

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :
Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE MINOR BRIDGE 03
PALANPUR CONNECTING LINE

Drawing Number :
NKC-CTS -BRD-AHM-PCL-00003 (SHEET 2 OF 3)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM AHMEDABAD
Drawn By : S. Salamuddin | Checked By : M. N. Ahmad | Approved By : H. Kawahara
Date : 30th, Sept, 2012 | Date : 1st, Oct, 2012 | Date : 3rd, Oct, 2012



NK Consortium
4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Sect. No.	Structure		FL (m)	BL (m)	RL/GL (m)	HFL/FSL (m)	Type of Structure	Structure configuration	No. of tracks Proposed for DFCC	Skew Angle	Type of Crossing	Box Configuration								Return Wall(U/S:D/S)				BERM LVL (m)		
	DFC	DFC										n	W(m)	H (m)	T1 (m)	T2 (m)	T3 (m)	A (m)	B (m)	Barrel Length-Z (m)	FILL(m)	TOP LVL (m)	FDN LVL (m)		Height (m)	Length (m)
9 (Palanpur Connecting Line)	1166	2-PCL	189.074	184.027	184.027	184.800	Minor Bridge	Rcc Box	4	-	Drain	2	1.20	1.200	0.400	0.400	0.400	0.300	0.200	40.438	3.547	185.527	182.027	3.500	2.250	-
9 (Palanpur Connecting Line)	13184	27-PCL	231.426	227.240	227.240	228.000	Minor Bridge	Rcc Box	2	-	Drain	2	2.00	2.000	0.400	0.400	0.400	0.300	0.200	21.794	1.886	229.540	225.240	4.300	3.450	-

NOTE: (i) F.L is based on the alignment drawing modified by NKC and should be reconfirmed in detailed design survey.
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(iii) Nos. of Track shall be confirmed from FLS & Station Yard Plan
(iv) Berm of 1.5 m width shall be provided on the slope of every 6 m height.
(v) Barrel Length may vary as per site condition.

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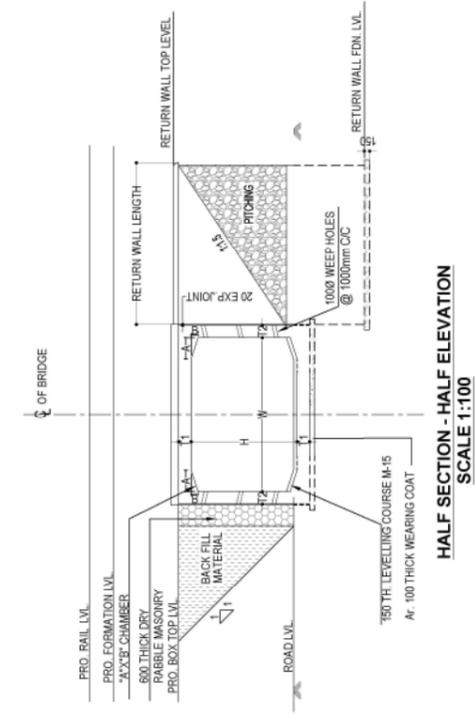
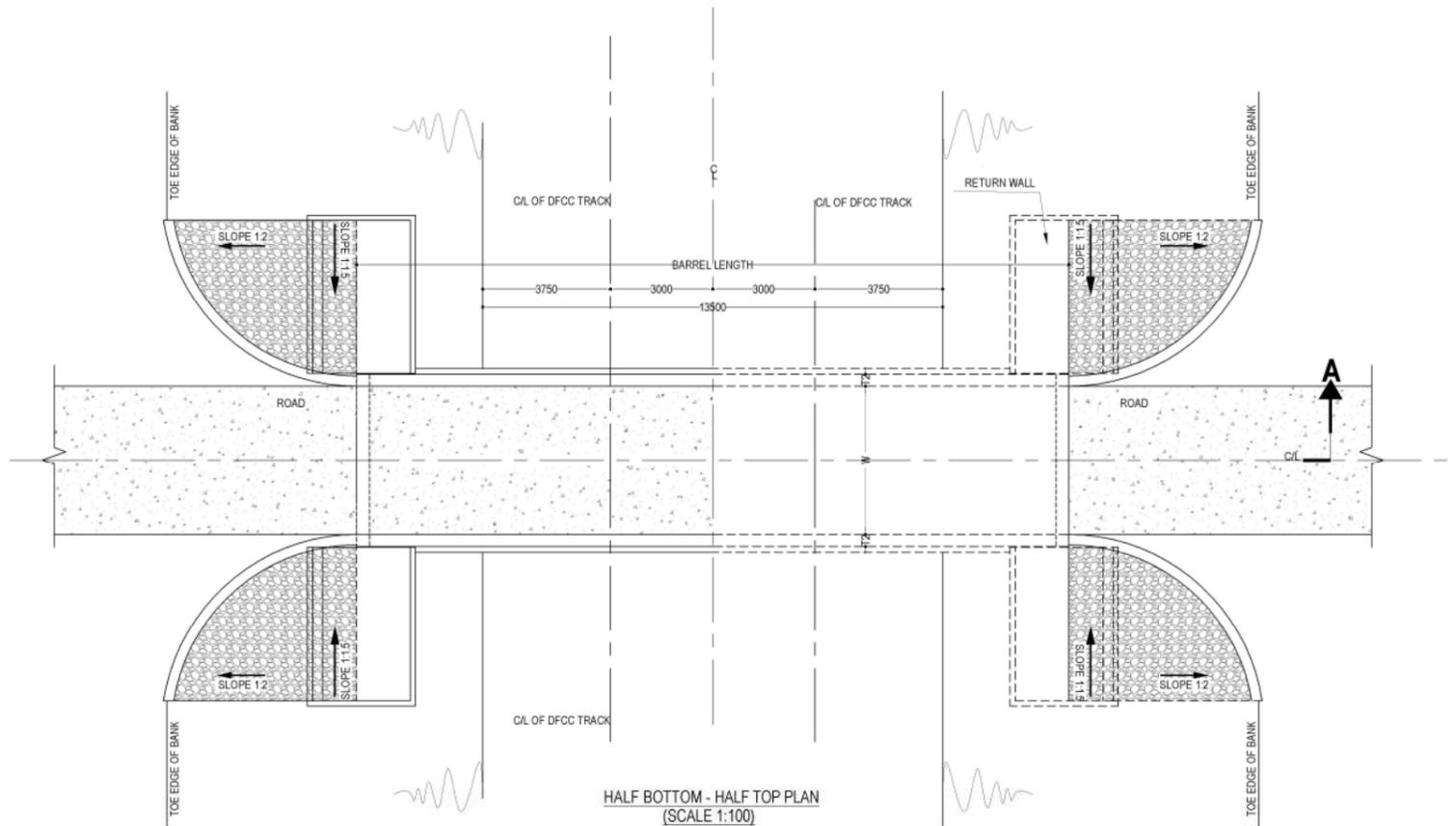
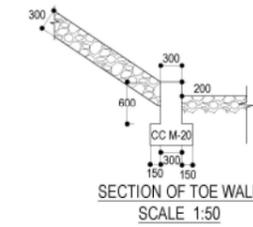
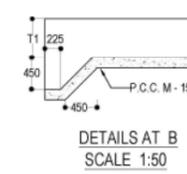
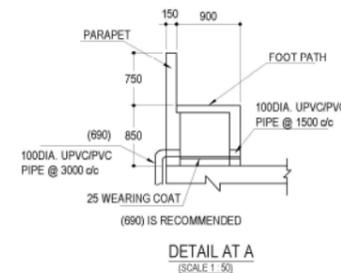
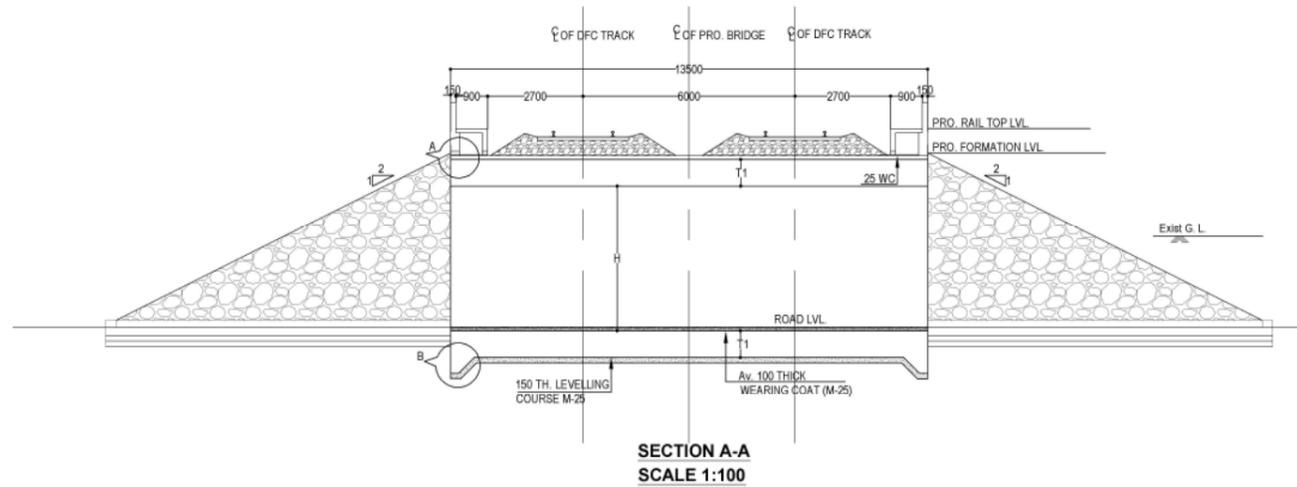
Drawing Title :
**GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE MINOR BRIDGE 03
PALANPUR CONNECTING LINE**

Drawing Number :
NKC-CTS -BRD-AHM-PCL-00003 (SHEET 3 OF 3)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM AHMEDABAD
Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara
Date : 30th , Sept , 2012 Date : 1st , Oct , 2012 Date : 3rd , Oct , 2012



NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
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- GENERAL NOTES:
- 1) ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
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 - 4) ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING IR BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
 - 5) FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
 - 6) LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 - 7) DURING THE COURSE OF CONSTRUCTION, SAFETY & PROTECTION OF THE PROPOSED WORK AND SAFETY & PROTECTION OF THE RUNNING TRAIN ON THE EXISTING TRACK IS TO BE ENSURED BY THE CONTRACTOR.
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- FOUNDATION
- 1) SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE DESIGN OF STRUCTURES.
- GEO-TECHNICAL
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL INVESTIGATION REPORT IN DATA BOOK 2/2.
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Client :

Dedicated Freight Corridor Corporation of India
 (A GOVERNMENT OF INDIA UNDERTAKING)
 5th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA

Drawing Title :
GENERAL ARRANGEMENT DRAWING
 FOR RCC BOX TYPE RUB 01
 PALANPUR CONNECTING LINE

Drawing Number :
NKC-CTS -RUB-AHM-PCL-00004 (SHEET 1 OF 2)

Scale :
AS SHOWN

Reference :
GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara
 Date : 30th, Sept, 2012 Date : 1st, Oct, 2012 Date : 3rd, Oct, 2012



NK Consortium
 4th Floor, Pragati Maidan Metro Station Building,
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Sec. No.	Structure Chainage	Proposed Bridge No.	FL (m)	BL (m)	RL (m)	Type of Structure	Structure configuration	No. of tracks Proposed for DFCC	Skew Angle	Type of Crossing	Box Configuration							Return Wall					
											n	W (m)	H (m)	T1 (m)	T2 (m)	A (m)	B (m)	Barrel Length-Z (m)	FILL(m)	TOP LVL (m)	FDN LVL (m)	Height L(m)	Length M(m)
9 (Palanpur Connecting Line)	33	1AB-PCL	186.242	182.042	186.077	RUB-Minor	RCC Box	2	-	Village Road	1	5.50	3.70	0.500	0.500	0.6	0.2	13.500	0.000	186.24	180.042	6.20	6.300
9 (Palanpur Connecting Line)	1360	3-PCL	191.672	187.472	193.923	RUB-Minor	RCC Box	2	-	Village Road	1	5.50	3.70	0.500	0.500	0.6	0.2	13.500	0.000	191.67	185.472	6.20	6.300
9 (Palanpur Connecting Line)	5000	9A-PCL	205.109	200.909	204.645	RUB-Minor	RCC Box	2	-	Village Road	1	5.50	3.70	0.500	0.500	0.6	0.2	13.500	0.000	205.11	198.909	6.20	6.300
9 (Palanpur Connecting Line)	7182	13-PCL	214.347	210.147	212.283	RUB-Minor	RCC Box	2	15°	Road	1	4.00	3.70	0.500	0.500	0.6	0.2	13.500	0.000	214.35	208.147	6.20	6.300
9 (Palanpur Connecting Line)	7700	14-PCL	216.937	211.537	216.782	RUB-Minor	RCC Box	2	20°	Road	1	6.10	4.60	0.800	0.800	0.6	0.2	13.500	0.000	216.94	209.537	7.40	8.100
9 (Palanpur Connecting Line)	9030	16-PCL	220.887	216.487	218.400	RUB-Minor	RCC Box	2	30°	Road	1	4.00	3.70	0.700	0.700	0.6	0.2	13.500	0.000	220.89	214.487	6.40	6.600
9 (Palanpur Connecting Line)	9240	17-PCL	221.937	216.937	219.387	RUB-Minor	RCC Box	2	30°	Road	1	9.15	4.60	1.000	0.700	0.6	0.2	13.500	-0.600	221.94	214.937	7.60	7.500

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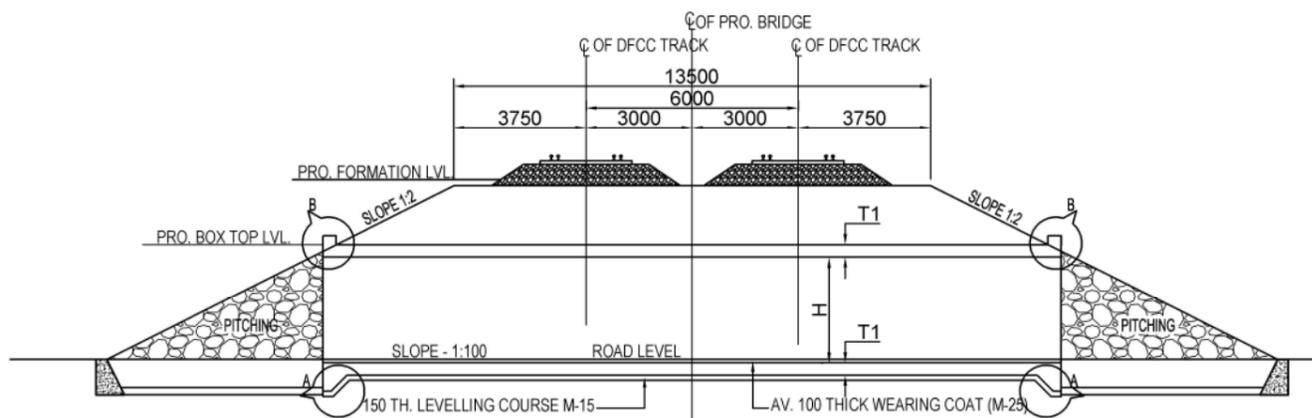
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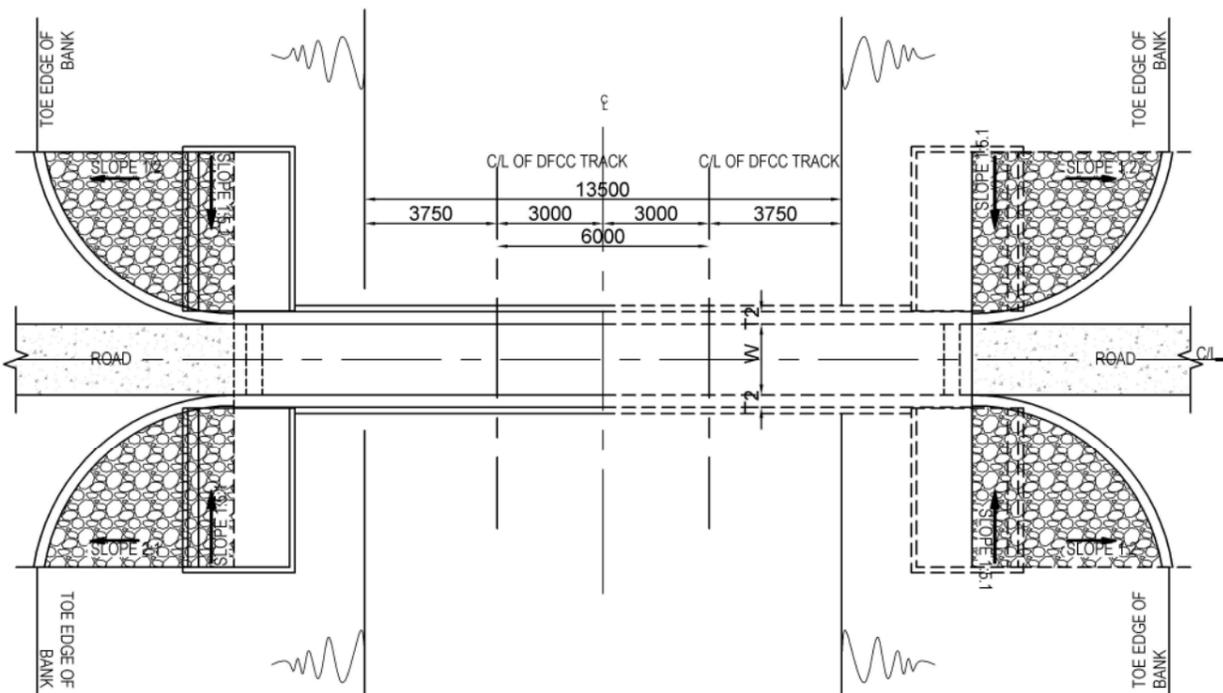
NK Consortium

4th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA

<p>Project Title : Dedicated Freight Corridor Project (Western Corridor Phase-1: Rewari - Vadodara Section)</p>	<p>Client :  Dedicated Freight Corridor Corporation of India (A GOVERNMENT OF INDIA UNDERTAKING) 5th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>	<p>Drawing Title : GENERAL ARRANGEMENT DRAWING FOR RCC BOX TYPE RUB 01 PALANPUR CONNECTING LINE</p>	<p>Drawing Number : NKC-CTS -RUB-AHM-PCL-00004 (SHEET 2 OF 2)</p> <p>Scale : AS SHOWN</p> <p>Reference : GAD PREPARED BY CPM AHMEDABAD</p> <p>Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara Date : 30th, Sept, 2012 Date : 1st, Oct, 2012 Date : 3rd, Oct, 2012</p>
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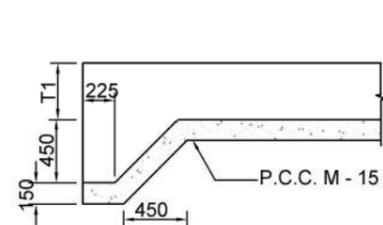


