GROUND
FUTURE IR TRACK	FUTURE IR TRACK
REVISIONS:	
NO.	DATE
1	08-JUL-19
2	26-AUG-19
3	26-AUG-19
PROJECT:	
WESTERN DEDICATED FREIGHT CORRIDOR	
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13	
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)	
EMPLOYER:	
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.	
PMC:	
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM	
OCG - OCI - NK - NKI - RITES	
CONTRACTOR:	
EXPRESS FREIGHT CONSORTIUM	
DESIGNER:	
STUP Consultants Pvt. Ltd.	
TITLE:	
DETAILED CROSS SECTIONS FROM CH. 64+140 TO CH. 64+200	
JOB NO: 8309	
STATUS:	
ID: (INCEPTION)	
TO: (TECHNICAL)	
CD: (CONSTRUCTION)	
BD: (AS-BUILT)	
SCALE:	
1:250	
DATE:	
08-JUL-2019	
REV-3	



PMC-2R OGC-OCI-NK-NKI-RITES

Engineer's Response

Checked P.P. [Signature]

Reviewed [Signature]

Authorized Signatory [Signature]

Date: 07.02.2020

(NAVEEN CHOPRA)

Alignment Engineer
For 'The Engineer' for WDFC Phase - 2

- NOTES:
- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
 - EXISTING WORK IS SHOWN IN BLACK.
 - PROPOSED WORK IS SHOWN IN RED.
 - CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E. ADJACENT TO IR TRACK).
 - DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER 'L' NO. L/OGG/DFCC/CTP/13/1908/25094 (DATED 07-JUNE-2019)).
 - DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH WHICH IS CHANGED FROM 13.9M TO 13.86M VIDE ENGINEER LETTER NO. L/OGG/DFCC/CTP/13/1702/2913 (DATED 22-FEBRUARY-2017).
 - TRACK FORMATION CROSS FALL - 1:30.
 - FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
 - FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINAGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 - FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 - FOR DIVERSION OF ROAD/STREAM/NALLA ETC., REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
 - IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
 - TOE LINES SHALL BE RECONFORMED AT SITE AS PER ACTUAL GROUND LEVELS.
 - PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/E&M CABLES AS PER CONTRACT REQUIREMENT.

- REFERENCE TO DRAWINGS: (LATEST REVISION)
- 13/ST/DG/11100 ... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
- 13/GE/DD/0762 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 104.000 KM TO 128.000 KM
- 13/GE/DD/0763 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 128.000km TO 131.000km
- 13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 128.000km TO 131.000km
- 13/DE/DD/0766 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 128.000km TO 131.000km

- LEGENDS & ABBREVIATION:
- THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING.
- EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE
- PROPOSED NALLA DIVERSION
- INNER EDGE OF PROPOSED ROAD
- INNER EDGE OF NOT IN SCOPE SERVICE ROAD
- BLANKET
- SUBGRADE
- EXISTING GROUND
- FUTURE IR TRACK

GOOD FOR CONSTRUCTION

EXPRESS FREIGHT CONSORTIUM

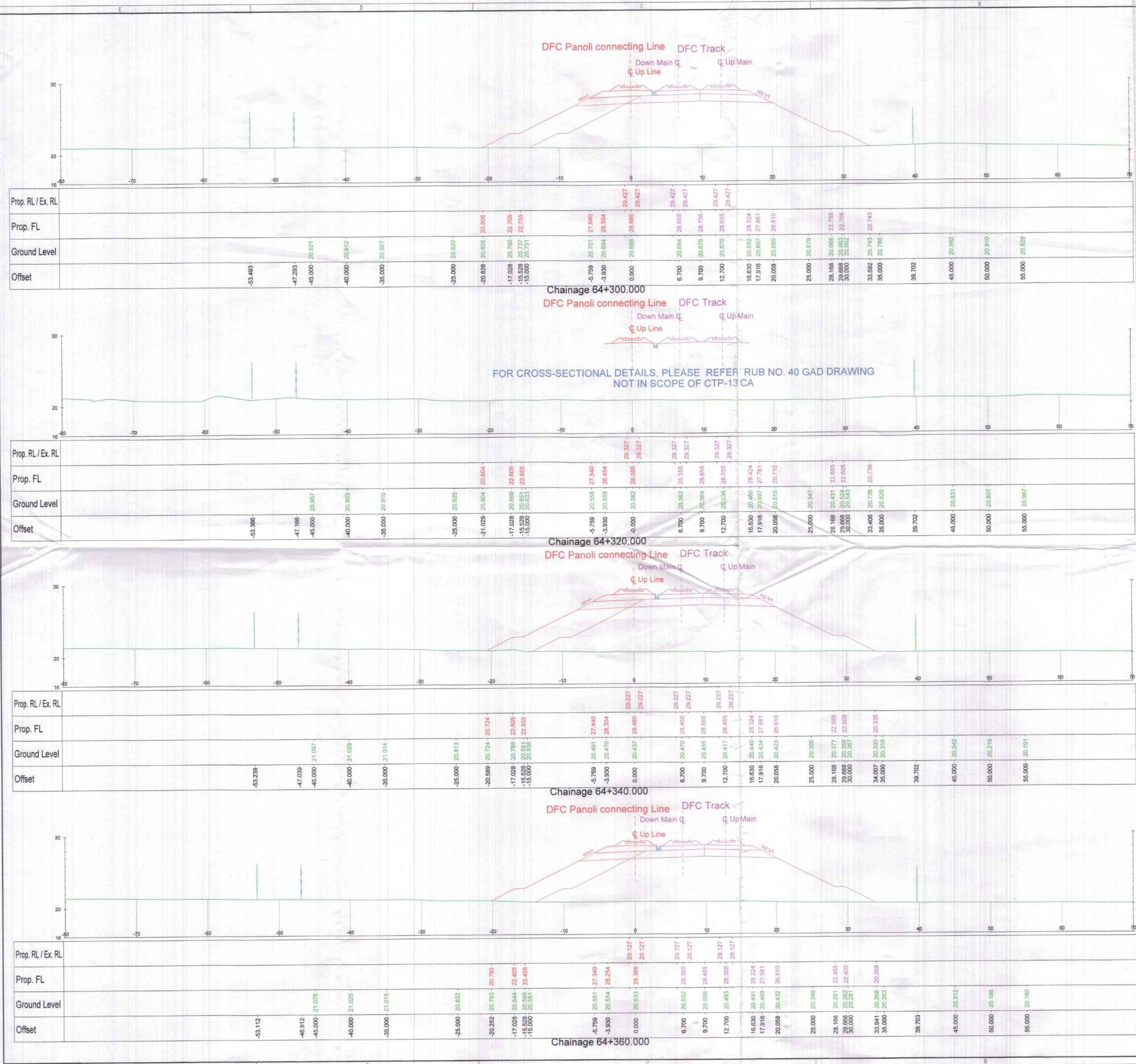
WDFCIL - CTP-13

Contractor's Representative [Signature]