SECTION A-A
(SCALE 1:200)

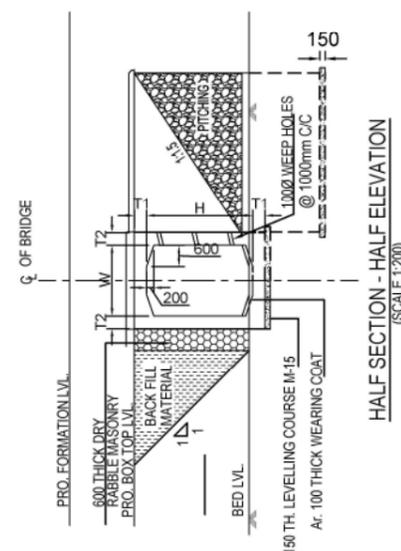
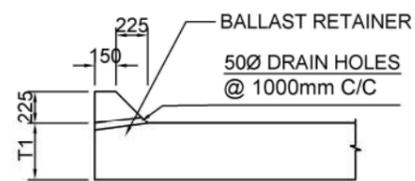


HALF PLAN AT BOTTOM
(SCALE 1:200)

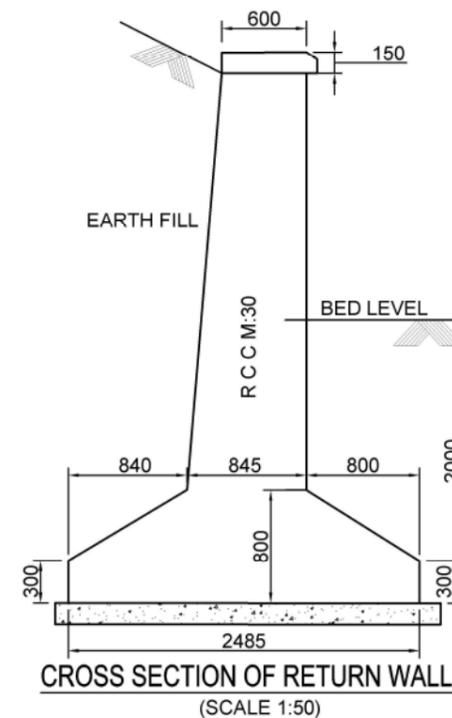
HALF PLAN AT TOP
(SCALE 1:200)



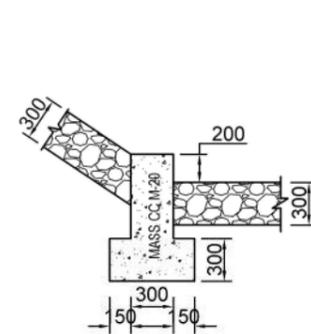
DETAIL AT A & B
(SCALE 1:50)



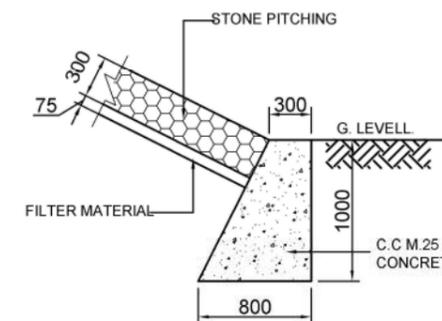
HALF SECTION - HALF ELEVATION
(SCALE 1:200)



CROSS SECTION OF RETURN WALL
(SCALE 1:50)



SECTION OF TOE WALL
(SCALE 1:50)



SECTION OF CURTAIN/DROP WALL
(SCALE 1:50)

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5th Floor, Pragati Maidan Metro Station Building,
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Drawing Title :
GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE RUB 02
PALANPUR CONNECTING LINE

Drawing Number :
NKC-CTS-RUB-AHM-PCL-00005 (SHEET 1 OF 2)

Scale :
AS SHOWN

Reference :
GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin | Checked By : M. N. Ahmad | Approved By : H. Kawahara
Date : 30th, Sept, 2012 | Date : 1st, Oct, 2012 | Date : 3rd, Oct, 2012

Consultant :
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Sec. No.	Structure Chainage	Proposed Bridge No.	FL (m)	GL (m)	RL (m)	Type of Structure	Structure configuration	No. of tracks Proposed for DFCC	Skew Angle	Type of Crossing	Box Configuration								Return Wall					
											n	W (m)	H (m)	T1 (m)	T2 (m)	A (m)	B (m)	Barrel Length-Z (m)	FILL(m)	TOP LVL (m)	FDN LVL (m)	Height L(m)	Length M(m)	BERM LVL-1 (m)
9 (Palanpur Connecting Line)	6305.0	11-PCL	210.522	205.354	205.850	RUB-Minor	RCC Box	2	-	Road	1	4	3.7	0.5	0.5	0.6	0.2	18.122	0.968	209.55	203.354	6.20	6.300	-
9 (Palanpur Connecting Line)	10075.0	19-PCL	226.112	219.251	219.750	RUB-Minor	RCC Box	2	-	Road	1	5.5	4.6	0.80	0.80	0.6	0.2	20.094	1.461	224.65	217.251	7.40	8.100	220.112
9 (Palanpur Connecting Line)	10510.0	20-PCL	228.287	218.345	218.840	RUB-Minor	RCC Box	2	-	Road	1	5.5	4.6	0.80	0.80	0.6	0.2	32.418	4.542	223.75	216.345	7.40	8.100	222.287
9 (Palanpur Connecting Line)	11165.0	21-PCL	231.562	220.192	220.632	RUB-Minor	RCC Box	2	15°	Road	1	9.15	4.6	1.00	0.70	0.6	0.2	37.330	5.770	225.79	218.192	7.60	8.400	225.562
9 (Palanpur Connecting Line)	11780.0	24-PCL	234.229	218.181	218.681	RUB-Minor	RCC Box	2	20°	Road	1	4	3.7	0.7	0.7	0.6	0.2	63.842	11.648	222.58	216.181	6.40	6.600	228.229

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Drawing Title :
**GENERAL ARRANGEMENT DRAWING
 FOR RCC BOX TYPE RUB 02
 PALANPUR CONNECTING LINE**

Drawing Number :
NKC-CTS-RUB-AHM-PCL-00005 (SHEET 2 OF 2)

Scale :
AS SHOWN

Reference :
GAD PREPARED BY CPM AHMEDABAD

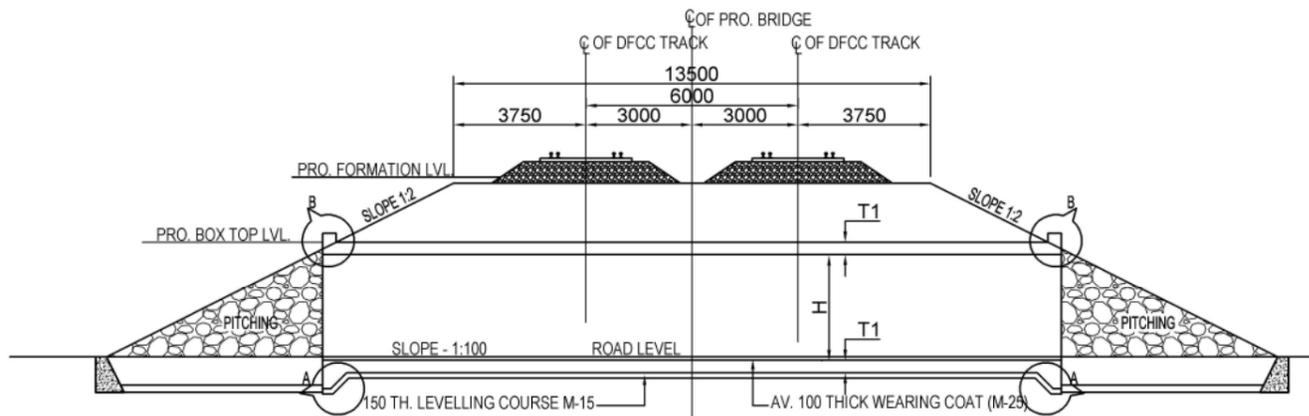
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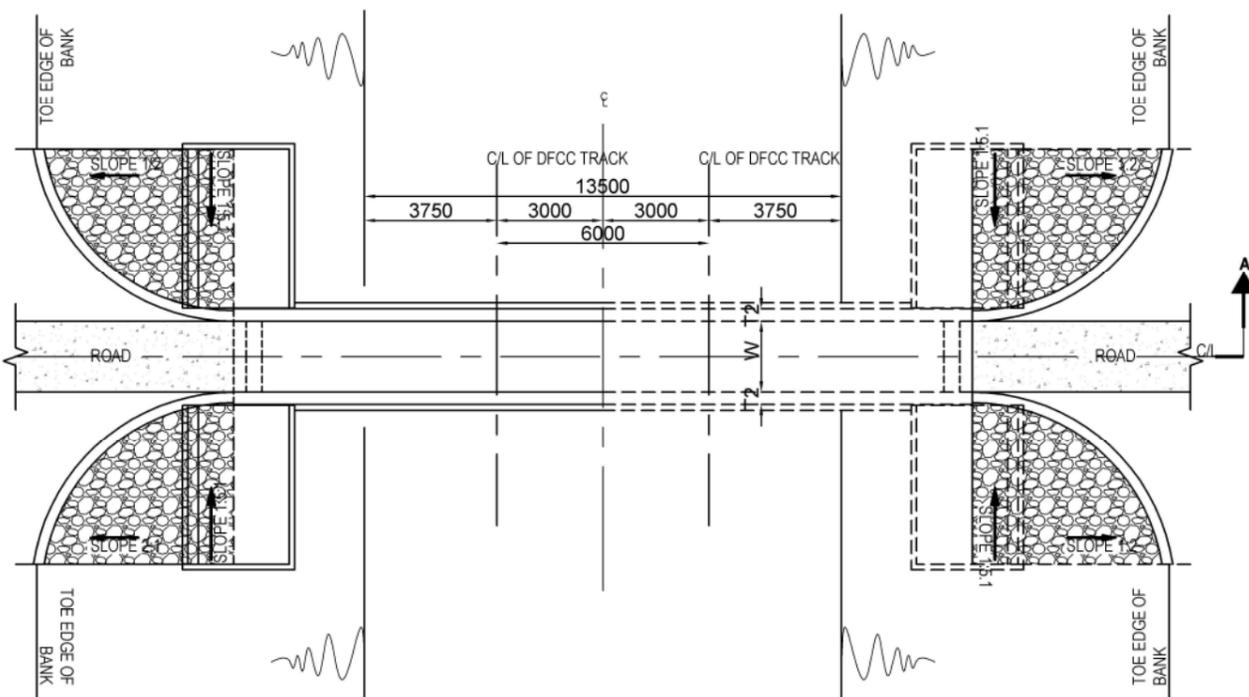
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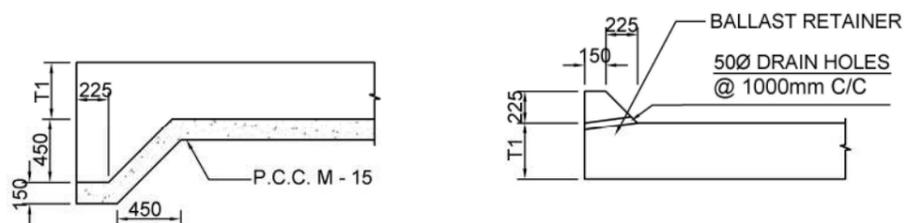


SECTION A-A
(SCALE 1:200)

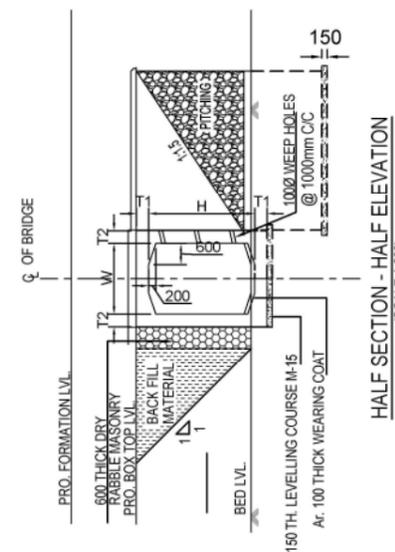


HALF PLAN AT BOTTOM
(SCALE 1:200)

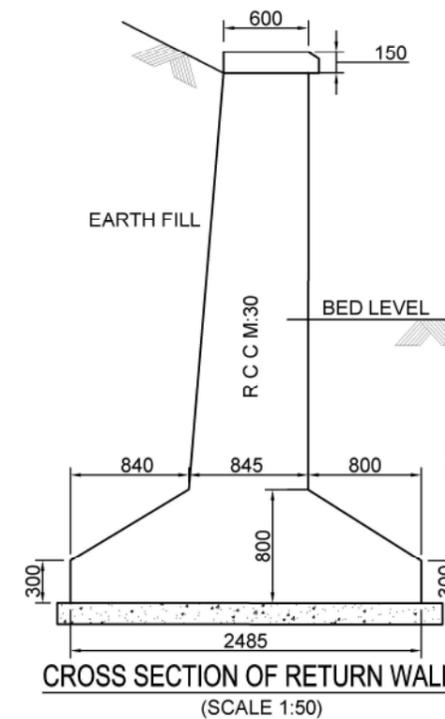
HALF PLAN AT TOP
(SCALE 1:200)



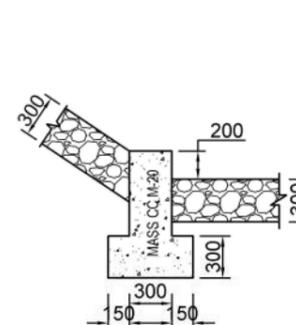
DETAIL AT A & B
(SCALE 1:50)



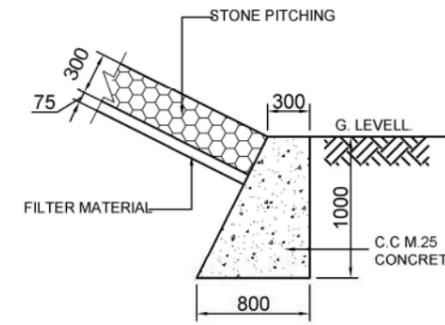
HALF SECTION - HALF ELEVATION
(SCALE 1:200)



CROSS SECTION OF RETURN WALL
(SCALE 1:50)



SECTION OF TOE WALL
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SECTION OF CURTAIN/DROP WALL
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Rewari - Vadodara Section)

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE RUB 04
MEHSANA CONNECTING LINE

Drawing Number :
NKC-CTS -RUB-AHM-MCL-00006 (SHEET 1 OF 2)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM AHMEDABAD
Drawn By : S. Salamuddin
Checked By : M. N. Ahmad
Approved By : H. Kawahara
Date : 30th, Sept, 2012
Date : 1st, Oct, 2012
Date : 3rd, Oct, 2012



NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Sec. No.	Structure Chainage	Proposed Bridge No.	FL (m)	GL (m)	RL (m)	Type of Structure	Structure configuration	No. of tracks Proposed for DFCC	Skew Angle	Type of Crossing	Box Configuration						Return Wall								
											n	W (m)	H (m)	T1 (m)	T2 (m)	A (m)	B (m)	Barrel Length-Z (m)	FILL(m)	TOP LVL (m)	FDN LVL (m)	Height L(m)	Length M(m)	BERM LVL-1 (m)	BERM LVL-2 (m)
8N-New (Mehsana Connecting Line)	2630	MCL - 1	102.010	91.721	91.721	RUB-Minor	RCC Box	2	30	Road	1	4.00	3.70	0.600	0.600	0.6	0.2	38.206	5.989	96.021	89.721	6.30	6.45	96.01	-
8N-New (Mehsana Connecting Line)	3100	MCL - 2	104.360	92.697	92.697	RUB-Minor	RCC Box	2	20	RCC Road	1	4.00	3.70	0.600	0.600	0.6	0.2	46.702	7.363	96.997	90.697	6.30	6.45	98.36	-
8N-New (Mehsana Connecting Line)	3380	MCL - 3	105.600	92.024	92.024	RUB-Minor	RCC Box	2	-	Cart Track	1	4.00	3.70	0.700	0.700	0.6	0.2	53.954	9.176	96.424	90.024	6.40	6.60	99.6	93.6
8N-New (Mehsana Connecting Line)	3920	MCL - 4	107.220	92.752	92.752	RUB-Minor	RCC Box	2	-	Cart Track	1	4.00	3.70	0.700	0.700	0.6	0.2	57.522	10.068	97.152	90.752	6.40	6.60	101.22	95.22
8N-New (Mehsana Connecting Line)	4450	MCL - 6	107.475	92.144	92.144	RUB-Minor	RCC Box	2	-	Cart Track	1	4.00	3.70	0.800	0.800	0.6	0.2	60.574	10.831	96.644	90.144	6.50	6.75	101.475	95.475
8N-New (Mehsana Connecting Line)	5150	MCL - 7	105.095	91.734	91.734	RUB-Minor	RCC Box	2	40	Road	1	6.10	4.60	0.800	0.800	0.6	0.2	49.094	7.961	97.134	89.734	7.40	8.10	99.095	93.095

NOTE (i) F.L is based on the alignment drawing modified by NKC and should be reconfirmed in detailed design survey.
(ii) G.L is based on GAD prepared by CPM and should be reconfirmed in detailed design and survey.
(iii) Nos. of Track shall be confirmed from FLS & Station Yard Plan
(iv) Berm of 1.5 m width shall be provided on the slope of every 6 m height.
(v) Barrel Length may vary as per site condition.