N. RAMAKRISHNA RAJU
Chief Design Engineer



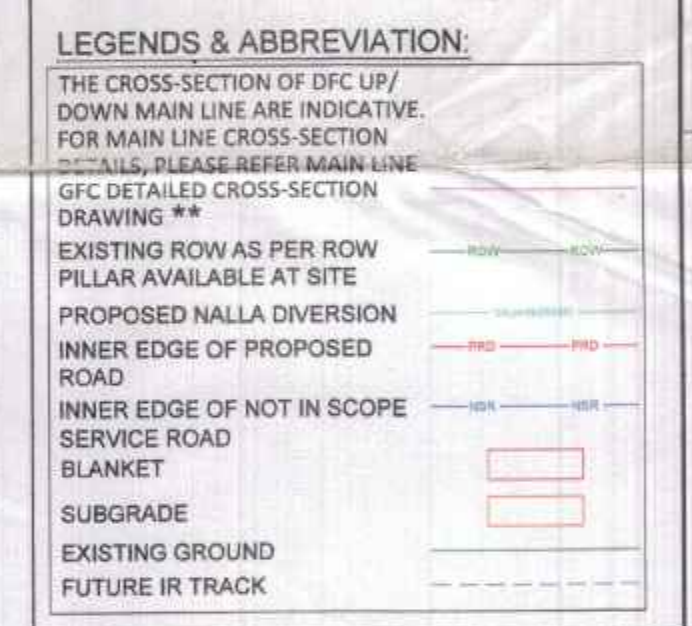
3	30-AUG-19	REVISED AS PER RMC COMMENTS NO LOGSCOP/CONTRACT/13/10100000 (DATED 14-OCT-2018) REVISED AS PER RMC COMMENTS NO LOGSCOP/CONTRACT/13/10100000 (DATED 14-OCT-2018)	Asstt. ACT	SRG	3/4 SKP	3/4 SKP	3/4 SKP	3/4 SKP	3/4 SKP
1	30-AUG-19	ISSUE FOR CONSTRUCTION	Asstt. ACT	SRG	3/4 SKP	3/4 SKP	3/4 SKP	3/4 SKP	3/4 SKP
NO.	DATE	REVISION	EXAMIN	DESIGNED	CHECKED	APPROVED			
PROJECT									
WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANALI (DFC)									
ORGANIZATION									
SEAL & SIGN									
EMPLOYER									
 DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.									
PMC									
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM OGC - OCI - NK - NKI - RITES									
CONTRACTOR									
EXPRESS FREIGHT CONSORTIUM									
 									
DESIGNER									
 STUP Consultants Pvt. Ltd.									
TITLE									
DETAILED CROSS SECTIONS FROM CH. 64+220 TO CH. 64+280									
JOB NO: 8309									
STATUS									
NAME		SIGN		ID: (INCEPTION)					
DRWN		Asstt.		ID: (TECHNICAL)					
DSGN		SRG		CD: (CONSTRUCTION)					
CHKD		3/4		BD: (AS BUILT)					
APPD		SKP		DATE: 08-JUL-2019					
PRG. NO.		13/AL/DG/0215-CD		REV-3					



PMC-2R
OCC-OCI-NK-
NKI-RITES
Date: 04.02.2010
Engineer's Response
NONO
Check: PP
Reviewed: hq
Authorised Signatory: hq
Date: 04.02.2010
(NAVEEN CHOPRA)
Alignment Engineer
PMC-2R (OCC Consortium)
For 'The Engineer' for WDFC Phase-2

- NOTES:
1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
 2. EXISTING WORK IS SHOWN IN BLACK.
 3. PROPOSED WORK IS SHOWN IN RED.
 4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (I.E. ADJACENT TO IR TRACK).
 5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0081E TO 0078E (NONOC RECEIVED VIDE LETTER 'L' NO. LOCCG/DFCC/CTP-13/1908/25094 (DATED 07-JUNE-2010)).
 6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.8M VIDE ENGINEER LETTER NO. LOCCG/DFCC/CTP-13/1702/2913 (DATED 22-FEBRUARY-2011).
 7. TRACK FORMATION CROSS FALL - 1:30.
 8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
 9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINAGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC., REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
 14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
 15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
 16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T&M CABLES AS PER CONTRACT REQUIREMENT.

- REFERENCE TO DRAWINGS: (LATEST REVISION)
- 13/ST/DG/11100 ... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
 - 13/GE/DD/0782 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 104.000 KM TO 126.000 KM
 - 13/GE/DD/0783 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 126.000km TO 131.000km
 - 13/GE/DD/0785 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 126.000km TO 131.000km
 - 13/GE/DD/0786 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 126.000km TO 131.000km