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :
**Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)**

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
**GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE RUB 04
MEHSANA CONNECTING LINE**

Drawing Number :
NKC-CTS -RUB-AHM-MCL-00006 (SHEET 2 OF 2)

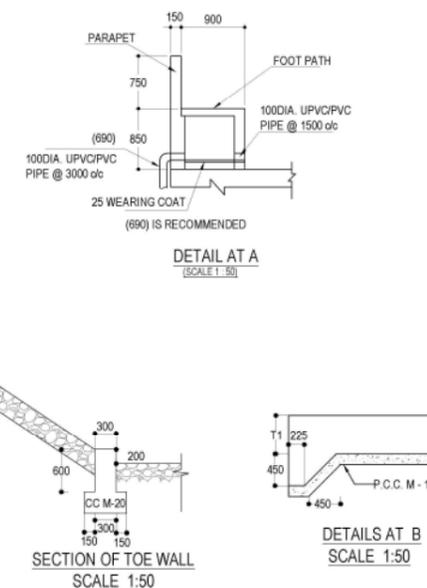
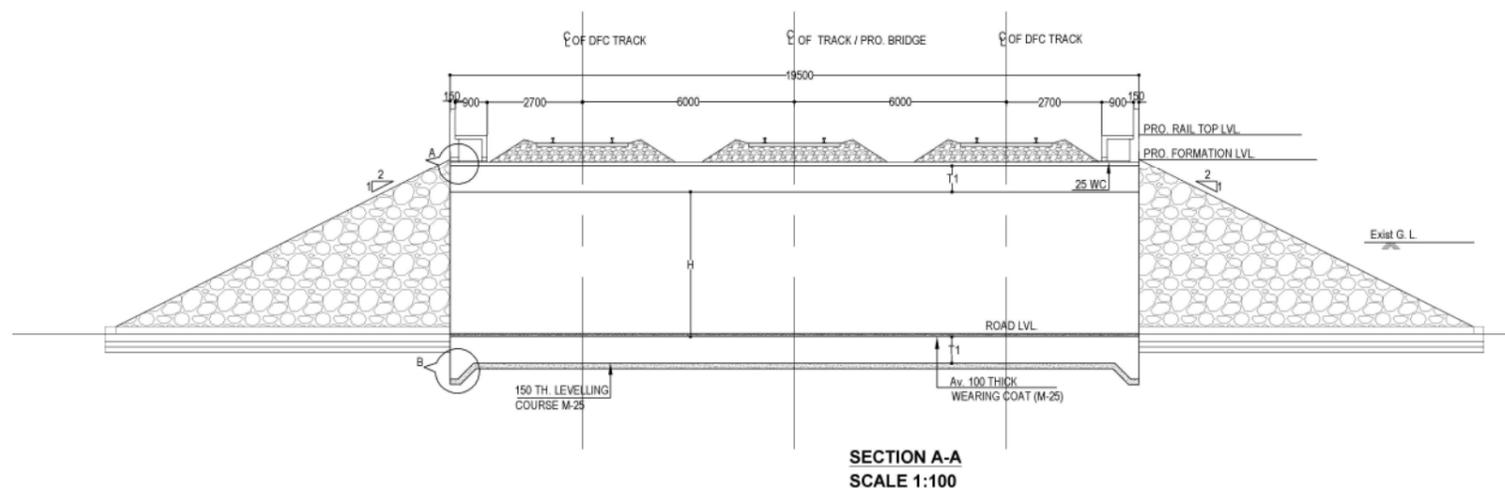
Scale :
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Reference :
GAD PREPARED BY CPM AHMEDABAD

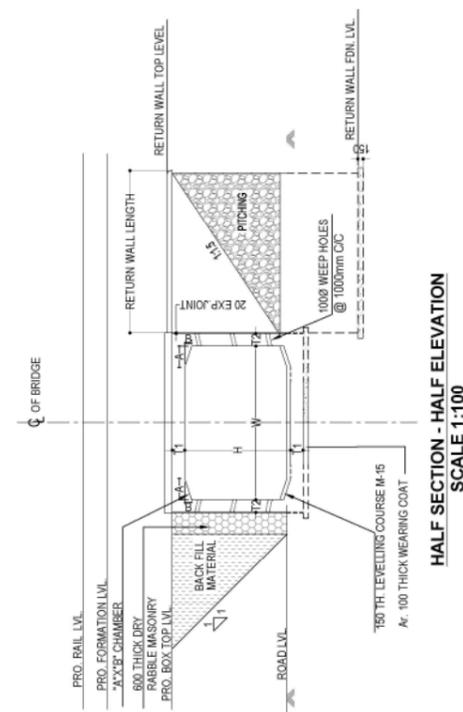
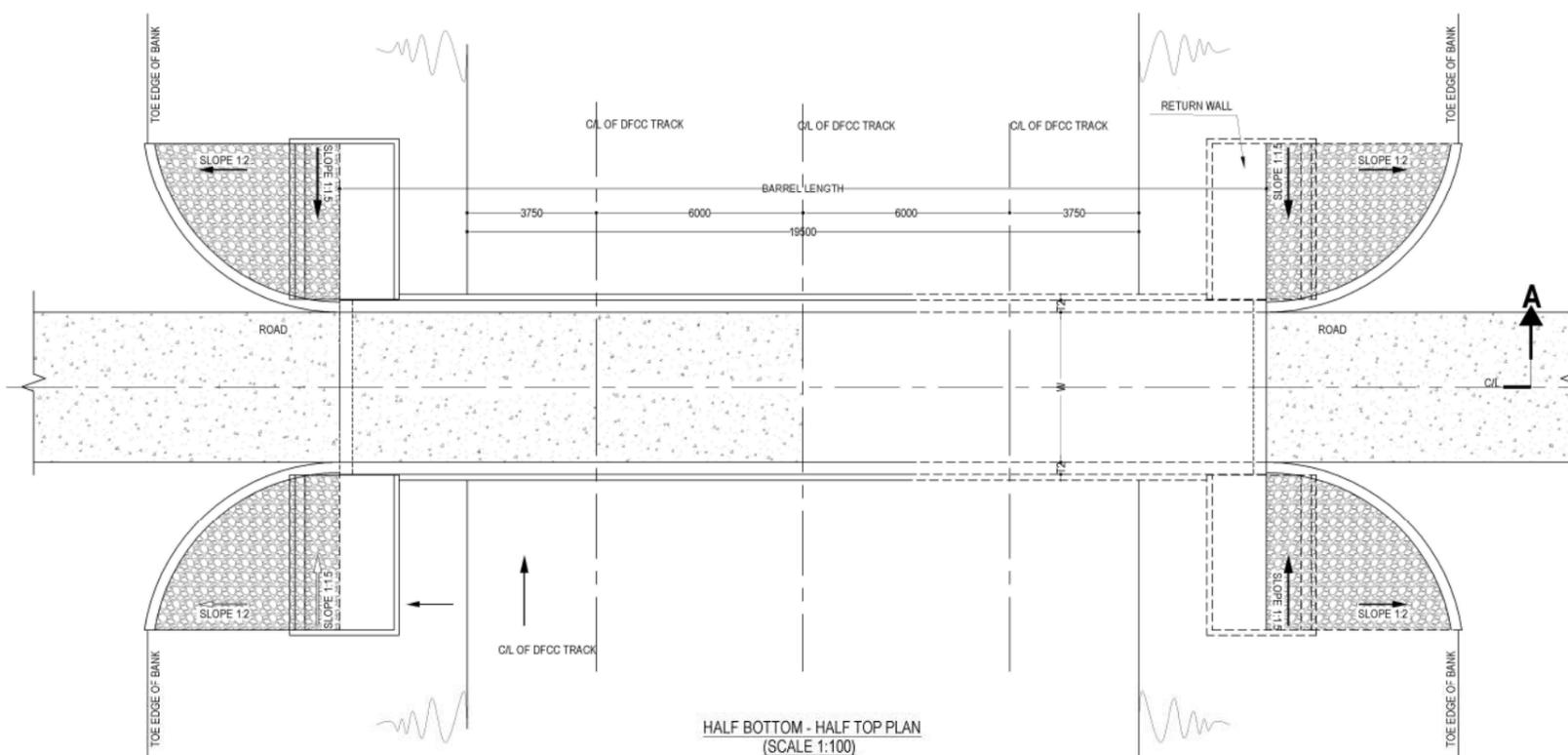
Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara
Date : 30th, Sept, 2012 Date : 1st, Oct, 2012 Date : 3rd, Oct, 2012




NK Consortium
4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



- GENERAL NOTES:**
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 - 2) ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
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 - 4) ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING IR BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
 - 5) FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
 - 6) LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 - 7) DURING THE COURSE OF CONSTRUCTION, SAFETY & PROTECTION OF THE PROPOSED WORK AND SAFETY & PROTECTION OF THE RUNNING TRAIN ON THE EXISTING TRACK IS TO BE ENSURED BY THE CONTRACTOR.
 - 8) EXCAVATION / DISMANTLING OF ANY PORTION OF EXISTING BRIDGE OR ANY ELEMENT OF EXISTING PERMANENT WAY OR ANY WORK AFFECTING THE SAFETY OF THE EXISTING BRIDGE / PERMANENT WAY OR SAFETY OF THE RUNNING TRAINS WILL REQUIRE THE PRIOR WRITTEN APPROVAL OF THE ENGINEER/EMPLOYER.
- FOUNDATION**
- 1) SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE DESIGN OF STRUCTURES.
- GEO-TECHNICAL**
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL INVESTIGATION REPORT IN DATA BOOK 2/2.
 - 2) GEO-TECHNICAL BORE HOLE DATA REFERRED IN GAD IS INDICATIVE ONLY.
 - 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE IF REQUIRED.



Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :
Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE RUB 04
SABARMATI SOUTH-SANAND &
SABARMATI SOUTH-GORAGHUMA
CONNECTING LINE

Drawing Number :
NKC-CTS-RUB-AHM-SSS-SSG-00007 (SHEET 1 OF 2)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM AHMEDABAD
Drawn By : S. Salamuddin
Checked By : M. N. Ahmad
Approved By : H. Kawahara
Date : 30th, Sept, 2012
Date : 1st, Oct, 2012
Date : 3rd, Oct, 2012



NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Sec. No.	Structure Chainage	Proposed Bridge No.	Formation Level (m)	Road Level RL (m)	Ground Level (m)	Type of Structure	Structure configuration	No. of tracks		Skew Angle	Type of Crossing	Box Configuration								Return Wall				
								Proposed for DFCC	Total No. of tracks Proposed for DFCC			n	W (m)	H (m)	T1 (m)	T2 (m)	A (m)	B (m)	Barrel Length-Z (m)	FILL (m)	TOP LVL (m)	FDN LVL (m)	Height L (m)	Length M (m)
6 - (Sabarmati South-Sanand Connecting Line)	1660	SSS-1	45.021	40.771	40.902	RUB-Minor	RCC Box	2	3	-	Road	1	4.00	3.70	0.450	0.450	0.6	0.2	20.650	0.100	45.02	38.771	6.15	6.179
6 - (Sabarmati South-Goraghuma Connecting Line)	1660	SSG-1	45.342	40.902	40.902	RUB-Minor	RCC Box	1		-	Road													
6 - (Sabarmati South-Sanand Connecting Line)	2220	SSS-4	43.117	38.867	39.223	RUB-Minor	RCC Box	2	3	-	Road	1	4.00	3.70	0.450	0.450	0.6	0.2	20.650	0.100	43.12	36.867	6.15	5.841
6 - (Sabarmati South-Goraghuma Connecting Line)	2220	SSG-4	43.438	38.827	38.827	RUB-Minor	RCC Box	1		-	Road													
6 - (Goregama-Sabarmati North Connected Line)	3807	GSN - 8	44.296	40.041	40.761	RUB-Minor	RCC Box	1	1	-	Road	1	4.00	3.70	0.450	0.450	0.6	0.2	8.670	0.105	44.30	38.041	6.15	5.302

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(iv) Berm of 1.5 m width shall be provided on the slope of every 6 m height.
(v) Barrel Length may vary as per site condition.

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder



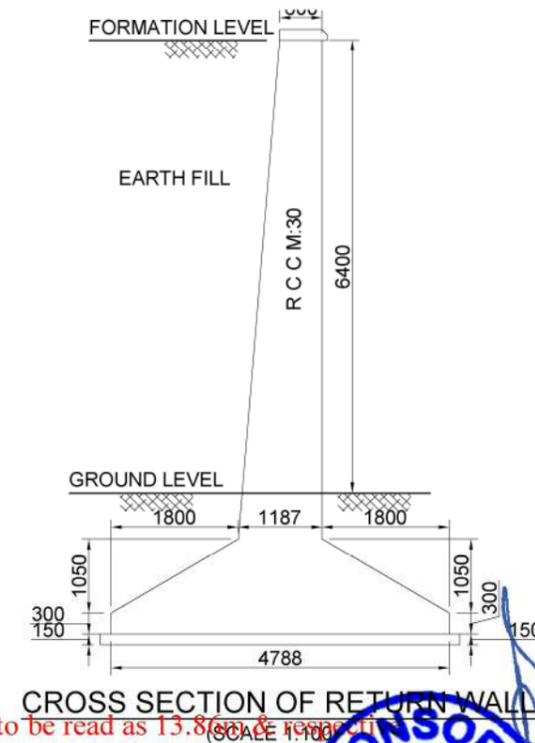
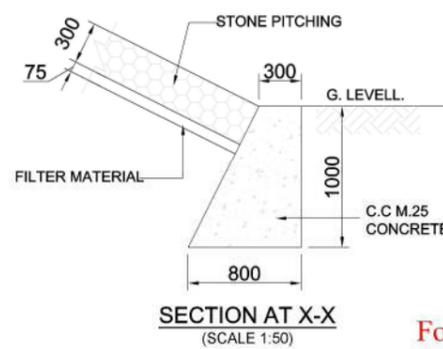
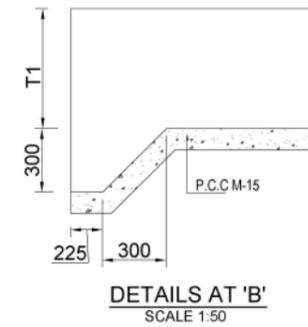
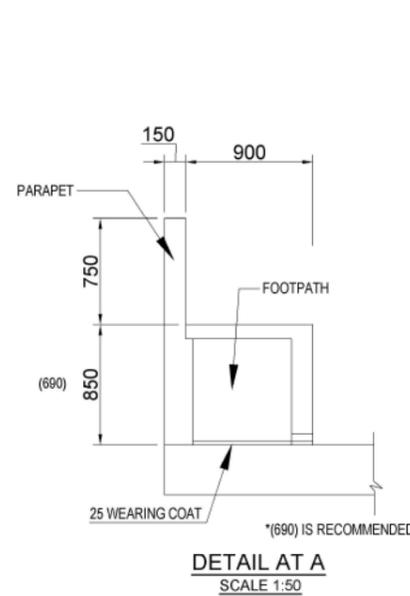
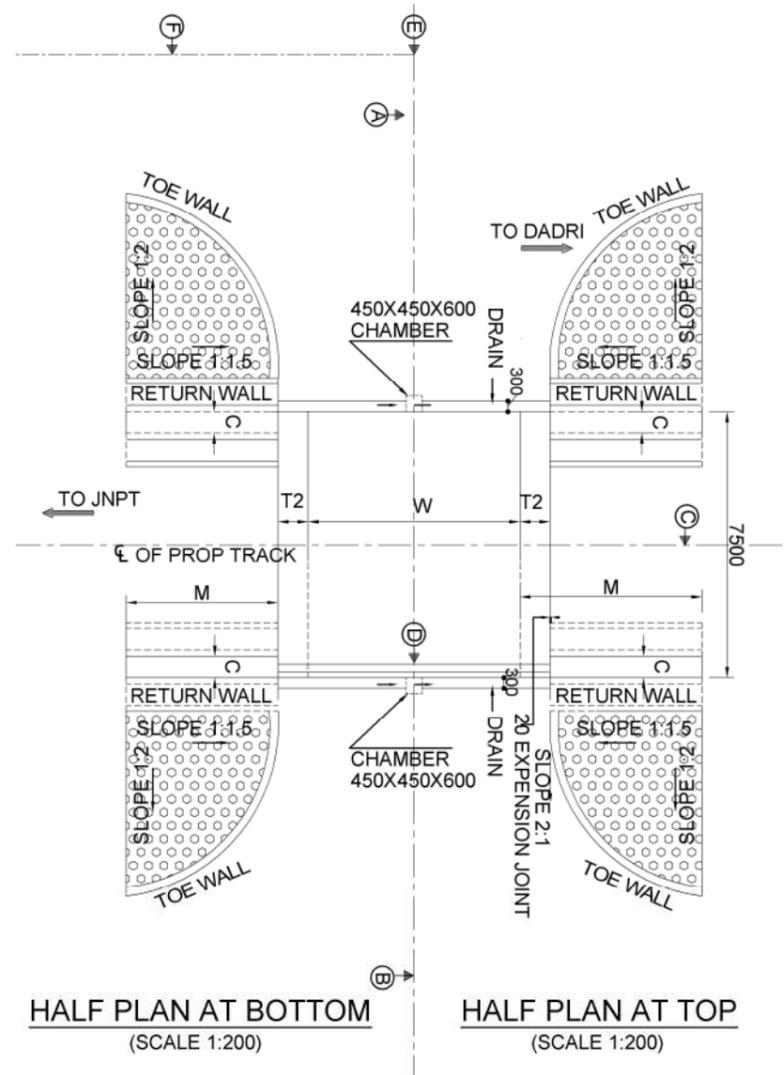
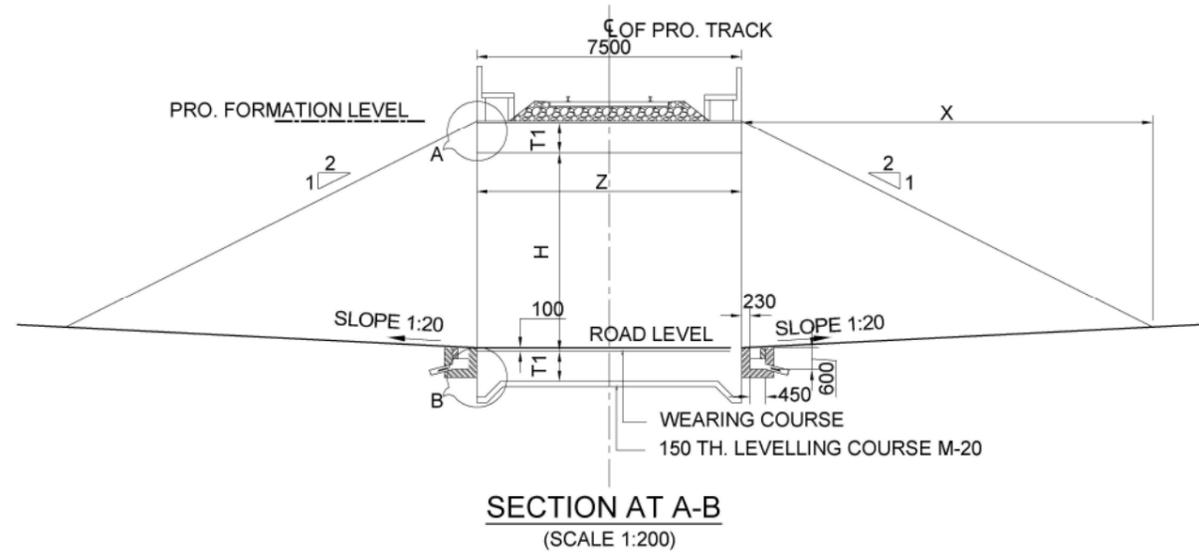
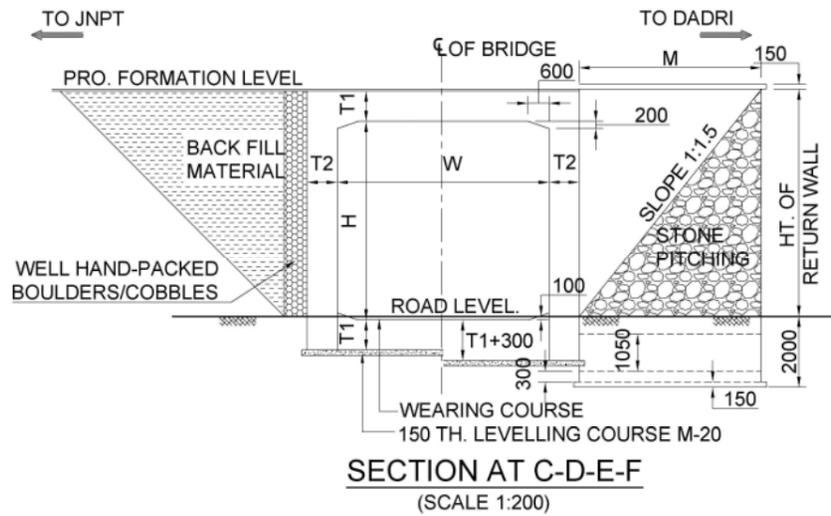
Project Title :
**Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)**

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
**GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE RUB 04
SABARMATI SOUTH-SANAND &
SABARMATI SOUTH-GORAGHUMA
CONNECTING LINE**

Drawing Number :
NKC -CTS -RUB -AHM-SSS-SSG -00007 (SHEET 2 OF 2)
Scale : **AS SHOWN**
Reference : **GAD PREPARED BY CPM AHMEDABAD**
Drawn By : S. Salamuddin | Checked By : M. N. Ahmad | Approved By : H. Kawahara
Date : 30th, Sept, 2012 | Date : 1st, Oct, 2012 | Date : 3rd, Oct, 2012

NK Consortium
4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



Formation width of 13.5m to be read as 13.8m & remaining dimensions are to be corrected according by the Bidder

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- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL INVESTIGATION REPORT IN DATA BOOK 2/2.
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Project Title :
Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :
 Dedicated Freight Corridor Corporation of India
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE RUB 05
SABARMATI SOUTH-GORAGHUMA &
GORAGHUMA SABARMATI-NORTH
CONNECTING LINE

Drawing Number :
NKC-CTS-RUB-AHM-SSG-GSN-00008 (SHEET 1 OF 2)

Scale :
AS SHOWN

Reference :
GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin | Checked By : M. N. Ahmad | Approved By : H. Kawahara
Date : 30th, Sept, 2012 | Date : 1st, Oct, 2012 | Date : 3rd, Oct, 2012



4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Sec. No.	Structure Chainage	Proposed Bridge No.	FL (m)	Road Level (m)	Ground Level(m)	Type of Structure	Structure configuration	No. of tracks		Skew Angle	Type of Crossing	Box Configuration								Return Wall				
								Proposed for DFCC	Total No. of tracks Proposed for DFCC			n	W (m)	H (m)	T1 (m)	T2 (m)	A (m)	B (m)	Barrel Length-Z (m)	FILL(m)	TOP LVL (m)	FDN LVL (m)	Height L(m)	Length M(m)
6 - (Sabarmati South-Goraghuma Connecting Line)	2875	SSG-5	41.976	37.726	41.691	RUB-Minor	RCC Box	1	1	30°	Road	1	5.50	3.70	0.550	0.550	0.6	0.2	7.500	0.000	41.98	35.726	6.25	6.375
6 - (Sabarmati South-Goraghuma Connecting Line)	3375	SSG-8	41.781	37.531	41.694	RUB-Minor	RCC Box	1	1	-	Road	1	5.50	3.70	0.550	0.550	0.6	0.2	7.500	0.000	41.78	35.531	6.25	6.375
6 - (Sabarmati South-Goraghuma Connecting Line)	4404	SSG-10	41.649	37.399	41.101	RUB-Minor	RCC Box	1	1	-	Road	1	5.50	3.70	0.550	0.550	0.6	0.2	7.500	0.000	41.65	35.399	6.25	6.375
6 (Goreguma-Sabarmati North Connected Line)	1600	GSN-2	41.665	37.415	40.139	RUB-Minor	RCC Box	1	1	-	Road	1	5.50	3.70	0.550	0.550	0.6	0.2	7.500	0.000	41.67	35.415	6.25	6.375
6 (Goreguma-Sabarmati North Connected Line)	2626.09	GSN-4	41.781	37.531	41.302	RUB-Minor	RCC Box	1	1	-	Cart Track	1	5.50	3.70	0.550	0.550	0.6	0.2	7.500	0.000	41.78	35.531	6.25	6.375
6 (Goreguma-Sabarmati North Connected Line)	3121.57	GSN-7	41.965	37.715	41.424	RUB-Minor	RCC Box	1	1	-	Cart Track	1	5.50	3.70	0.550	0.550	0.6	0.2	7.500	0.000	41.97	35.715	6.25	6.375

NOTE: (i) F.L. is based on the alignment drawing modified by NKC and should be reconfirmed in detailed design survey.
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Project Title :
**Dedicated Freight Corridor Project
 (Western Corridor Phase-1:
 Rewari - Vadodara Section)**

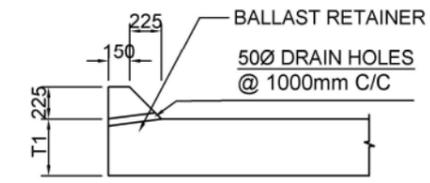
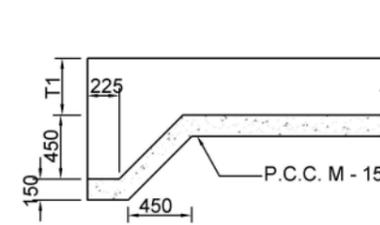
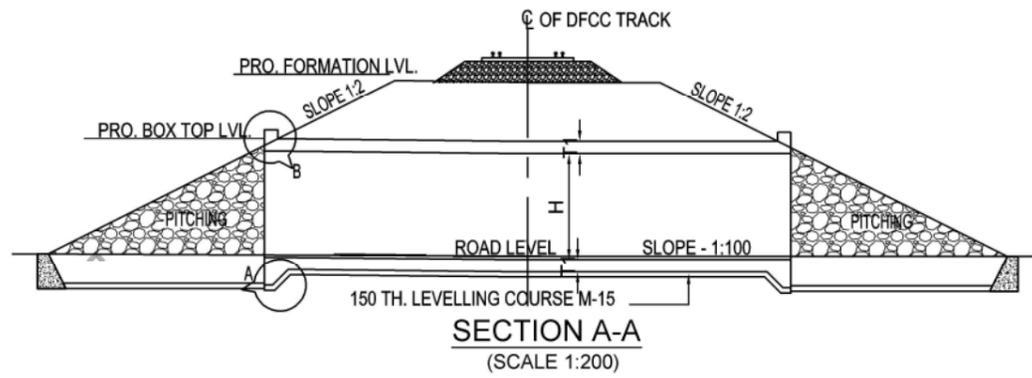
Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
 5th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA

Drawing Title :
**GENERAL ARRANGEMENT DRAWING
 FOR RCC BOX TYPE RUB 05
 SABARMATI SOUTH-GORAGHUMA &
 GORAGHUMA SABARMATI-NORTH
 CONNECTING LINE**

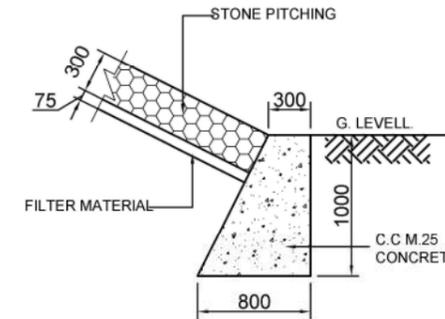
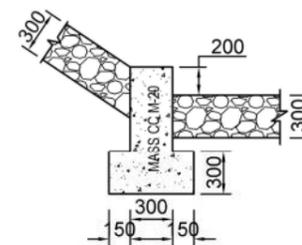
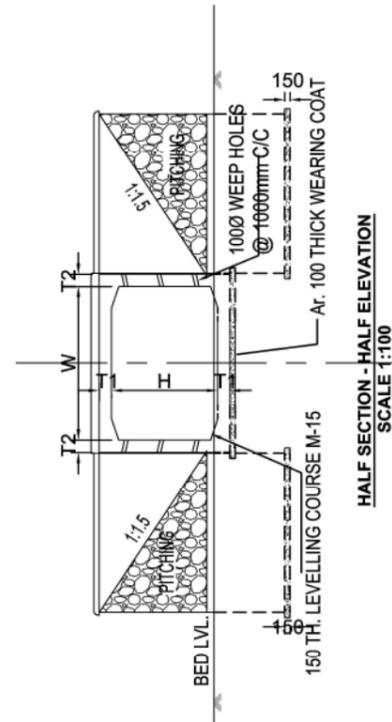
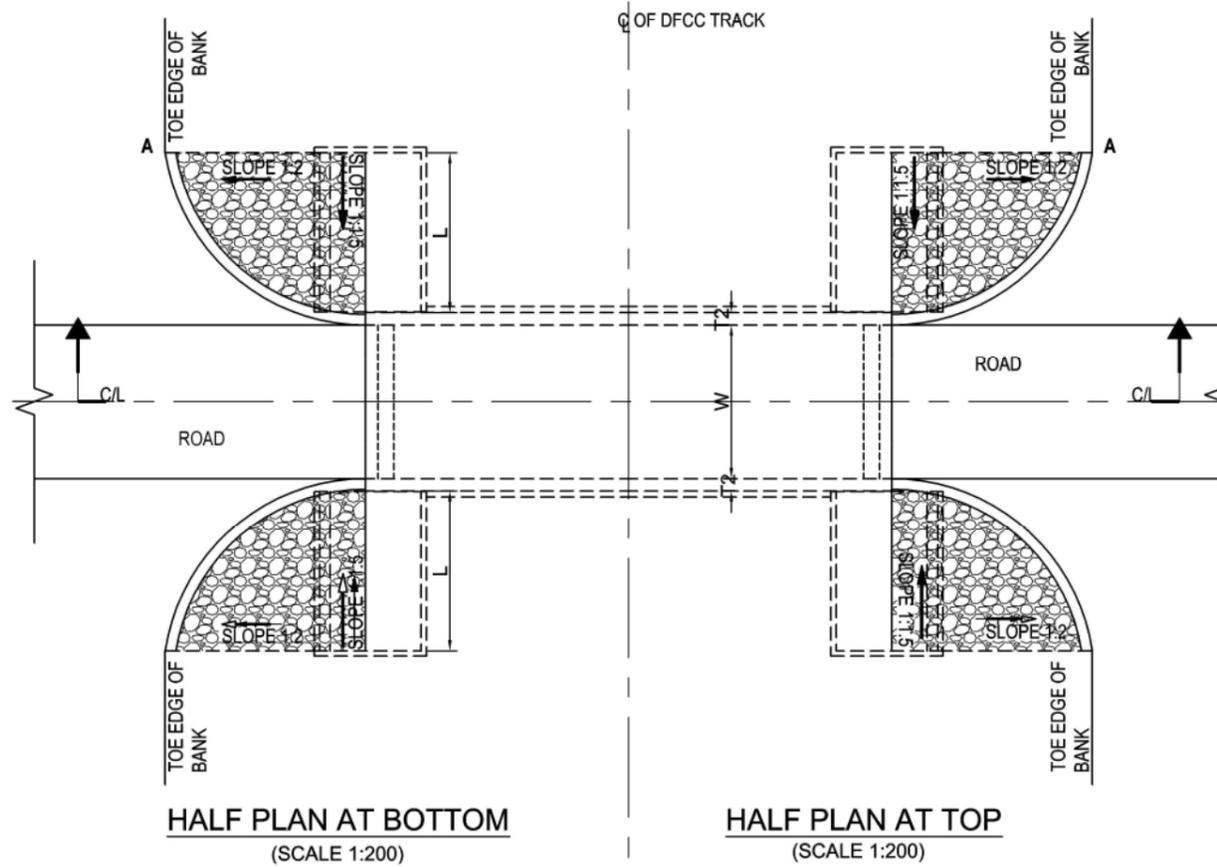
Drawing Number :
NKC-CTS-RUB-AHM-SSG-GSN-00008 (SHEET 2 OF 8)
 Scale :
AS SHOWN
 Reference :
GAD PREPARED BY CPM AHMEDABAD
 Drawn By : S. Salamuddin | Checked By : M. N. Ahmad | Approved By : H. Kawahara
 Date : 30th, Sept, 2012 | Date : 1st, Oct, 2012 | Date : 3rd, Oct, 2012



NK Consortium
 4th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA



DETAIL AT A & B
(SCALE 1:50)



SECTION OF TOE WALL
(SCALE 1:50)

SECTION OF CURTAIN/DROP WALL
(SCALE 1:50)

Formation width of 13.5m to be read as 15.86m & respective dimensions are to be corrected according by the Bidder

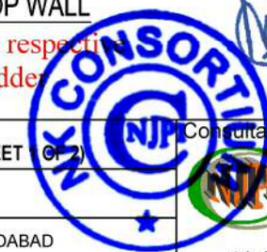
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Project Title :
Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
GENERAL ARRANGEMENT DRAWING
FOR RCC BOX TYPE RUB 06
SANAND SABARMATI NORTH
CONNECTING LINE

Drawing Number :
NKC-CTS-RUB-AHM-SSN-00009 (SHEET 01 OF 2)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM AHMEDABAD
Drawn By : S. Salamuddin
Checked By : M. N. Ahmad
Approved By : H. Kawahara
Date : 30th, Sept, 2012
Date : 1st, Oct, 2012
Date : 3rd, Oct, 2012



NK Consortium
4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Sec. No.	Structure Chainage	Proposed Bridge No.	Formation Level (m)	Ground Level (m)	Road Level (m)	Type of Structure	Structure configuration	No. of tracks		Skew Angle	Type of Crossing	Box Configuration								Return Wall				
								Proposed for DFCC	Total No. of tracks Proposed for DFCC			n	W (m)	H (m)	T1 (m)	T2 (m)	A (m)	B (m)	Barrel Length-Z (m)	FILL(m)	TOP LVL (m)	FDN LVL (m)	Height L(m)	Length M(m)
6- (Sanand-Sabarmati North Connecting Line)	750	SSN-1	44.001	39.232	39.232	RUB-Minor	RCC Box	1	1	-	Road	1	4.00	3.70	0.450	0.450	0.6	0.2	10.726	0.619	44.00	37.232	6.15	6.703

NOTE (i) F.L is based on the alignment drawing modified by NKC and should be reconfirmed in detailed design survey.

(ii) G.L is based on GAD prepared by CPM and should be reconfirmed in detailed design and survey.

(iii) Nos. of Track shall be confirmed from FLS & Station Yard Plan

(iv) Berm of 1.5 m width shall be provided on the slope of every 6 m height.

(v) Barrel Length may vary as per site condition.

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :
**Dedicated Freight Corridor Project
 (Western Corridor Phase-1:
 Rewari - Vadodara Section)**

Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
 5th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA

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 FOR RCC BOX TYPE RUB 06
 SANAND SABARMATI NORTH
 CONNECTING LINE**

Drawing Number :
NKC-CTS-RUB-AHM-SSN-00009 (SHEET 1 OF 2)

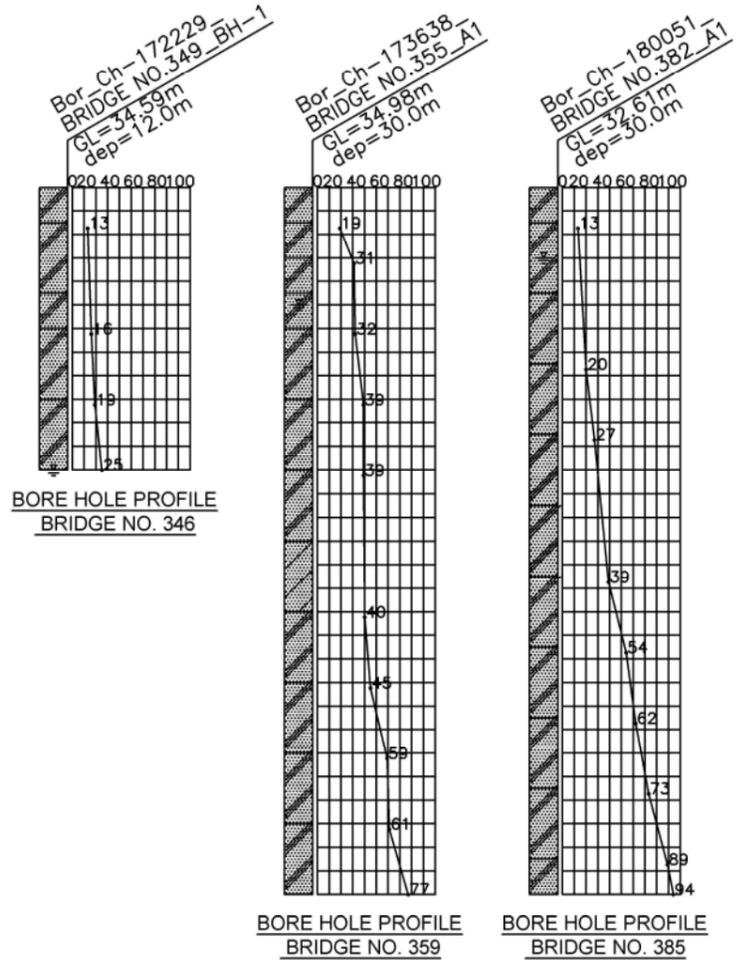
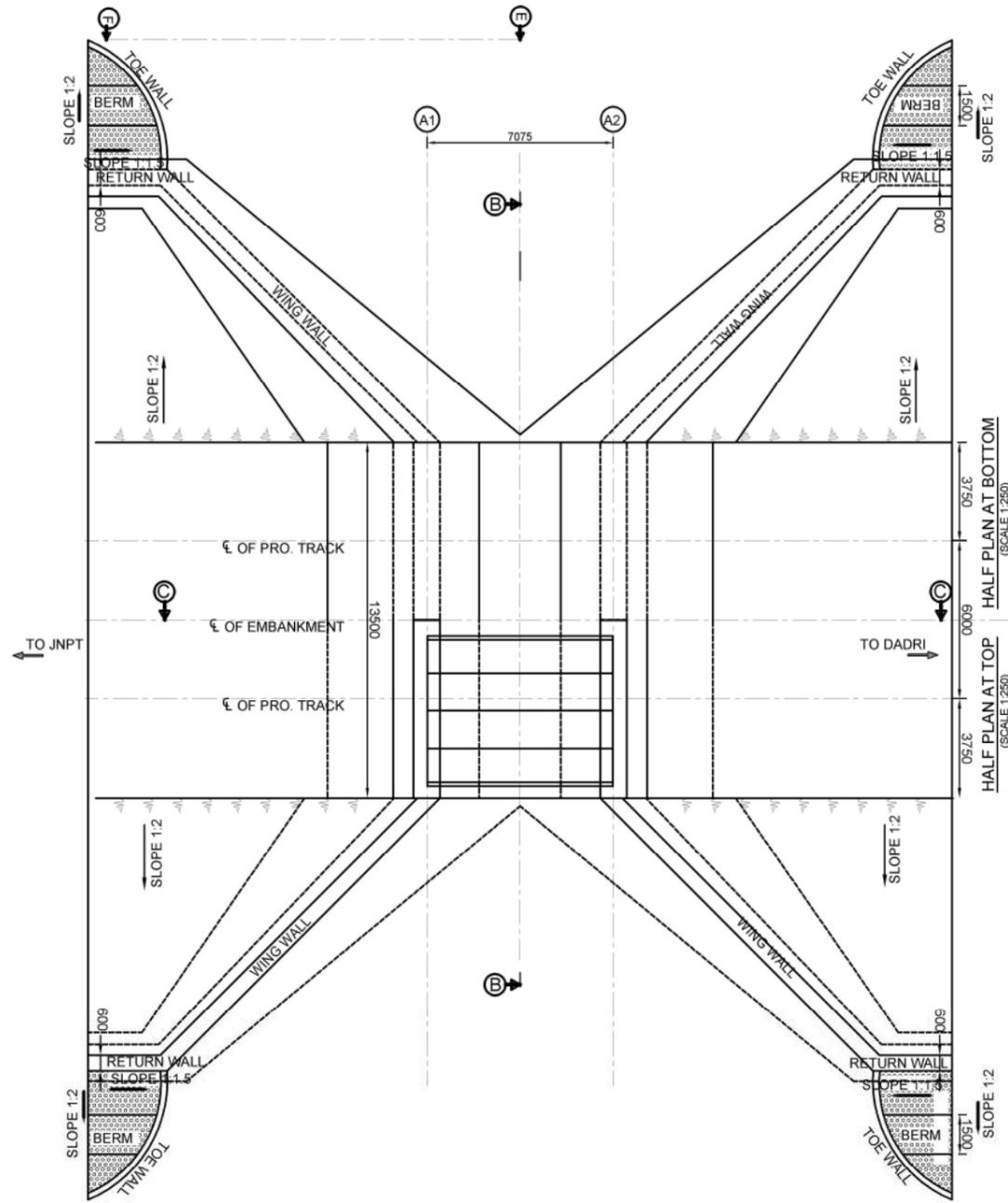
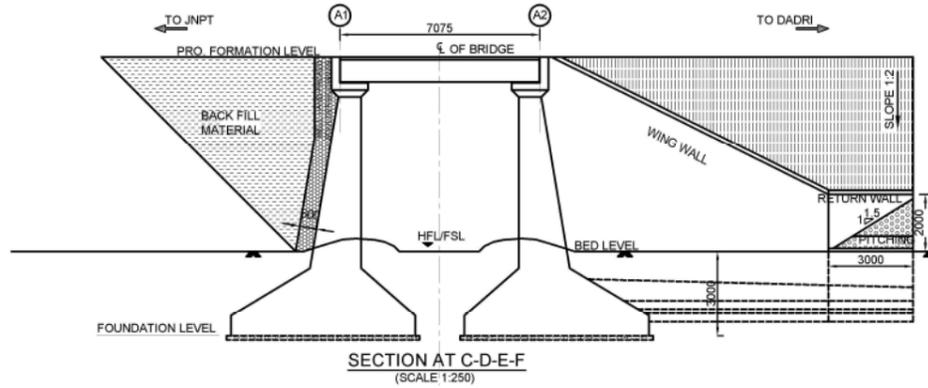
Scale :
AS SHOWN