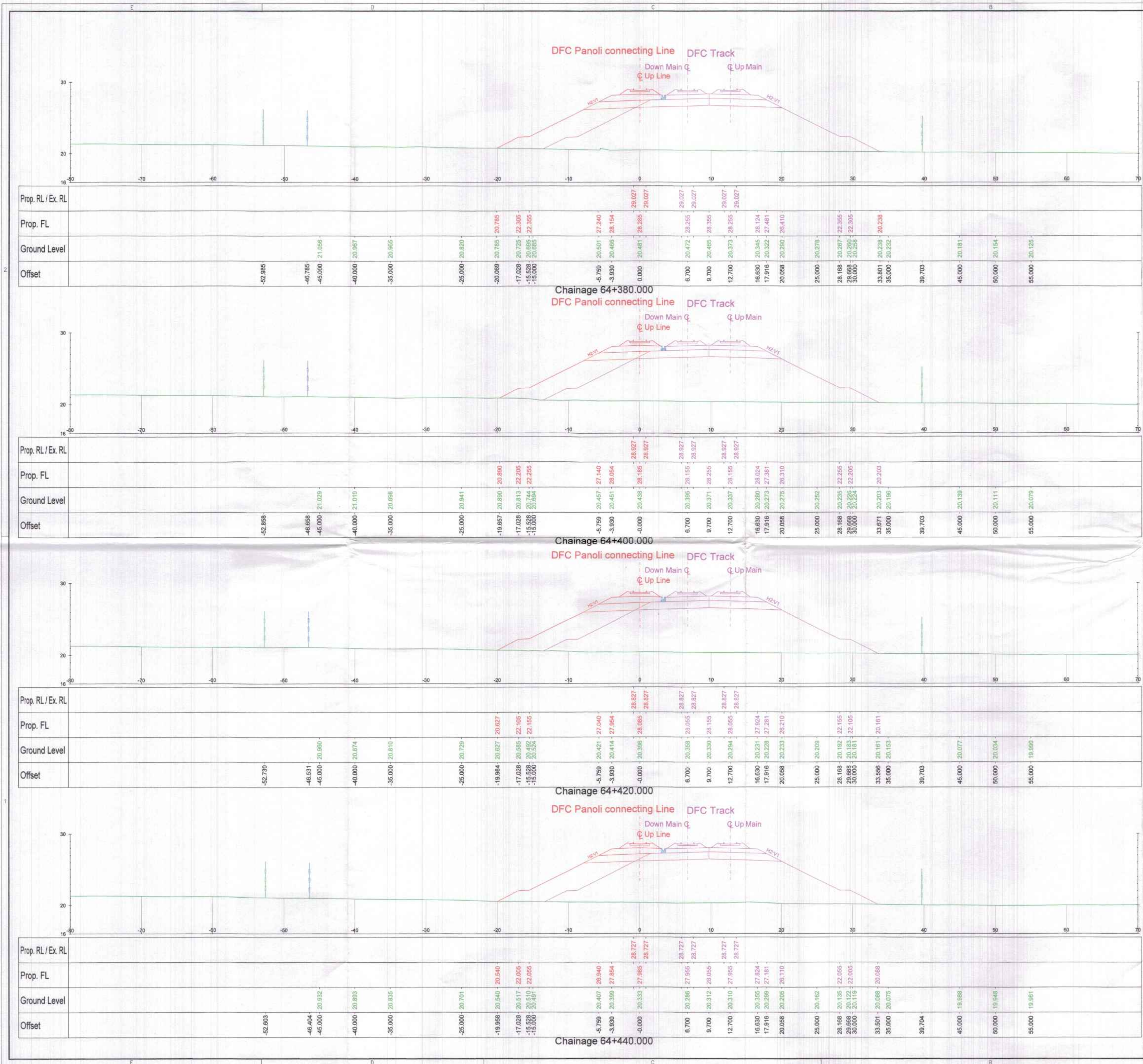
NO.	DATE	REVISION	DOWN	DESIGN	CHECKED	APPROVED
3	28-AUG-19	REVISED AS PER PMC COMMENTS NO. LOCCG/DFCC/CTP-13/1908/25094 (DATED 07-JUNE-2010)	✓	✓	✓	✓
2	28-AUG-19	REVISED AS PER PMC COMMENTS NO. LOCCG/DFCC/CTP-13/1908/25094 (DATED 07-JUNE-2010)	✓	✓	✓	✓
1	28-JUL-19	ISSUE FOR CONSTRUCTION	✓	✓	✓	✓

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCIL - CTP-13
Contractor's Representative: [Signature]
Date: [Blank]

M. MAKRUSHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD.
PLOT NO. 22-A
SECTOR-19-A
PALM BEACH MARG.,
VASHI,
TEL. - 4087777
New Mumbai 400 022

PROJECT			ORGANIZATION		SEAL & SIGN	
WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)			EMPLOYER		[Signature]	
			PMC		[Signature]	
			CONTRACTOR		[Signature]	
			DESIGNER		[Signature]	
			TITLE		[Signature]	
			JOB NO: 8309		[Signature]	
			NAME		[Signature]	
			SIGN		[Signature]	
			PROJECTION		[Signature]	
			ID: (INCEPTION)		[Signature]	
			ID: (TECHNICAL)		[Signature]	
			CD: (CONSTRUCTION)		[Signature]	
			BD: (AS BUILT)		[Signature]	
			DATE: 08-JUL-2019		[Signature]	
			REV-3		[Signature]	



PMC-2R OCG-OCI-NK-NKI-RITES
Subscribed for the Work
Engineer's Response
NOVO
Checked P.P. [Signature]
Reviewed [Signature]
Authorized Signatory [Signature]
Date: 04.02.2020
(NAVEEN CHOPRA)
Alignment Engineer
PMC-2R (OCG Consortium)
For 'The Engineer' for WDFC Phase-2

- NOTES:
1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
 2. EXISTING WORK IS SHOWN IN BLACK.
 3. PROPOSED WORK IS SHOWN IN RED.
 4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (IE ADJACENT TO IR TRACK).
 5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER 'L' NO. L0000G/DFCC/CTP-13/1908/25094 (DATED 07-JUNE-2019)).
 6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. L0000G/DFCC/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
 7. TRACK FORMATION CROSS FALL - 1:30.
 8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
 9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINAGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
 14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
 15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
 16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF SATEM CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/1100 ... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)

13/GE/DD/0762 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 104.000 KM TO 126.000 KM

13/GE/DD/0763 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

13/GE/DD/0766 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **

EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE

PROPOSED NALLA DIVERSION

INNER EDGE OF PROPOSED ROAD

INNER EDGE OF NOT IN SCOPE SERVICE ROAD

BLANKET

SUBGRADE

EXISTING GROUND

FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	28-NOV-18	REVISION AS PER PMC COMMENTS, NO. L0000G/DFCC/CTP-13/1908/25094 (DATED 14-OCT-2018)	ACT	SRG	SRG	SRG
2	28-AUG-18	REVISION AS PER PMC COMMENTS, NO. L0000G/DFCC/CTP-13/1908/25094 (DATED 28-JUL-18)	ACT	SRG	SRG	SRG
1	08-JUL-18	ISSUE FOR CONSTRUCTION	ACT	SRG	SRG	SRG

PROJECT: WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

EMPLOYER	ORGANIZATION	SEAL & SIGN
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.		
PMC	PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM OCG - OCI - NK - NKI - RITES	
CONTRACTOR	EXPRESS FREIGHT CONSORTIUM	
DESIGNER	STUP Consultants Pvt. Ltd.	