Reference :
GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara
 Date : 30th , Sept , 2012 Date : 1st , Oct , 2012 Date : 3rd , Oct , 2012



NK Consortium
 4th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA



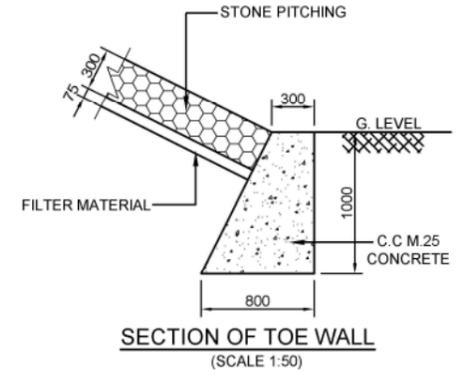
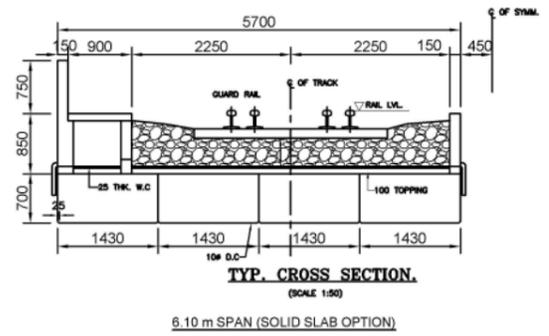
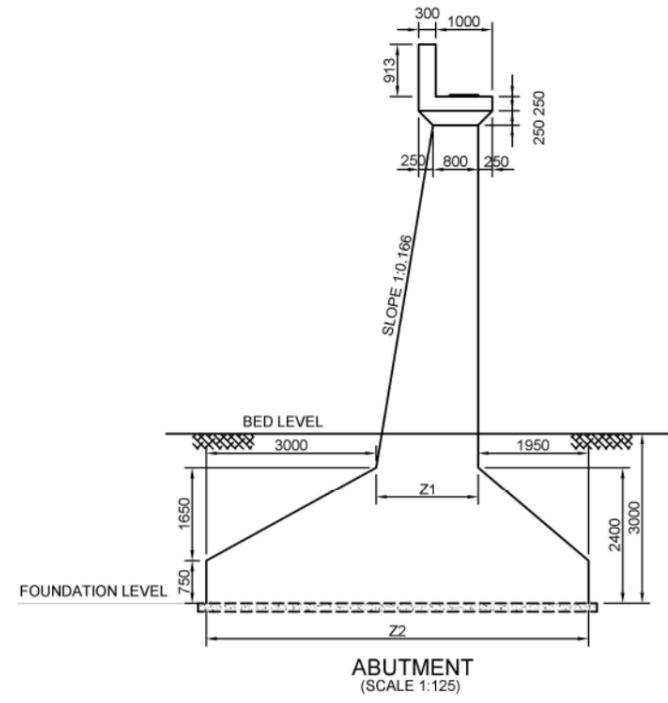
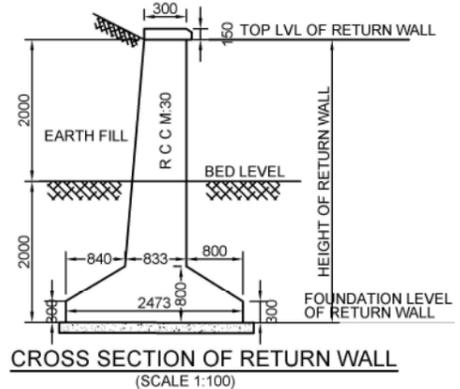
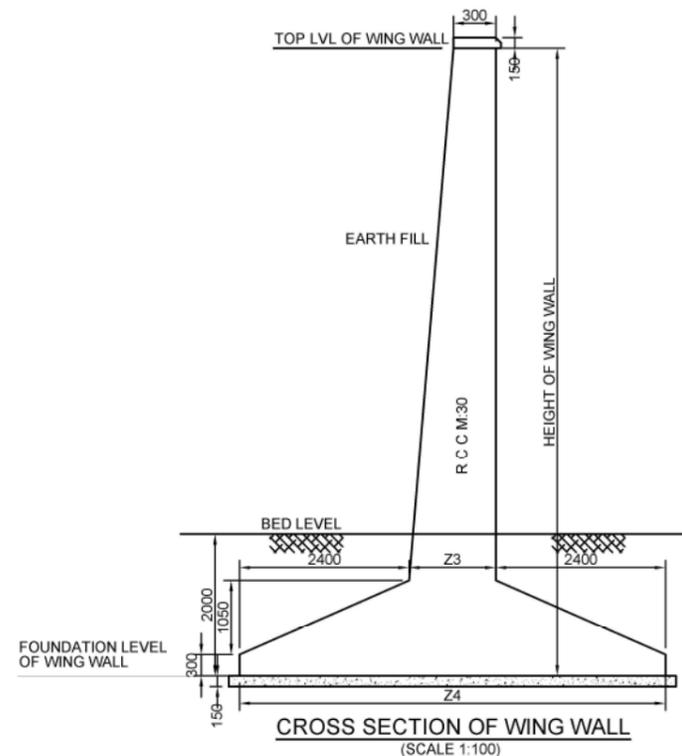
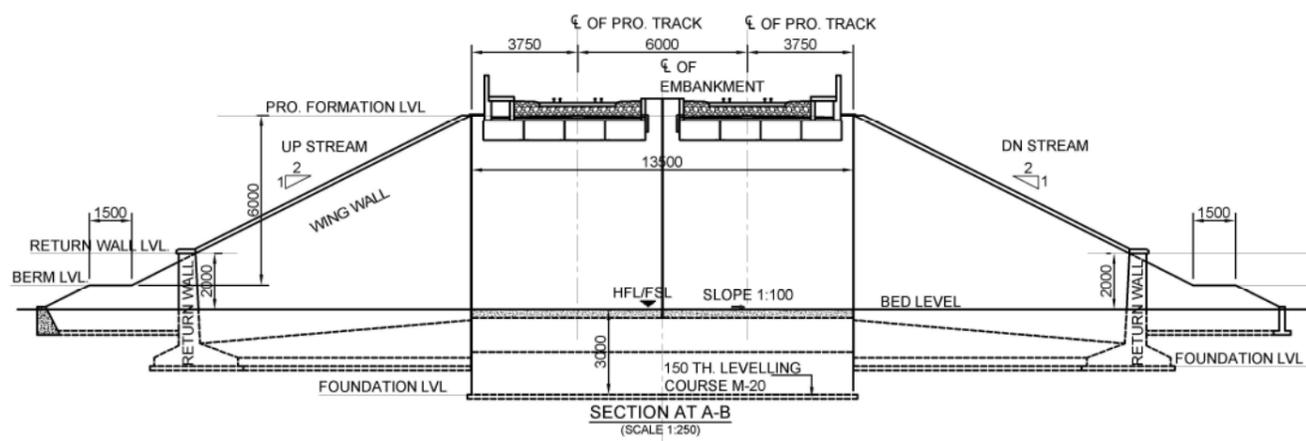
- GENERAL NOTES:**
- 1) ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
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 - 3) THIS GENERAL ARRANGEMENT DRAWING IS INDICATIVE AND IS MEANT ONLY FOR GUIDANCE FOR THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DEVELOPED & DESIGNED BY THE CONTRACTOR AS PER THE EMPLOYER'S REQUIREMENTS, SPECIFICATIONS AND SITE DIMENSIONS / CONDITIONS AND SHALL BE APPROVED BY ENGINEER / EMPLOYER.
 - 4) ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING IR BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
 - 5) FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
 - 6) LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 - 7) DURING THE COURSE OF CONSTRUCTION, SAFETY & PROTECTION OF THE PROPOSED WORK AND SAFETY & PROTECTION OF THE RUNNING TRAINS ON THE EXISTING IR TRACKS IS TO BE ENSURED BY THE CONTRACTOR. EXCAVATION / DISMANTLING OF ANY PORTION OF EXISTING BRIDGE OR ANY ELEMENT OF EXISTING PERMANENT WAY OR ANY WORK AFFECTING THE SAFETY OF THE EXISTING BRIDGE / PERMANENT WAY OR SAFETY OF THE RUNNING TRAINS WILL BE CARRIED OUT WITH THE PRIOR WRITTEN APPROVAL OF THE ENGINEER / EMPLOYER.
- SUPERSTRUCTURE & SUBSTRUCTURE**
- 1) SUPERSTRUCTURE DETAIL IS INDICATIVE ONLY AND SHOULD BE DESIGNED AS PER CODAL PROVISION.
 - 2) SUBSTRUCTURE OF BRIDGE SHALL BE DESIGNED AS PER DFCCI LOADING (32.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO. (WITH LATEST CORRECTION SLIP).
 - 3) SUBSTRUCTURE SHALL BE DESIGNED TO TAKE CARE OF TEMPORARY STAGE LOADS ALSO.
 - 4) SUBSTRUCTURE OF THE BRIDGE SHALL BE DESIGNED AS PER THE SEISMIC ZONE FOR THE AREA.
 - 5) SEISMIC ARRANGEMENT (RESTRAINER) SHALL BE PROVIDED IN SUBSTRUCTURE AS PER SEISMIC FORCES.
- FOUNDATION**
- 1) SCOUR LEVEL SHALL BE AS PER IRS SUB STRUCTURE & FOUNDATION CODE.
 - 2) FOUNDATION LEVEL OF BRIDGE SHALL BE BELOW THE SCOUR LEVEL.
 - 3) SETTLEMENT OF FOUNDATION SHALL BE CHECKED SO THAT IT IS WITHIN ACCEPTABLE LIMIT OF TOTAL & DIFFERENTIAL SETTLEMENTS AS PER CLAUSE 6.1 OF IRS. BRIDGE SUB STRUCTURE & FOUNDATION CODE.
 - 4) SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE DESIGN OF STRUCTURES IF REQUIRED.
- GEO-TECHNICAL**
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT IN DATA BOOK 22.
 - 2) GEO-TECHNICAL BORE HOLE DATA REFERRED IN GAD IS INDICATIVE ONLY.
 - 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE.

LEGEND:

SDR	GW	MH	SP
CI-CH	GP	MI	SP-SM
CL	GP-GM	ML	SW
CL-ML	GM	SC	SW-SM
CI	GM-GC	SM	WR
CH	GW-GM	SM-SC	SR

Formation width of 13.5m to be read as 13.8m & respective dimensions are to be corrected according by the Bidder

<p>Project Title : Dedicated Freight Corridor Project (Western Corridor Phase-1: Rewari - Vadodara Section)</p>	<p>Client : DFCC Dedicated Freight Corridor Corporation of India (A GOVERNMENT OF INDIA UNDERTAKING) 5th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>	<p>Drawing Title : GENERAL ARRANGEMENT DRAWING FOR RCC BOX TYPE MINOR BRIDGE 04 SANAND SABARMATI NORTH CONNECTING LINE</p>	<p>Drawing Number : NKC -CTS -BRD -AHM -SSS -00010 (SHEET 1 OF 2)</p> <p>Scale : AS SHOWN</p> <p>Reference : GAD PREPARED BY CPM AHMEDABAD</p> <p>Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara Date : 30th, Sept, 2012 Date : 1st, Oct, 2012 Date : 3rd, Oct, 2012</p>	<p>NK Consortium 4th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>
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Sec. No.	Structure Chainage	Proposed Bridge No.	Formation Level (m)	Bed Level (m)	Ground Level (m)	HFL (m)	Type of Structure	Structure configuration	Total No. of tracks Proposed for DFCC	Skew Angle	Type of Crossing	Box Configuration								Return Wall				
												n	W (m)	H (m)	T1 (m)	T2 (m)	A (m)	B (m)	Barrel Length-Z (m)	FILL (m)	TOP LVL (m)	FDN LVL (m)	Height L (m)	Length M (m)
6 - (Sabarmati South-Sanand Connecting Line)	2610	SSS-5	41.791	39.441	40.209		Minor Bridge	RCC Box	2	30°	Drain	1	2.00	2.00	0.350	0.350	0.3	0.2	13.500	0.000	41.79	37.441	4.35	3.175

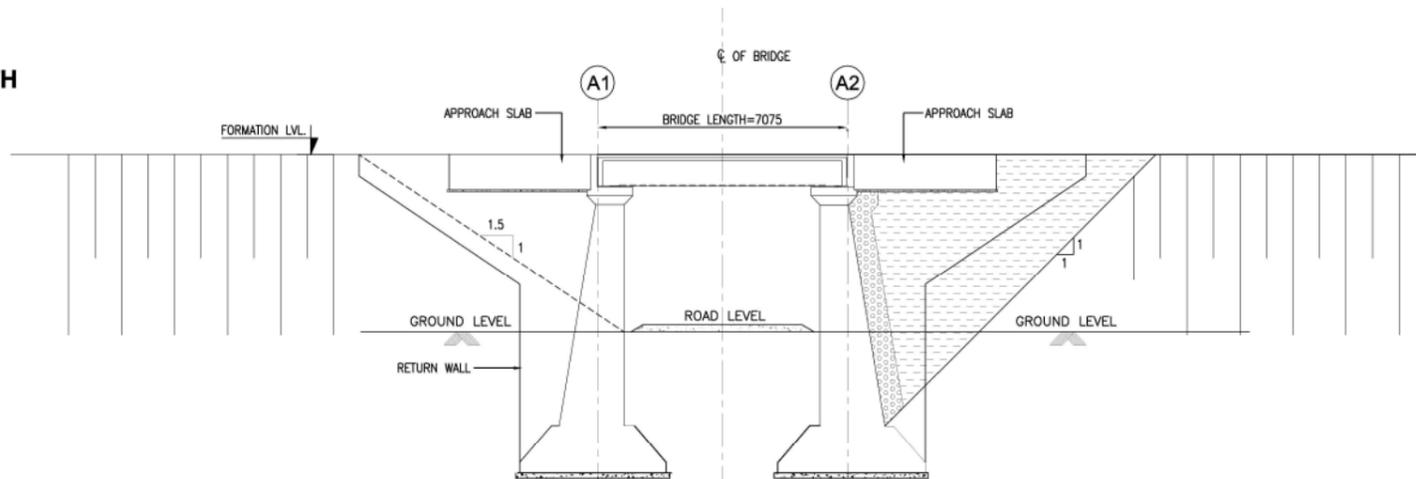
NOTE: (i) F.L. is based on the alignment drawing modified by NKC and should be reconfirmed in detailed design survey.
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Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