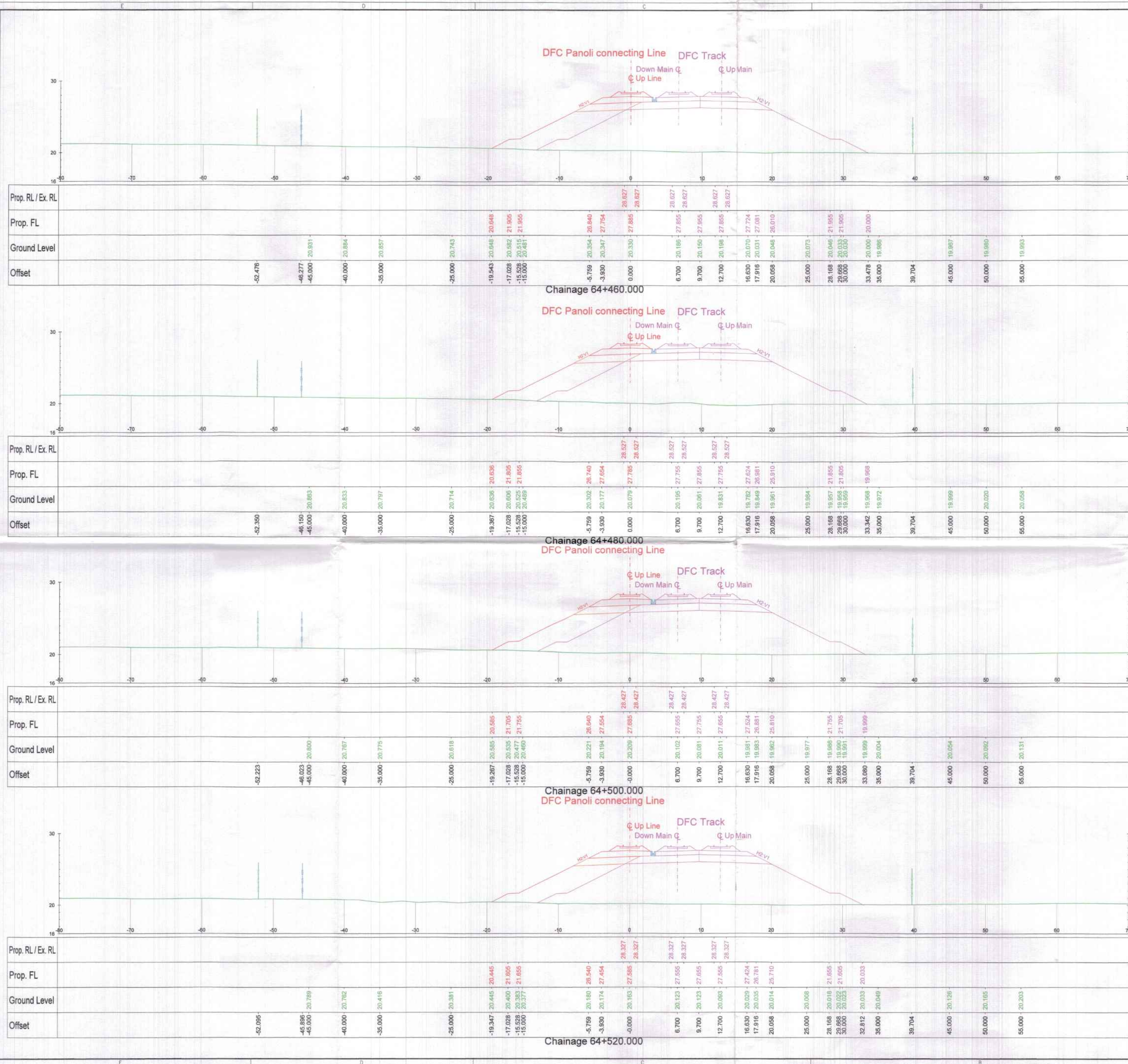
JOB NO.	8309	SIZE A1	STATUS
NAME			ID: (INCEPTION)
PROJECTION			TD: (TECHNICAL)
DRAWN	ACT		CD: (CONSTRUCTION)
DSGN	SRG		BD: (AS BUILT)
CHKD	SRG		
APPD	SRG		
SCALE	1:250		
DATE	08-JUL-2019		
REV	3		

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCL - CTP-13
Contractor's Representative [Signature]
Date: [Blank]

N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD.
PLOT NO. 22-A
SECTOR-18-B2
PALM BEACH MARG.
VASHI,
TEL. 48447777
New Mumbai 400705

(S.K. Pathak)



PMC-2R
OCC-OCI-NK-
NKI-RITES
Engineer's Response
Name: Naveen Chopra
Signature: [Signature]
Date: 04.02.2020
Alignment Engineer
PMC-2R (OCC Consortium)
For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFCCL - CTP-13
Contractor's Representative: [Signature] Date: 04.02.2020

Naveen Chopra
N. RAMAKRISHNA RAJU
Chief Design Engineer

STUP CONSULTANTS PVT. LTD.
PLOT NO. 22-A
SECTOR-19-C
PALM BEACH MARG,
VASHI,
TEL. 40877777
[Signature]
(S.K. Pathak)

NOTES:

- ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
- EXISTING WORK IS SHOWN IN BLACK.
- PROPOSED WORK IS SHOWN IN RED.
- CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (IE ADJACENT TO IR TRACK).
- DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/0061E TO 0078E (NONOC RECEIVED VIDE LETTER 'L' NO. L/OCCG/DFCC/CTP-13/1906/25094 (DATED 07-JUNE-2019)).
- DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.86M VIDE ENGINEER LETTER NO. - L/OCCG/DFCC/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
- TRACK FORMATION CROSS FALL - 1:30.
- FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
- FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
- FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
- THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINAGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
- FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
- FOR DIVERSION OF ROAD/STREAM/NALLA ETC, REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
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- TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
- PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 ... DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)

13/GE/DD/0762 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 104.000 KM TO 126.000 KM

13/GE/DD/0763 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

13/GE/DD/0765 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

13/DE/DD/0766 ... GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE FOR MAIN LINE CROSS-SECTION DETAILS. PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **

EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE

PROPOSED NALLA DIVERSION

INNER EDGE OF PROPOSED ROAD

INNER EDGE OF NOT IN SCOPE SERVICE ROAD

BLANKET

SUBGRADE

EXISTING GROUND

FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	26-NOV-18	REVIEWED AS PER PMC COMMENTS NO. 13/AL/DG/0061E TO 0078E (DATED 04-02-2019)	ACT	SRG	SUP	SUP
2	26-AUG-18	REVIEWED AS PER PMC COMMENTS NO. 13/AL/DG/0061E TO 0078E (DATED 26-08-2018)	ACT	SRG	SUP	SUP
1	26-JUL-18	ISSUE FOR CONSTRUCTION	ACT	SRG	SUP	SUP

PROJECT: WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION: SEAL & SIGN

EMPLOYER: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC: PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCC - OCI - NK - NKI - RITES

CONTRACTOR: EXPRESS FREIGHT CONSORTIUM
ARTISUL & CO. LTD. TATA

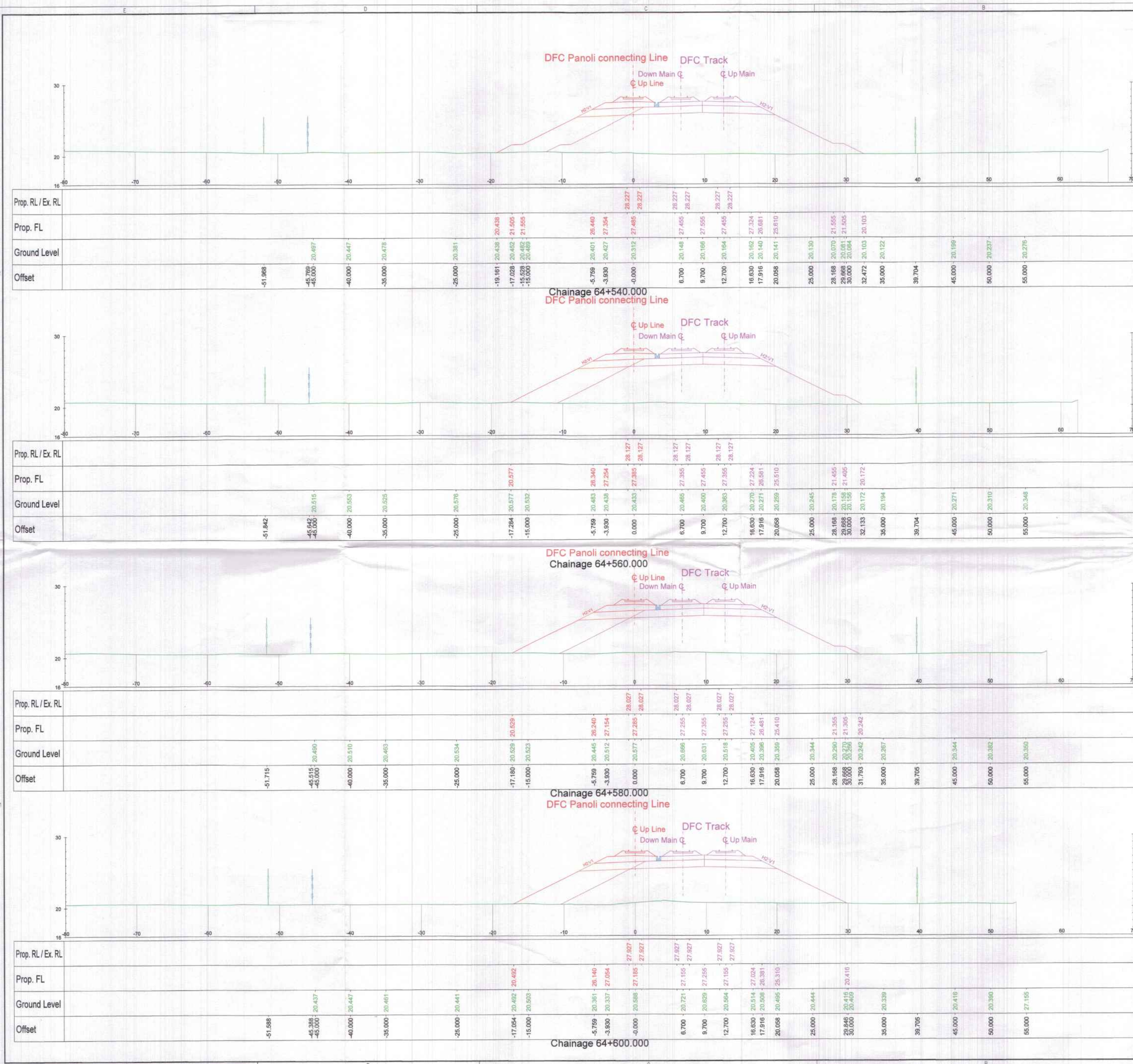
DESIGNER: STUP Consultants Pvt. Ltd.

TITLE: DETAILED CROSS SECTIONS FROM CH. 64+460 TO CH. 64+520

JOB NO:	8309	SIZE:	A1	STATUS:
DRAWN:	ACT	SRG	SRG	ID: (INCEPTION)
DSGN:	SRG	SRG	SRG	TD: (TECHNICAL)
CHKD:	SRG	SRG	SRG	CD: (CONSTRUCTION)
APPD:	SRG	SRG	SRG	BD: (AS BUILT)

SCALE: 1:250 DATE: 08-JUL-2019

DRS. NO: 13/AL/DG/0218-CD REV-3



 OCG-CGI-NK- NKI-RITES	
Submission No./ (In. No.)	Date:
Engineer's Response	
NONO	
Checked	Name: <u>P.P</u> Signature: <u>[Signature]</u>
Reviewed	[]
Authorized Signatory	<u>[Signature]</u>
Date:	<u>04-02-2020</u>

(NAVEEN CHOPRA)
 Alignment Engineer
 PMC - 2R (OCG Consortium)
 For 'The Engineer' for WDFC Phase -2

GOOD FOR CONSTRUCTION
EXPRESS FREIGHT CONSORTIUM
WDFFCIL - CTP-13
Contractor's Representative: Z. Z. Z. Z. Z. Date: _____

N. RAMAKRISHNA RAJU
Chief Design Engineer



(S.K. Pathak)

- NOTES:
1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
 2. EXISTING WORK IS SHOWN IN BLACK.
 3. PROPOSED WORK IS SHOWN IN RED.
 4. CHAINAGES SHOWN AS PER CPFC DOWN MAIN TRACK (IE ADJACENT TO IR TRACK).
 5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/AL/DG/00078-00078E (NONOC RECEIVED VIDE LETTER "L" NO.
 6. LCGG/DFCC/CMT/CT-13/1906/25094 (DATED 07-JUNE-2019)
 7. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.85M.
 8. THE DESIGNER IS NOT RESPONSIBLE FOR LCGG/DFCC/CMT/CT-13/1702/2913 (DATED 22-FEBRUARY-2017).
 9. TRACK FORMATION CROSS FALL - 1:30.
 10. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS, FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND FOR DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 11. FOR GROUND IMPROVEMENT, REFER TO DRAINAGE CROSS SECTIONS SUBMITTED SEPARATELY AS DETAILED BELOW.
 12. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF THIS S&T CHANGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 13. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 14. FOR DIVERSION OF ROAD/STREAM/NALLA ETC., REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
 15. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION LIMIT AND SAME SHALL BE DERIVED FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
 16. TOE LINES SHALL BE RECONFORMED AT SITE AS PER ACTUAL GROUND LEVELS.
 17. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF S&T/EAM CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 DETAILS OF RCC RETURN
WALL FOR EMBANKMENT
(ON ROW SIDE)

13/GE/DD/0762 GROUND IMPROVEMENT FOR
EXPANSIVE SOIL FOR
EMBANKMENT SRETCH FROM
CH 104.000 KM TO 126.000 KM

13/GE/DD/0763 GROUND IMPROVEMENT FOR
EXPANSIVE SOIL FOR
EMBANKMENT SRETCH FROM
CH. 126.000km TO 131.000km

13/GE/DD/0765 GROUND IMPROVEMENT FOR
EXPANSIVE SOIL FOR
EMBANKMENT SRETCH FROM
CH. 126.000km TO 131.000km

13/DE/DD/0766 GROUND IMPROVEMENT FOR
EXPANSIVE SOIL FOR
EMBANKMENT SRETCH FROM
CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/
DOWN MAIN LINE ARE INDICATIVE.
FOR MAIN LINE CROSS-SECTION
DETAILS, PLEASE REFER MAIN LINE
GFC DETAILED CROSS-SECTION
DRAWING #4.