<p>Project Title : Dedicated Freight Corridor Project (Western Corridor Phase-1: Rewari - Vadodara Section)</p>	<p>Client : DFCC Dedicated Freight Corridor Corporation of India (A GOVERNMENT OF INDIA UNDERTAKING) 5th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>	<p>Drawing Title : GENERAL ARRANGEMENT DRAWING FOR RCC BOX TYPE MINOR BRIDGE 04 SANAND SABARMATI NORTH CONNECTING LINE</p>	<p>Drawing Number : NKC -CTS -BRD -AHM-SSS -00010 (SHEET 2 OF 2)</p> <p>Scale : AS SHOWN</p> <p>Reference : GAD PREPARED BY CPM AHMEDABAD</p> <p>Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara Date : 30th, Sept, 2012 Date : 1st, Oct, 2012 Date : 3rd, Oct, 2012</p>	<p>NK Consortium 4th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>
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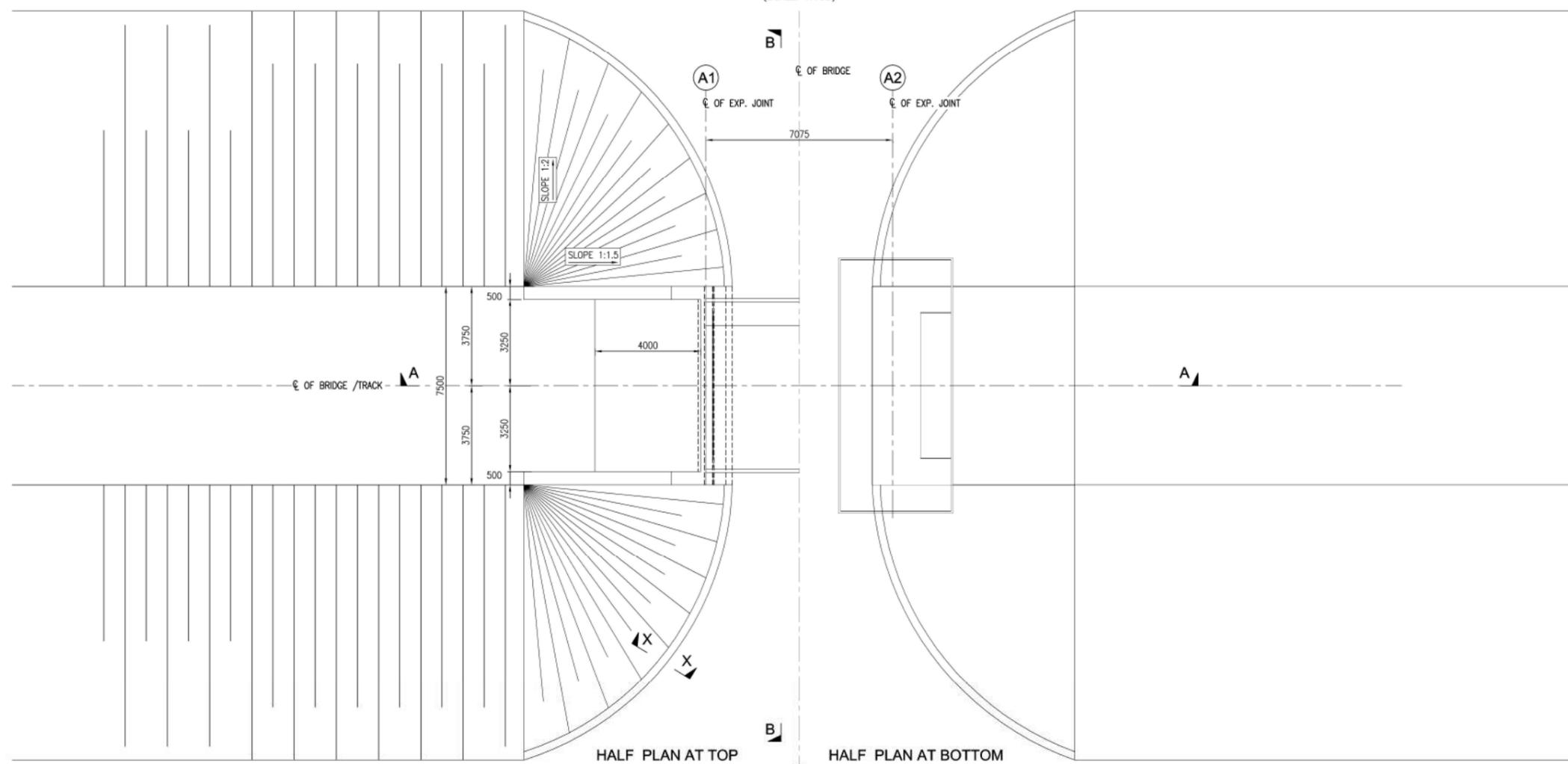
TO SABARMATI SOUTH

TO GORAGHUMA



SECTIONAL ELEVATION A - A

(SCALE 1:100)



PLAN

(SCALE 1:100)

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

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FOUNDATION

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GEO-TECHNICAL

- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL INVESTIGATION REPORT IN DATA BOOK 2/2.
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Project Title :

Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :



Dedicated Freight Corridor Corporation of India

(A GOVERNMENT OF INDIA UNDERTAKING)

5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :

GENERAL ARRANGEMENT DRAWING
FOR PSC SOLID SLAB TYPE RUB 01
SANAND SABARMATI NORTH &
GORAGHUMA SABARMATI-NORTH
CONNECTING LINE

Drawing Number :

NKC -CTS -BRD -AHM-SSN-GSN -00011 (SHEET 1 OF 2)

Scale :

AS SHOWN

Reference :

GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin

Checked By : M. N. Ahmad

Approved By : H. Kawahara

Date : 30th, Sept, 2012

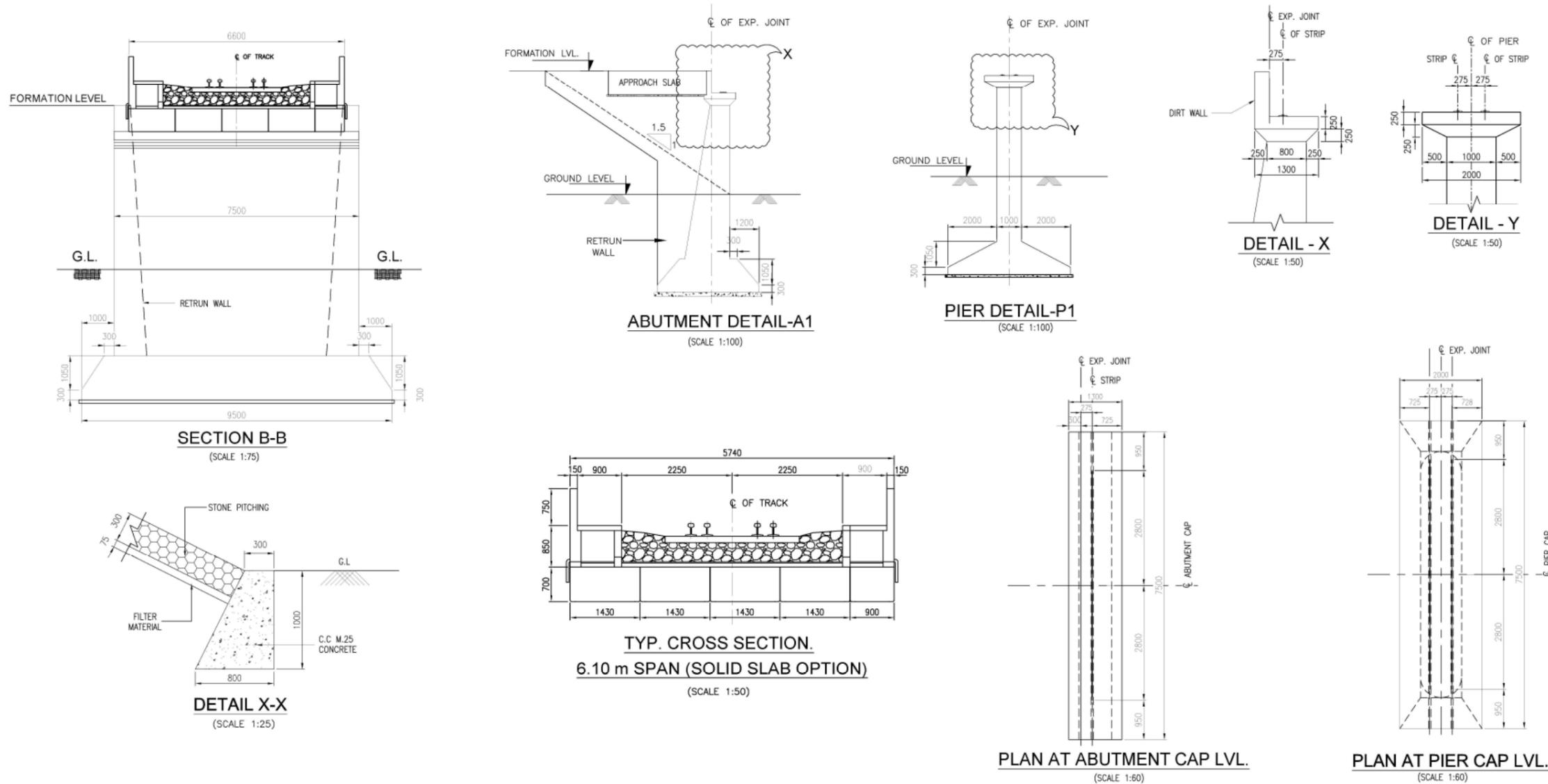
Date : 1st, Oct, 2012

Date : 3rd, Oct, 2012



NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



Sec. No.	Structure Chainage	Proposed Bridge No.	FL (m)	BL (m)	GL (m)	Proposed Span (m)	No. of tracks Proposed for DFCC	Type of Structure	Structure configuration	Type of Crossing	Return Wall			Wing Wall				Abutment				
											TOP LVL (m)	FDN LVL (m)	Height (m)	TOP LVL (m)	FDN LVL (m)	BERM LVL (m)	Height (m)	Length (m)	Z3(m)	Z4(m)	Z1(m)	Z2(m)
6 (Goreghuma-Sabarmati North Connecting Line)	4392.47	GSN-9	45.872	40.753	40.753	1 x 6.1m	1	RUB-Minor	PSC Solid Slab	Metalled Road	42.753	38.753	4.000	45.872	38.753	-	7.119	14.931	1.262	6.062	1.814	6.614
6- (Sanand-Sabarmati North Connecting Line)	1280.00	SSN-2	45.803	42.476	42.476	1 x 6.1m	1	RUB-Minor	PSC Solid Slab	Metalled Road	44.476	40.476	4.000	45.803	40.476	-	5.327	9.863	0.963	5.763	1.516	6.316

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Project Title :

Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :



Dedicated Freight Corridor Corporation of India
(A GOVERNMENT OF INDIA UNDERTAKING)

5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :

GENERAL ARRANGEMENT DRAWING
FOR PSC SOLID SLAB TYPE RUB 01
SANAND SABARMATI NORTH &
GORAGHUMA SABARMATI-NORTH
CONNECTING LINE

Drawing Number :

NKC-CTS-BRD-AHM-SSN-GSN-00011 (SHEET 2 OF 2)

Scale :

AS SHOWN

Reference :

GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin

Checked By : M. N. Ahmad

Approved By : H. Kawahara

Date : 30th, Sept, 2012

Date : 1st, Oct, 2012

Date : 3rd, Oct, 2012

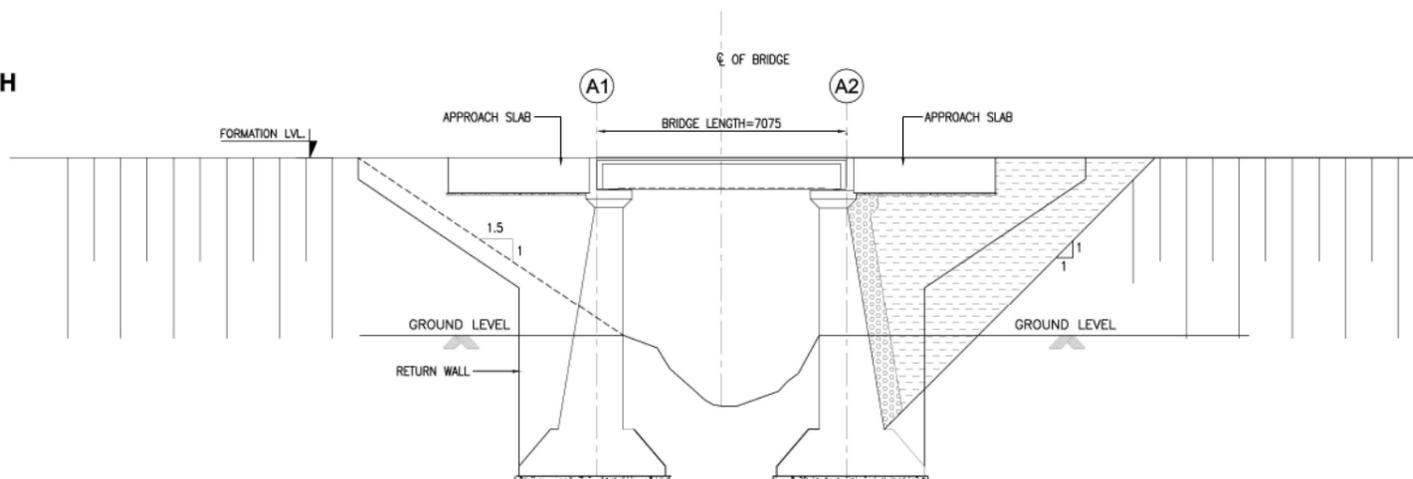


NK Consortium

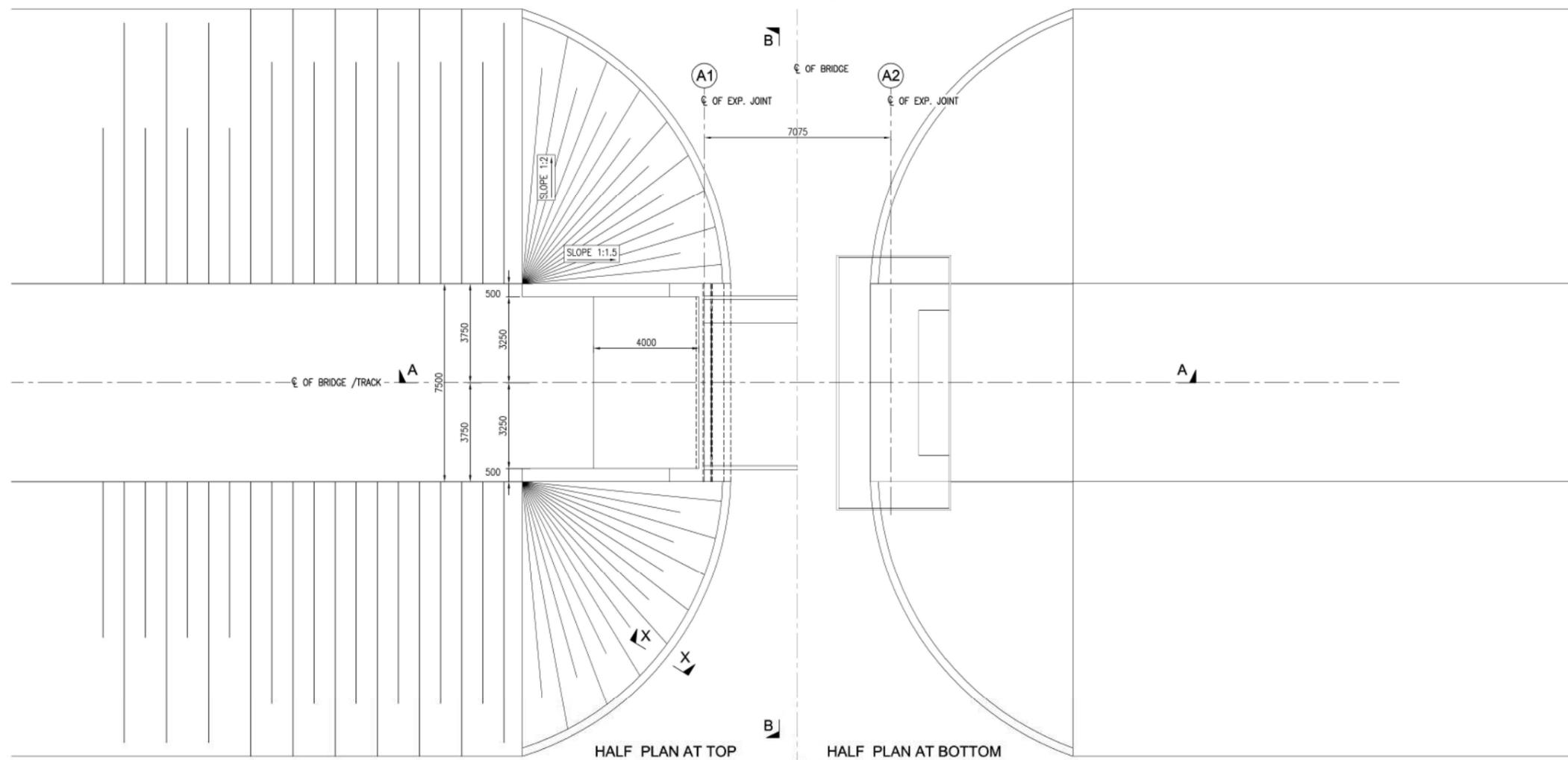
4th Floor, Pragati Maidan Metro Station Building,
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TO SABARMATI SOUTH

TO GORAGHUMA



SECTIONAL ELEVATION A - A
(SCALE 1:100)



PLAN
(SCALE 1:100)

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Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :



Dedicated Freight Corridor Corporation of India
(A GOVERNMENT OF INDIA UNDERTAKING)

5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :

GENERAL ARRANGEMENT DRAWING
FOR PSC SOLID SLAB TYPE MINOR
SANAND SABARMATI NORTH &
GORAGHUMA SABARMATI-NORTH
CONNECTING LINE

Drawing Number :

NKC-CTS-BRD-AHM-SSG-GSN-00012 (SHEET 1 OF 2)

Scale :

AS SHOWN

Reference :

GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin

Checked By : M. N. Ahmad

Approved By : H. Kawahara

Date : 30th, Sept, 2012

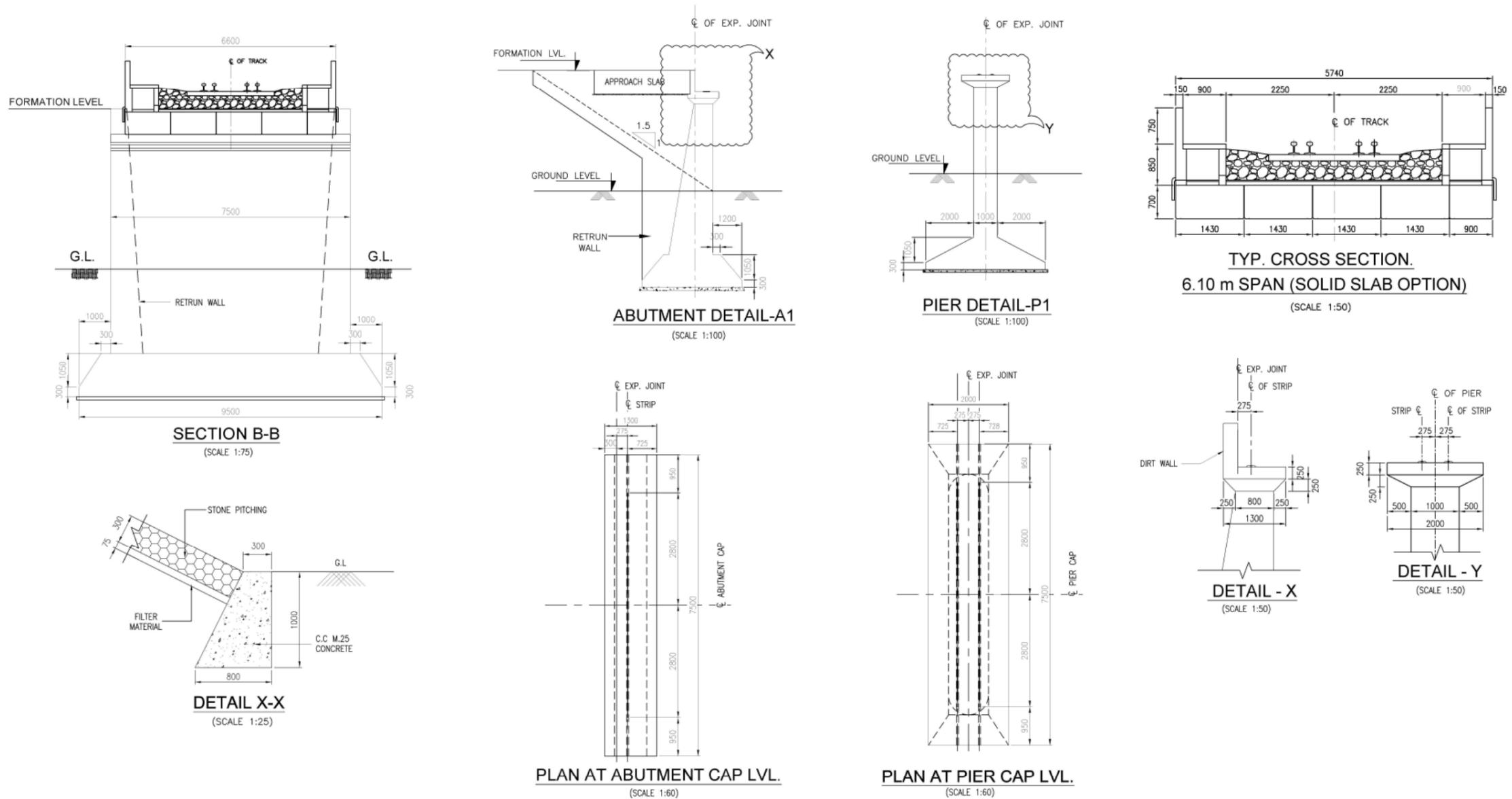
Date : 1st, Oct, 2012

Date : 3rd, Oct, 2012



NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
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TYP. CROSS SECTION.
6.10 m SPAN (SOLID SLAB OPTION)
 (SCALE 1:50)

DETAIL - X
 (SCALE 1:50)

DETAIL - Y
 (SCALE 1:50)

PLAN AT ABUTMENT CAP LVL.
 (SCALE 1:60)

PLAN AT PIER CAP LVL.
 (SCALE 1:60)

Sec. No.	Structure Chainage	Proposed Bridge No.	FL (m)	GL (m)	HFL/FSL (m)	Proposed Span (m)	No. of tracks	Type of Structure	Structure configuration	Type of Crossing	Return Wall			Wing Wall					Abutment			
											TOP LVL (m)	FDN LVL (m)	Height (m)	TOP LVL (m)	FDN LVL (m)	BERM LVL (m)	Height (m)	Length (m)	Z3(m)	Z4(m)	Z1(m)	Z2(m)
6 - (Sabarmati South-Goraghuma Connecting Line)	3875	SSG-9	43.673	41.924		1 x 6.1m	1	Minor Bridge	PSC Solid Slab	DRAIN	43.924	39.924	4.000	43.673	39.924	-	3.749	5.399	0.700	5.500	1.253	6.053
6 (Goreguma-Sabarmati North Connected Line)	2129	GSN-3	43.657	41.412		1 x 6.1m	1	Minor Bridge	PSC Solid Slab	DRAIN	43.412	39.412	4.000	43.657	39.412	-	4.245	6.802	0.783	5.583	1.335	6.135

NOTE

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 (Western Corridor Phase-1:
 Rewari - Vadodara Section)

Client :

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(A GOVERNMENT OF INDIA UNDERTAKING)
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Drawing Title :
GENERAL ARRANGEMENT DRAWING
 FOR PSC SOLID SLAB TYPE RUB 01
 SANAND SABARMATI NORTH &
 GORAGHUMA SABARMATI-NORTH
 CONNECTING LINE

Drawing Number :
NKC-CTS-BRD-AHM-SSG-GSN-00012 (SHEET 2 OF 2)

Scale :
AS SHOWN

Reference :
 GAD PREPARED BY CPM AHMEDABAD

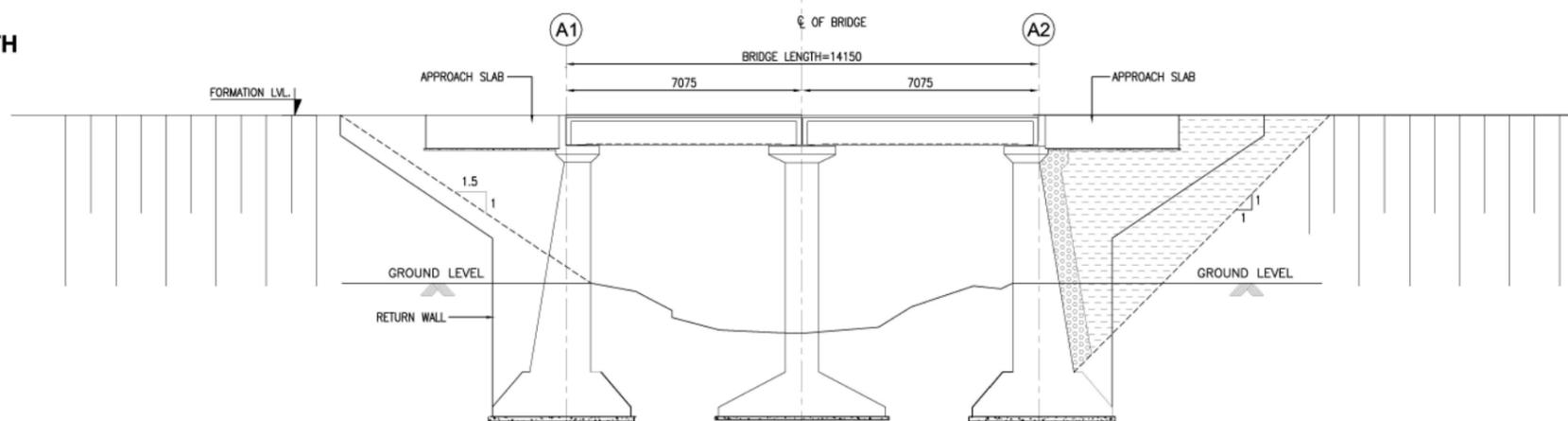
Drawn By : S. Salamuddin Checked By : M. N. Ahmad Approved By : H. Kawahara
 Date : 30th, Sept, 2012 Date : 1st, Oct, 2012 Date : 3rd, Oct, 2012



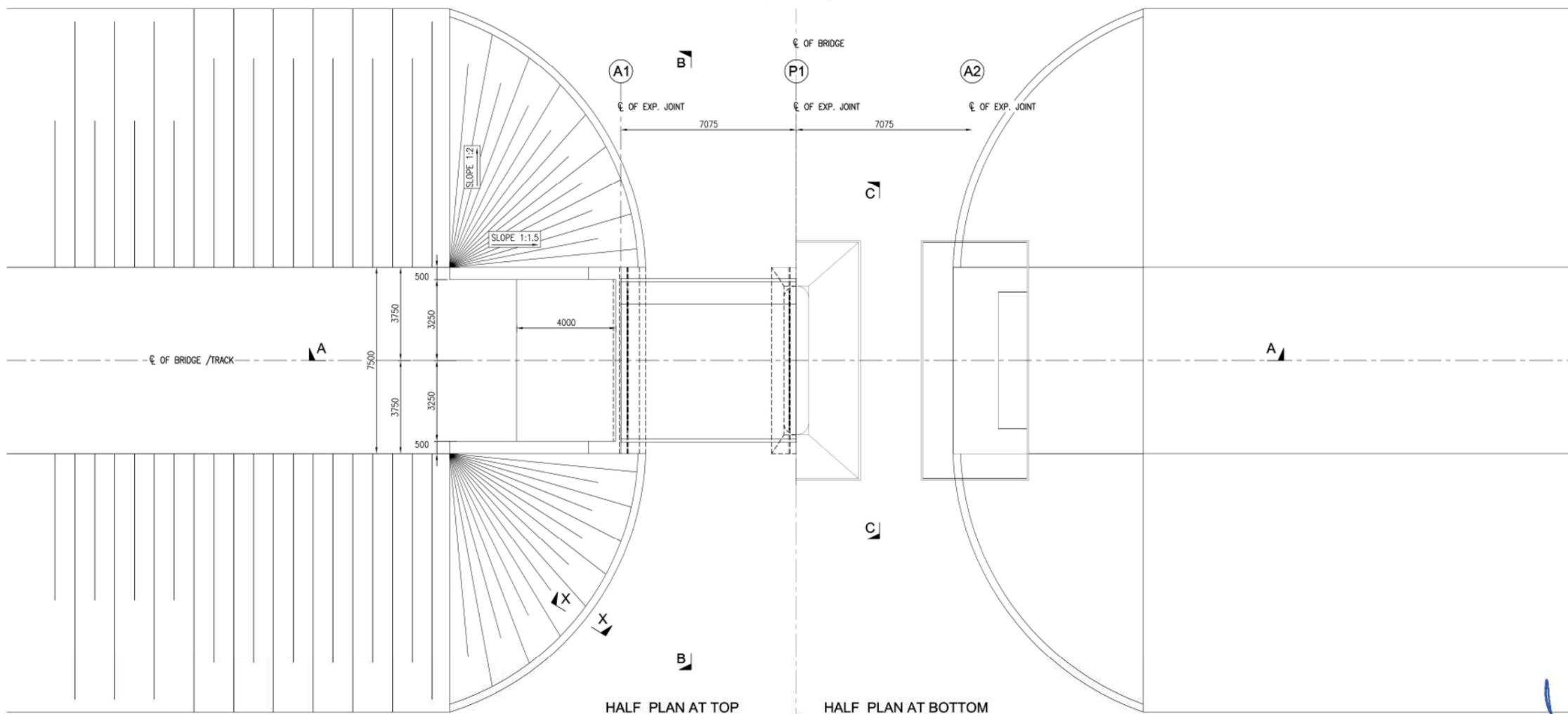
NK Consortium
 4th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA

TO SABARMATI SOUTH

TO GORAGHUMA



SECTIONAL ELEVATION A - A
(SCALE 1:100)



PLAN
(SCALE 1:100)

GENERAL NOTES:

- 1) ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
- 2) ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
- 3) THIS GENERAL ARRANGEMENT DRAWING IS INDICATIVE AND IS MEANT ONLY FOR GUIDANCE FOR THE BIDDERS. ALL THE ENGINEERING DETAILS ARE TO BE DEVELOPED & DESIGNED BY THE CONTRACTOR AS PER THE EMPLOYER'S REQUIREMENTS, SPECIFICATIONS, AND SITE DIMENSIONS / CONDITIONS AND SHALL BE APPROVED BY ENGINEER/EMPLOYER.
- 4) ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING IR BRIDGES ON THE PARRALEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
- 5) FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
- 6) LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
- 7) DURING THE COURSE OF CONSTRUCTION, SAFETY & PROTECTION OF THE PROPOSED WORK AND SAFETY & PROTECTION OF THE RUNNING TRAIN ON THE EXISTING TRACK IS TO BE ENSURED BY THE CONTRACTOR
- 8) EXCAVATION / DISMANTLING OF ANY PORTION OF EXISTING BRIDGE OR ANY ELEMENT OF EXISTING PERMANENT WAY OR ANY WORK AFFECTING THE SAFETY OF THE EXISTING BRIDGE / PERMANENT WAY OR SAFETY OF THE RUNNING TRAINS WILL REQUIRE THE PRIOR WRITTEN APPROVAL OF THE ENGINEER/EMPLOYER.

FOUNDATION

- 1) SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE DESIGN OF STRUCTURES.

GEO-TECHNICAL

- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT IN DATA BOOK 2/2.
- 2) GEO-TECHNICAL BORE HOLE DATA REFERED IN GAD IS INDICATIVE ONLY.
- 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE IF REQUIRED.

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :

Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :



Dedicated Freight Corridor Corporation of India
(A GOVERNMENT OF INDIA UNDERTAKING)

5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :

GENERAL ARRANGEMENT DRAWING
FOR PSC SOLID SLAB TYPE MINOR
SANAND SABARMATI NORTH &
GORAGHUMA SABARMATI-NORTH
CONNECTING LINE

Drawing Number :

NKC-CTS-BRD-AHM-SSG-GSN-00013 (SHEET 1 OF 2)

Scale :

AS SHOWN

Reference :

GAD PREPARED BY CPM AHMEDABAD

Drawn By : S. Salamuddin

Checked By : M. N. Ahmad

Approved By : H. Kawahara

Date : 30th, Sept, 2012

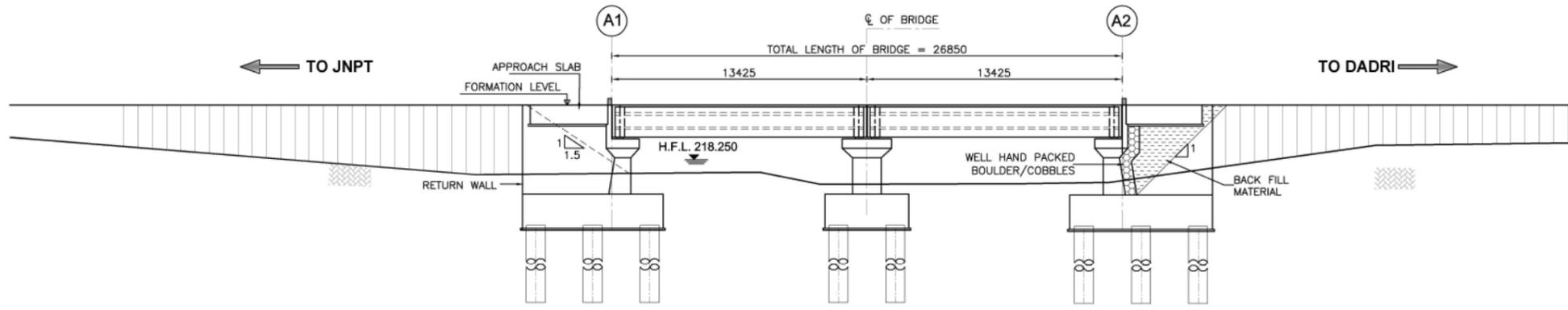
Date : 1st, Oct, 2012

Date : 3rd, Oct, 2012



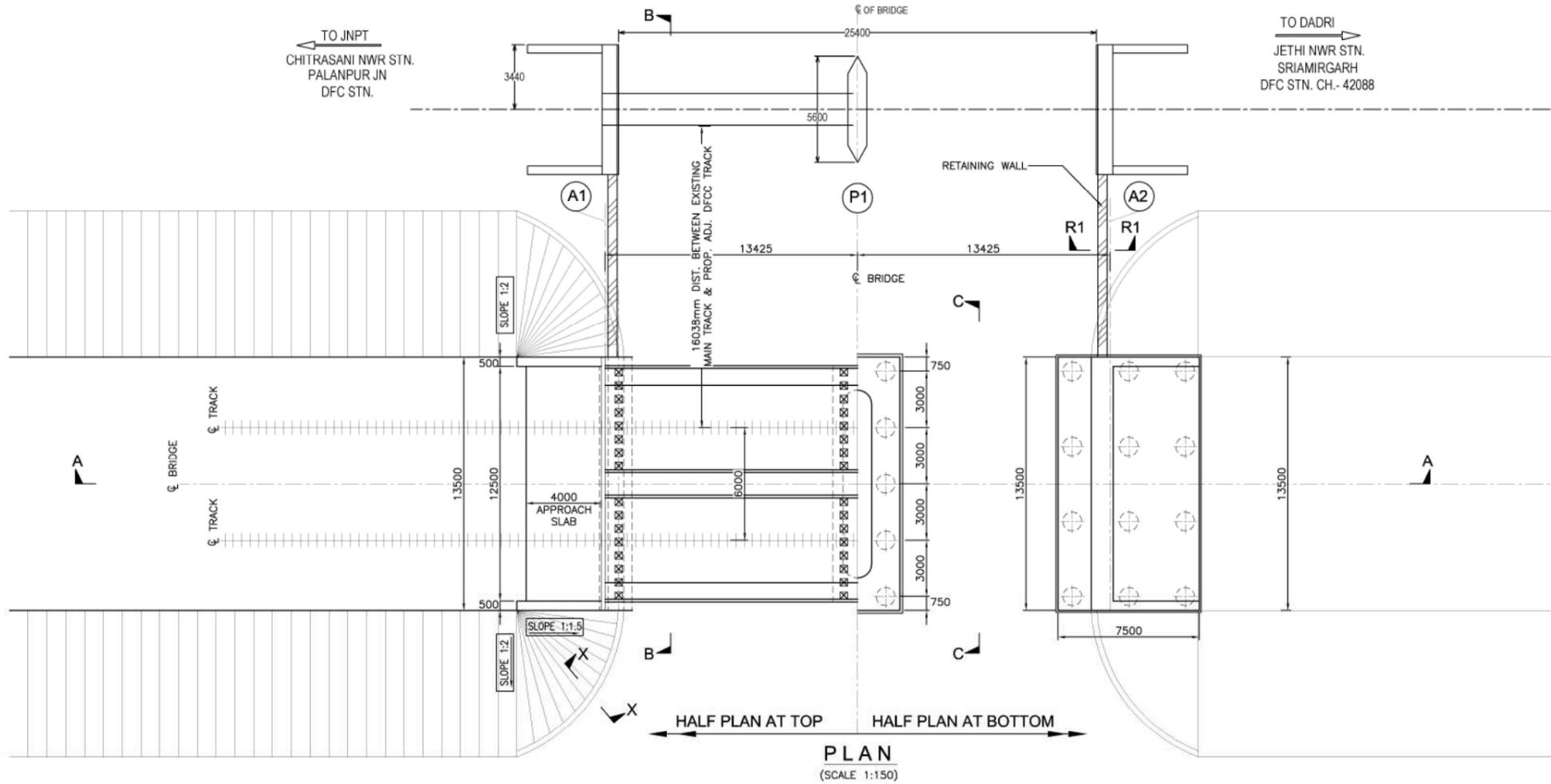
NK Consortium

4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



FORMATION LVL.(m)	18056.575	18060.0	18072.000	18080.0	18085.425	18100.0
GROUND LVL.(m)	217.769	221.425	216.250	221.395	217.223	221.329
CHAINAGE (m)	18056.575	18060.0	18072.000	18080.0	18085.425	18100.0

LONGITUDINAL SECTION A-A
(SCALE 1:150)



PLAN
(SCALE 1:150)

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
 3. ALL DIMENSIONS AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
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 5. ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
 6. FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
 7. LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 8. GROUND PROFILE SHOULD BE VERIFIED BEFORE EXECUTION.
- SUPERSTRUCTURE & SUBSTRUCTURE**
- 1) THE BRIDGE SHALL BE DESIGNED AS PER DFCCI LOADING (32.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO. (WITH LATEST CORRECTION SLIP).
 - 2) THE BRIDGE SHALL BE DESIGNED AS PER THE SEISMIC ZONE FOR THE AREA.
 - 3) BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - 4) WEEP HOLES SHALL BE OF PROVIDED IN RETURN WALL & ABUTMENT.
 - 5) SOLE FOUNDATION BOLTS SHALL BE PROVIDED IN CONSULTATION WITH THE CONTRACTOR OF EMP-4.
 - 6) RAILING EXPANSION JOINTS, BEARING, WEARING COAT, FOOTPATH, SERVICE DUCT, DRAINAGE SHALL BE PROVIDED AS PER SPECIFICATION.
 - 7) FOR INSPECTION OF BEARING / SUPERSTRUCTURE, SUITABLE ARRANGEMENT SHALL BE PROVIDED.
 - 8) FOR CHANGING OF BEARING SUITABLE ARRANGEMENT SHALL BE PROVIDED.
- GEO-TECHNICAL**
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT.
 - 2) GEO-TECHNICAL BORE HOLE DATA REFERRED IN GAD IS INDICATIVE ONLY.
 - 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE.