EXISTING ROW AS PER ROW
PILLAR AVAILABLE AT SITE

PROPOSED NALLA DIVERSION

INNER EDGE OF PROPOSED
ROAD

INNER EDGE OF NOT IN SCOPE
SURFACE ROAD

BLANKET

SUBGRADE

EXISTING GROUND

FUTURE IR TRACK

The diagram shows a cross-section of a road and nalla diversion. At the top, there are two horizontal lines labeled 'ROW' (Right of Way) in green. Below these are two horizontal lines labeled 'PDC' (Proposed Diversion Channel) in red. Underneath the PDC lines are two horizontal lines labeled 'NDR' (Not in Scope Road) in blue. Below the NDR lines is a horizontal line labeled 'BLANKET' in green. Underneath the BLANKET line is a horizontal line labeled 'SUBGRADE' in red. Below the SUBGRADE line is a horizontal line labeled 'EXISTING GROUND' in green. At the bottom is a horizontal line labeled 'FUTURE IR TRACK' in green. The diagram is a simplified cross-section showing the relative positions of these elements.

[illegible]

PROJECT
WESTERN DEDICATED FREIGHT CORRIDOR
ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13
PROPOSED DFC CONNECTIVITY BETWEEN
PANOLI (IR) TO NEW SANJALI (DFC)

	ORGANIZATION	SEAL & SIGN
EMPLOYER		

 DEDICATED FREIGHT
CORRIDOR CORPORATION OF
INDIA LTD.

PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCG - OCI - NK - NKI - RITES
OGG CONSORTIUM

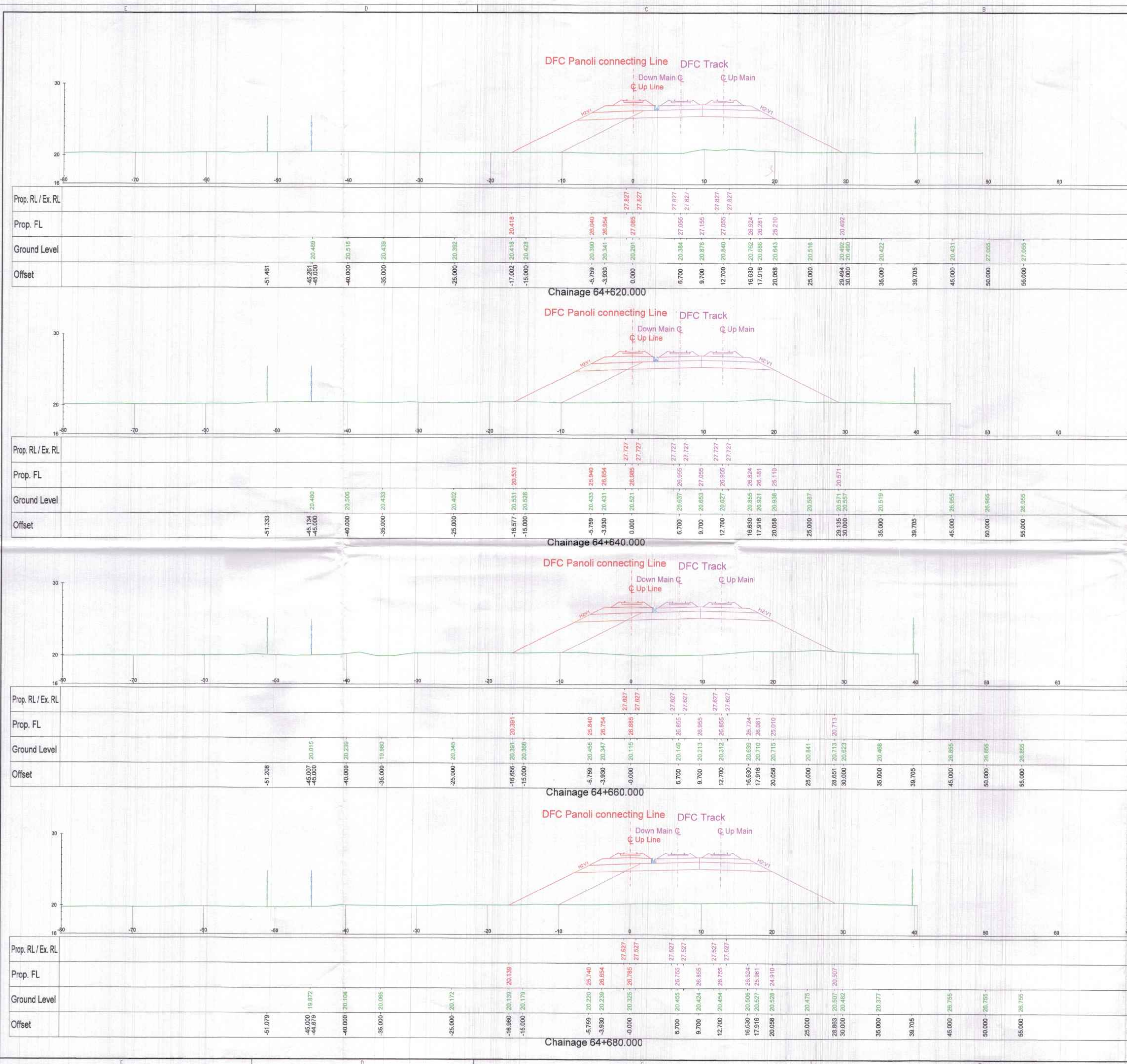
CONTRACTOR
EXPRESS FREIGHT CONSORTIUM

DESIGNER

	STUP Consultants Pvt. Ltd.
TITLE	DETAILED CROSS SECTIONS

FROM CH. 64+540 TO CH. 64+600	SIZE	STATUS
0000		

JOB NO: 6309			A1		ID: (INCEPTION)	
NAME SIGN			PROJECTION		TD: (TECHNICAL)	
DRWN	ACT	<i>ASB</i>			☒ CD: (CONSTRUCTION)	
DSGN	SRG	<i>✓</i>			BD: (AS BUILT)	
CHKD	SKP	<i>3/4</i>	SCALE		DATE : 08-JUL-2019	
APPD	SKP	<i>3/4</i>	1:250			
DWRG. NO. 13/A/DG/0219-CD					REV-3	



PMC-2R OCG Consortium Subcontract No. Mr. Ref. No.	OCG-OCI-NK NKI-RITES		Date:
	Engineer's Response		
NOKO			
	Name	Signature	
Checked	PP	<i>[Signature]</i>	
Reviewed			
Authorized Signature		<i>[Signature]</i>	
Date:	04.02.2020		

(NAVEEN CHOPRA)

Alignment CHOPRA

PMC -2R (OCG Consortium)

For 'The Engineer' for WDFC Phase -

1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
2. EXISTING WORK IS TO BE SHOWN IN BLACK.
3. PROPOSED WORK IS SHOWN IN RED.
4. CHAINAGES SHOWN ARE AS PER DCF DOWN MAIN CHAINAGE (I.E. PERCENT TO TRACK).
5. DETAILED CROSS-SECTION TO BE BASED ON APPROVED ALIGNMENT DRAWING 13A/LD/G/0061E TO 0078E (NONOC RECEIVED VIDE LETTER "L NO. LD/DC/CF/CM/CTP-13/1908/25094 (DATED 07-JUNE-2019)
6. DETAILED CROSS-SECTION DETAILS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION GRADE WHICH IS CHANGED TO 10M TO 13.86M VIDE ENGINEER LETTER NO. - LD/DC/CF/CM/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017)
7. TRACK FORMATION CROSS FALL - 1:30.
8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
9. FOR FLOODING DETAILS REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS.
10. SUBMITTED SEPARATELY AS DETAILED BELOW.
11. FOR GROUND IMPROVEMENTS REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
12. DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DCF DOWN LINE AND NOT IN SCOPE OF CTP13 CHINAIGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWING.
13. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
14. FOR DIVERSION OF ROAD/STRAIGHT/CHANNEL ETC. REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
15. FOR GATE DETAILS REFER TO CROSS-SECTION LIMIT. THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT. TOTAL LINES SHALL BE DETERMINED AT SITE AS PER ACTUAL GROUND LEVELS.
16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF SIX/SEVEN LABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/GD/11100		DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)
13/GE/DD/0762		GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH 104.000 KM TO 121.000 KM
13/GE/DD/0763		GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/GE/DD/0765		GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km
13/DE/DD/0766		GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT SRETCH FROM CH. 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/
DOWN MAIN LINE ARE INDICATIVE.
FOR MAIN LINE CROSS-SECTION
DETAILS, PLEASE REFER MAIN LINE
GFC DETAILED CROSS SECTION
DRAWING **

EXISTING ROW AS PER ROW
PILLAR AVAILABLE AT SITE

PROPOSED NALLA DIVERSION
INNER EDGE OF PROPOSED
ROAD

INNER EDGE OF NOT IN SCOPE
SERVICE ROAD
BLANKET

SUBGRADE

EXISTING GROUND

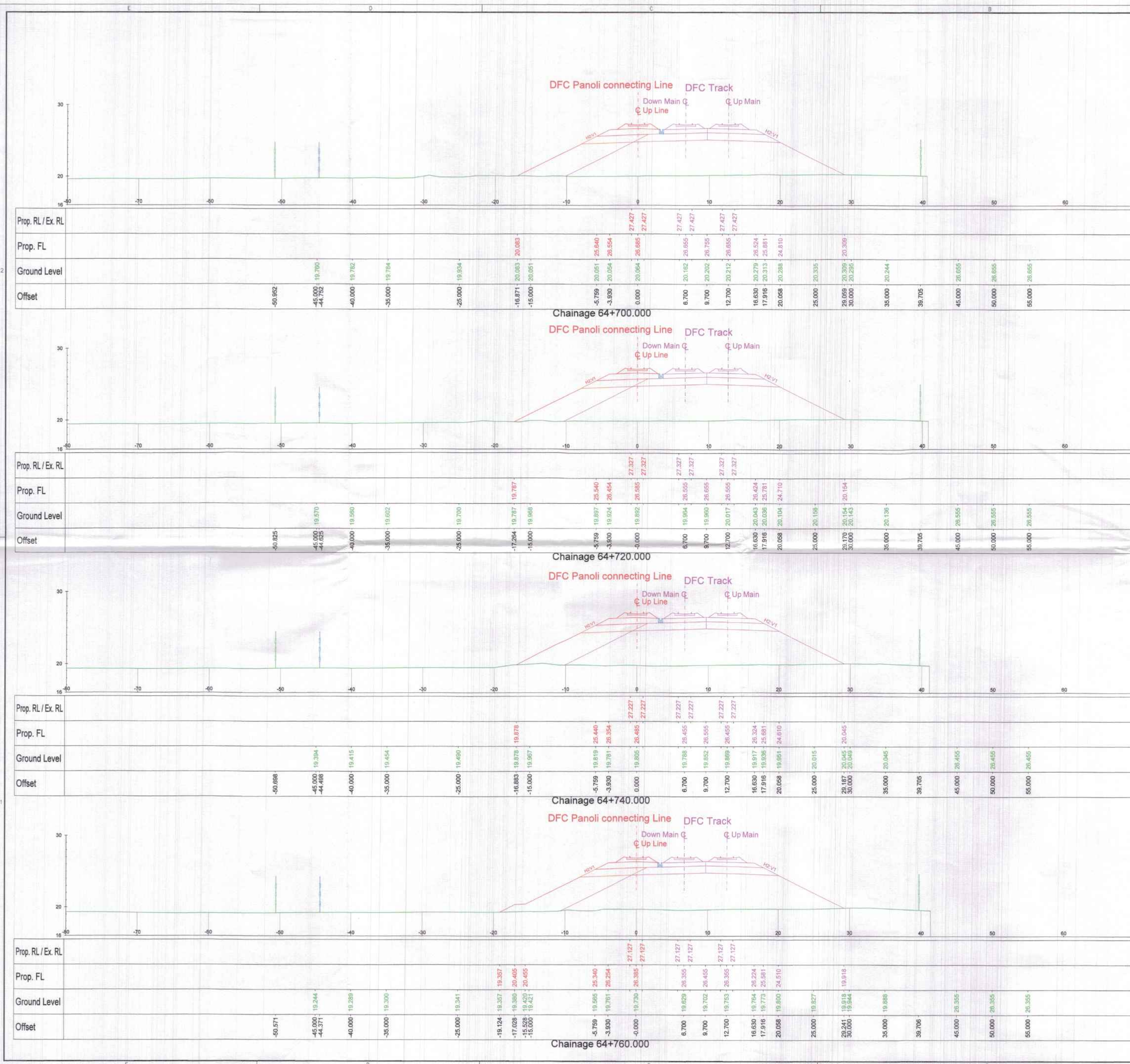
FUTURE IR TRACK

GOOD FOR CONSTRUCTION	
EXPRESS FREIGHT CONSORTIUM	
WDFCCIL - CTP-13	
 Contractor's Representative	Date:

N. Ramakrishna Raju
N. RAMAKRISHNA RAJU
Chief Design Engineer

22/2
(S.K. Pathak)

[illegible]



PMC-2R
OCC-OCI-NK-
NKI-RITES

Engineer's Response

Checked P.P. [Signature]

Reviewed [Signature]

Authorized [Signature]

Date: 04.02.2020

(NAVEEN CHOPRA)

Alignment Engineer

PMC-2R (OCC Consortium)

For 'The Engineer' for WDFC Phase-2

GOOD FOR CONSTRUCTION

EXPRESS FREIGHT CONSORTIUM

WDFCCIL - CTP-13

Contractor's Representative [Signature]

Date:

Naveen
N. RAMAKRISHNA RAJU
Chief Design Engineer



C.S.K. Pathak

- NOTES:
1. ALL DIMENSIONS ARE IN METERS AND CHAINAGES ARE IN KILOMETERS UNLESS OTHERWISE STATED.
 2. EXISTING WORK IS SHOWN IN BLACK.
 3. PROPOSED WORK IS SHOWN IN RED.
 4. CHAINAGES SHOWN ARE AS PER DFC DOWN MAIN TRACK (IE ADJACENT TO IR TRACK).
 5. DETAILED CROSS SECTIONS ARE BASED ON APPROVED ALIGNMENT DRAWING 13/A/00/0061E TO 0078E (NONOC RECEIVED VIDE LETTER 'L' NO. L/OCCG/DFCC/CMT/CTP-13/1906/25094 (DATED 07-JUNE-2019)
 6. DETAILED CROSS SECTIONS ARE PREPARED WITH REFERENCE TO APPROVED TYPICAL CROSS-SECTIONS EXCEPT THE FORMATION WIDTH, WHICH IS CHANGED FROM 13.5M TO 13.88M VIDE ENGINEER LETTER NO. L/OCCG/DFCC/CMT/CTP-13/1702/2913 (DATED 22-FEBRUARY-2017).
 7. TRACK FORMATION CROSS FALL - 1:30.
 8. FOR THE LOCATION OF STRUCTURES REFER TO RELEVANT GENERAL ARRANGEMENT DRAWINGS.
 9. FOR DRAINAGE DETAILS, REFER TO LATEST STORM WATER DRAIN PLAN & PROFILE DRAWING AND TYPICAL DRAINAGE CROSS SECTION DETAILS SUBMITTED SEPARATELY AS DETAILED BELOW.
 10. FOR GROUND IMPROVEMENT, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 11. THE DETAILS OF FORMATION LEVELS, OFFSET DISTANCE BETWEEN IR UP LINE AND DFC DOWN LINE AND NOT IN SCOPE OF CTP13 CHAINAGE LIMITS SHALL BE VERIFIED WITH APPROVED ALIGNMENT DRAWINGS.
 12. FOR EARTH RETAINING STRUCTURE DETAILS, REFER TO RELEVANT DRAWINGS SUBMITTED SEPARATELY AS DETAILED BELOW.
 13. FOR DIVERSION OF ROAD/STREAM/NALLA ETC., REFER TO RELEVANT DIVERSION DRAWINGS SUBMITTED SEPARATELY.
 14. IF ROW IS GREATER THAN CROSS-SECTION LIMIT, THE ROW LINE IS NOT SHOWN CROSS SECTION DRAWING AND SAME SHALL BE TAKEN FROM ALIGNMENT DRAWINGS/ROW VALIDATION REPORT.
 15. TOE LINES SHALL BE RECONFIRMED AT SITE AS PER ACTUAL GROUND LEVELS.
 16. PROVISION SHALL BE MADE FOR TRACK CROSSINGS OF SAT/STREAM CABLES AS PER CONTRACT REQUIREMENT.

REFERENCE TO DRAWINGS: (LATEST REVISION)

13/ST/DG/11100 DETAILS OF RCC RETURN WALL FOR EMBANKMENT (ON ROW SIDE)

13/GE/DD/0762 GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 104.000 KM TO 126.000 KM

13/GE/DD/0763 GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 126.000km TO 131.000km

13/GE/DD/0765 GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 126.000km TO 131.000km

13/DE/DD/0766 GROUND IMPROVEMENT FOR EXPANSIVE SOIL FOR EMBANKMENT STRETCH FROM CH 126.000km TO 131.000km

LEGENDS & ABBREVIATION:

THE CROSS-SECTION OF DFC UP/ DOWN MAIN LINE ARE INDICATIVE. FOR MAIN LINE CROSS-SECTION DETAILS, PLEASE REFER MAIN LINE GFC DETAILED CROSS-SECTION DRAWING **

EXISTING ROW AS PER ROW PILLAR AVAILABLE AT SITE

PROPOSED NALLA DIVERSION

INNER EDGE OF PROPOSED ROAD

INNER EDGE OF NOT IN SCOPE SERVICE ROAD

BLANKET

SUBGRADE

EXISTING GROUND

FUTURE IR TRACK

NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	APPROVED
3	26-AUG-18	REVISED AS PER PMC COMMENT LNO 13/ST/DG/11100 (DATED 14-OCT-2018)	ACT	SRG	SKP	SKP
2	26-AUG-18	REVISED AS PER PMC COMMENT LNO 13/ST/DG/11100 (DATED 15-AUG-2018)	ACT	SRG	SKP	SKP
1	08-JUL-18	ISSUE FOR CONSTRUCTION	ACT	SRG	SKP	SKP

PROJECT: WESTERN DEDICATED FREIGHT CORRIDOR ADDITIONAL SCOPE OF CONTRACT PACKAGE - 13 PROPOSED DFC CONNECTIVITY BETWEEN PANOLI (IR) TO NEW SANJALI (DFC)

ORGANIZATION SEAL & SIGN

EMPLOYER
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD.

PMC
PMC-2R ORIENTAL CONSULTANTS GLOBAL CONSORTIUM
OCC - OCI - NK - NKI - RITES

CONTRACTOR
EXPRESS FREIGHT CONSORTIUM
MITSUBISHI LTD. IFM TATA

DESIGNER
STUP Consultants Pvt. Ltd.

TITLE
DETAILED CROSS SECTIONS FROM CH. 64+700 TO CH. 64+760

JOE NO: 8309	SIZE A1	STATUS
DRWN ACT	PROJECTION	ID: (INCEPTION)
DSGN SRG		TD: (TECHNICAL)
CHKD SKP	SCALE	CD: (CONSTRUCTION)
APPD SKP	1:250	BD: (AS BUILT)
DATE: 08-JUL-2019		

DWG. NO. 13/A/DG/0221-CD REV-3