TABLE-1	
DETAILS	PROPOSED DFC
PACKAGE	3
SECTOR	9
BRIDGE NO.	848
CHAINAGE	18072.000
SPAN CONFIGURATION (C/C) OF PIER	2X12.2m
OVERALL SPAN (mm)	13375
EFFECTIVE SPAN (mm)	12575
CLEAR SPAN (mm)	12200
TYPE OF STRUCTURE	POST TENSIONED CONTINUOUS BOX
DEPTH OF SUPERSTRUCTURE (mm)	1780
TYPE OF CROSSING	DRAIN
BRIDGE (STRAIGHT/CURVE/SKEW)	STRAIGHT
FORMATION LEVEL R.L. (METER)	221.367
H.F.L. R.L. (METER)	218.250
BED LEVEL R.L. (METER)	216.250
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	-
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH SUITABLE RESTRAINTS)	FIX & FREE

APPROVED

DESIGNATION INITIALS OF APPROVING OFFICIALS

CPM / DFCCIL / AJMER	G.G.M. / DESIGN
DY. CPM / DFCCIL / AJMER	G.G.M. / ENGG.
APM / DFCCIL / AJMER	J.G.M. / DESIGN

SECTION	09
BRIDGE NO.	848
CHAINAGE	18072
KM (NWR)	636/2-3
SPAN	2X12.20 m (PRESTRESSED CONTINUOUS BOX)
DRG. NO.	CPM- All/EN/ BR-CAD/ SEC-09/848 (1 OF 3)

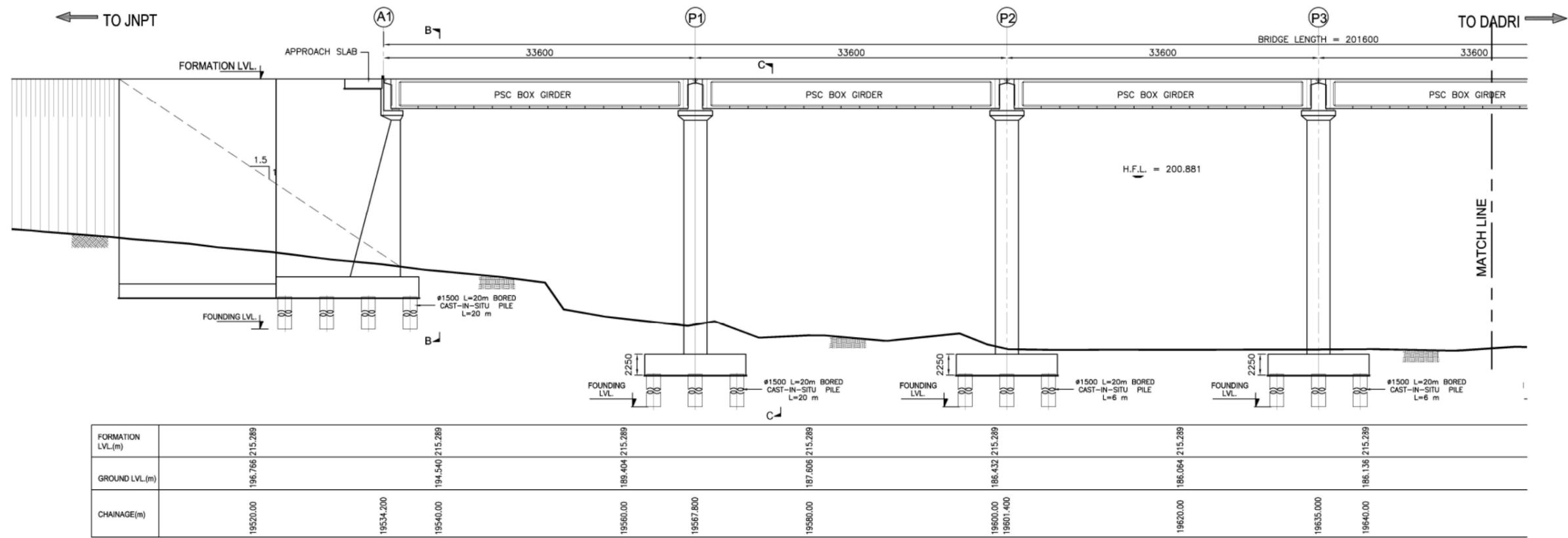
GENERAL ARRANGEMENT DRAWING
FOR CONSTRUCTION OF BRIDGE NO. 848(2X12.20m.)
PRESTRESSED CONTINUOUS BOX
BETWEEN SRIAMIRGARH - PALANPUR
JN, ON
DFCCIL - WESTERN CORRIDOR

THIS DRAWING WAS PREPARED BY
C E G (CONSULTANT) IN COLLABORATION WITH
REVIEWED AND APPROVED BY THE CONSULTANT
REFER TO THE DRAWING FOR THE PARTICULARS OF THE BRIDGE

CONSULTANT
Engineers
12, Moji Colony, Malviya Nagar Jaipur-17
Tel: +91-141-2520891, 2521899, 2520556
Fax: 2521899, E-Mail: ceg@cegindia.com

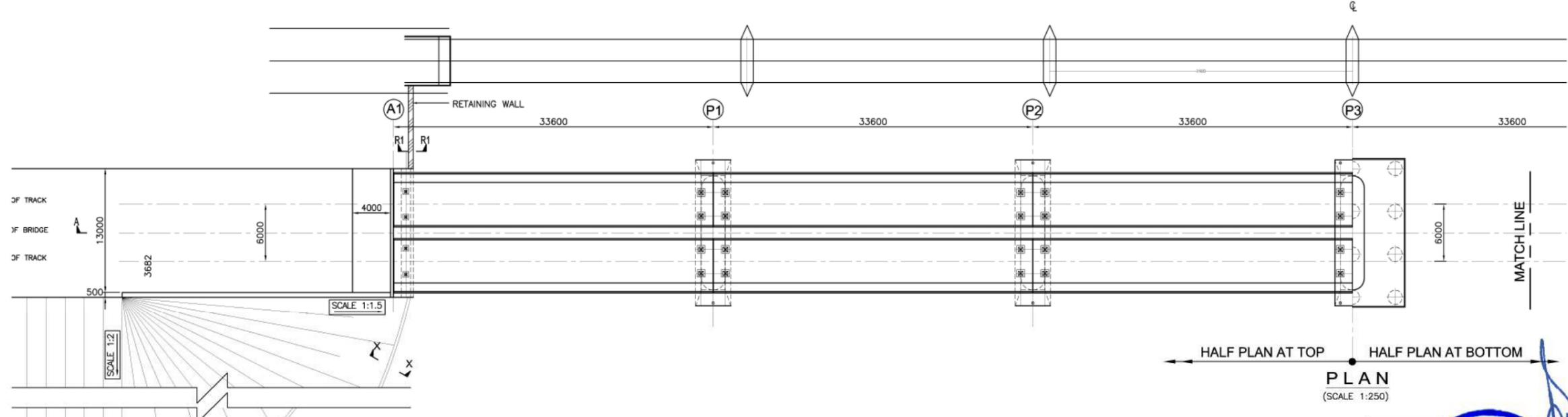
DATE: 01/06/2015 PROJECT NO: 10008
DRAWING NO.: CEG/DFCC-All/SECTION-9/AD/848

V-4-2-599



FORMATION LVL.(m)	19520.00	19534.200	19540.00	19560.00	19567.800	19580.00	19600.00	19601.400	19620.00	19635.000	19640.00	
GROUND LVL.(m)	196.766	215.289	194.540	215.289	189.404	215.289	187.606	215.289	186.432	215.289	186.064	215.289
CHAINAGE(m)	19520.00	19534.200	19540.00	19560.00	19567.800	19580.00	19600.00	19601.400	19620.00	19635.000	19640.00	

SECTION ELEVATION A-A (SCALE 1:250)



PLAN (SCALE 1:250)

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 - 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE.

TABLE-1

DETAILS	PROPOSED DFC
PACKAGE	3
SECTOR	9
BRIDGE NO.	845
CHAINAGE	19635.000
SPAN CONFIGURATION	6X30.50m
OVERALL SPAN (mm)	33500
EFFECTIVE SPAN (mm)	31110
CLEAR SPAN (mm)	30500
TYPE OF STRUCTURE	PSC BOX GIRDER
DEPTH OF SUPERSTRUCTURE (mm)	3280
TYPE OF CROSSING	RIVER
BRIDGE (STRAIGHT/CURVE/SKEW)	STRAIGHT
FORMATION LEVEL R.L. (METER)	215.289
H.F.L. R.L. (METER)	200.881
BD LEVEL R.L. (METER)	186.118
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	-
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH-SUITABLE RESTRAINTS)	FIX & FREE

APPROVED

DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM / DFCCIL / AJMER	G.G.M. / DESIGN
DY. CPM / DFCCIL / AJMER	G.G.M. / ENGG.
APM / DFCCIL / AJMER	J.G.M. / DESIGN

THIS DRAWING WAS PREPARED BY C.E.G. (CONSULTANT) ENGINEERS AND REVIEWED BY M.O. (SUPERVISOR) ENGINEER. REFER TO THE DRAWING FOR THE PARTICULARS OF THE BRIDGE.

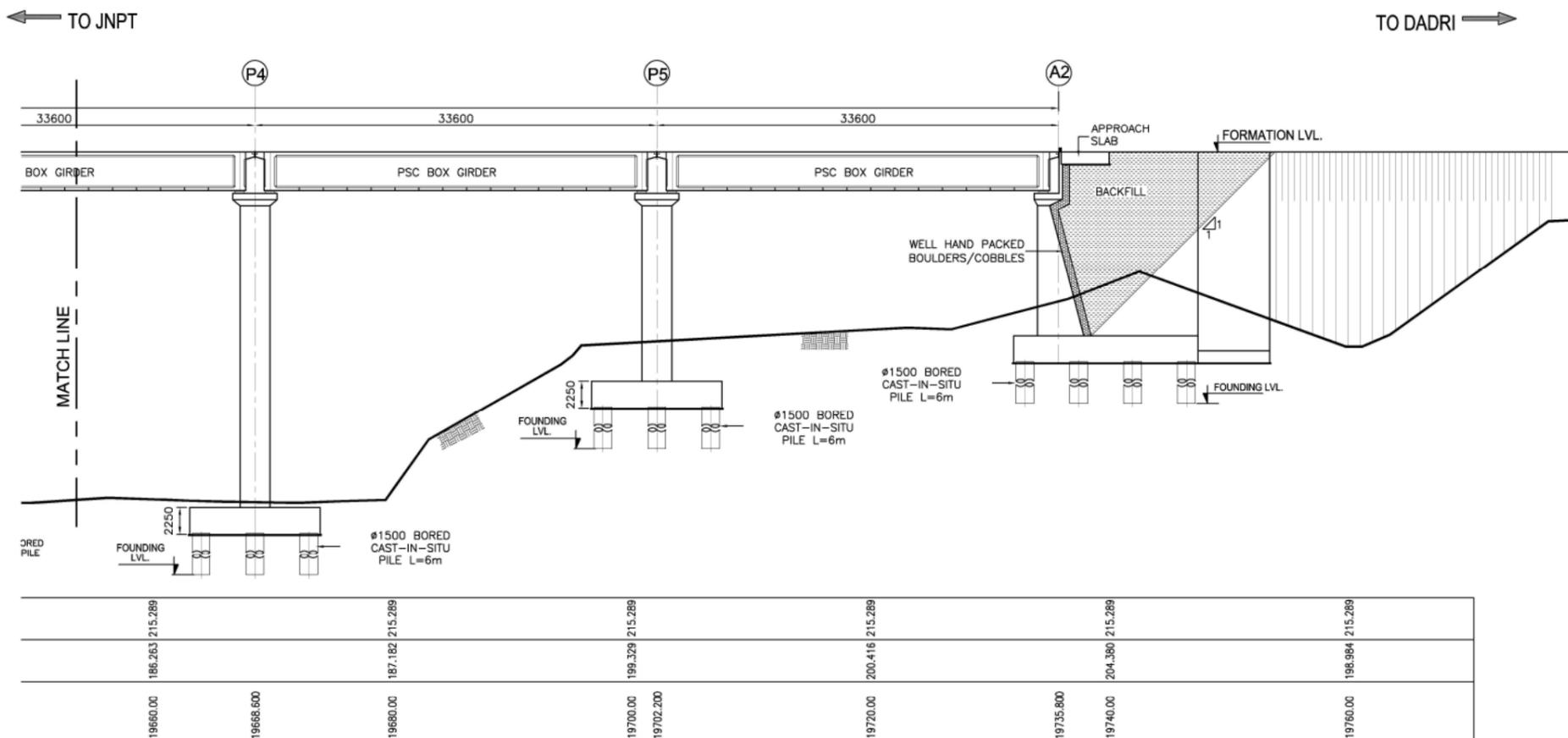
CONSULTANT
 C.E.G. (CONSULTANT) ENGINEERS
 E-12, Moji Colony, Malviya Nagar Jaipur-17
 Tel: +91-141-2520899, 2521899, 2520556
 Fax: 2521899, E-Mail: ceg@cegindia.com

DATE: 01/06/2015 PROJECT NO: 12208
 DRAWING NO: CEG/DFCC-AII/SECTION-9/ADI/845

SECTION	09
BRIDGE NO.	845
CHAINAGE	19635
KM (NWR)	636/2-3
SPAN	6X30.50 m (PSC BOX GIRDER)
DRG. NO.	CPM-AII/ENR/BR-GAD/SEC-09/845 (1 OF 5)

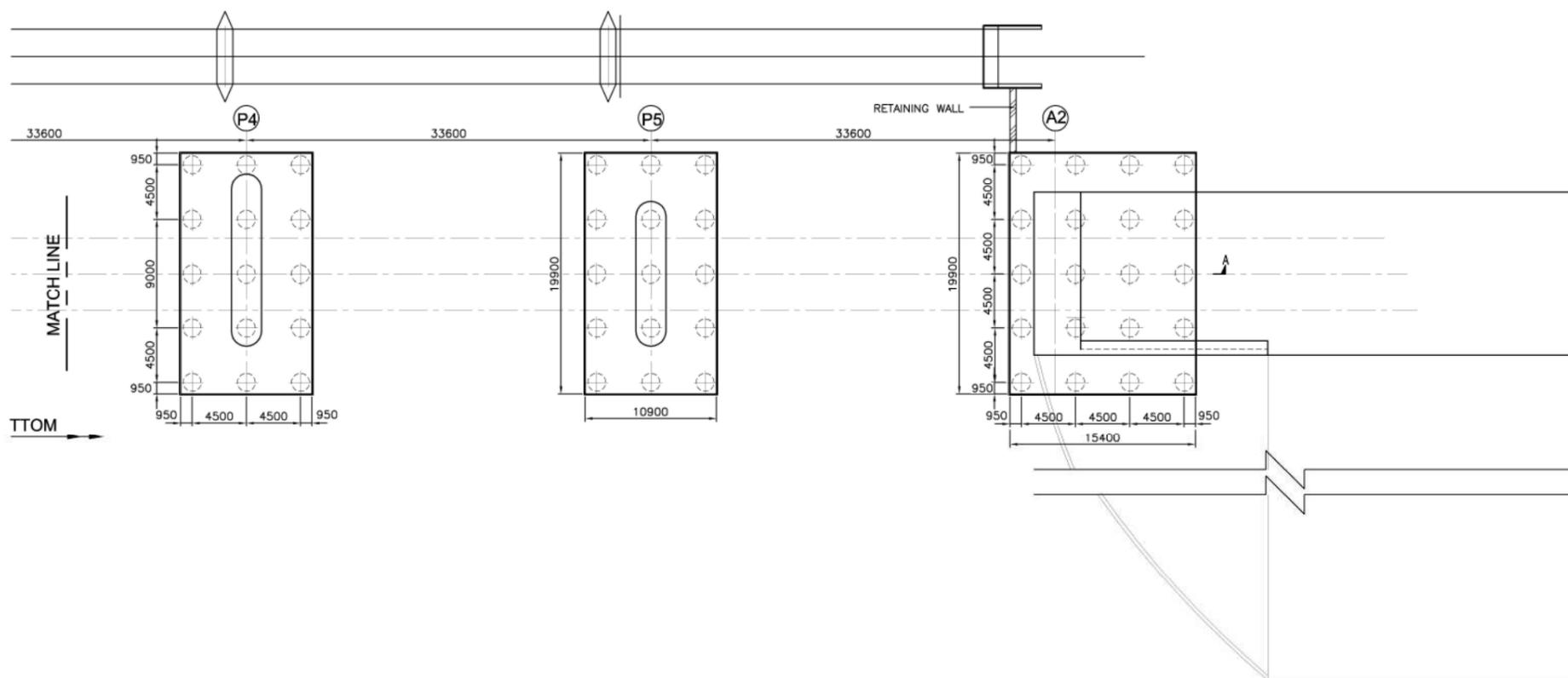
GENERAL ARRANGEMENT DRAWING
 FOR CONSTRUCTION OF BRIDGE NO. 845(6X30.50m.)
 PSC GIRDER BETWEEN SRIAMIRGARH - PALANPUR
 JN. ON
DFCCIL - WESTERN CORRIDOR

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder



186.263	187.182	199.329	200.416	204.380	198.984
19660.00	19666.600	19680.00	19700.00	19702.200	19720.00
19660.00	19666.600	19680.00	19700.00	19702.200	19720.00
19660.00	19666.600	19680.00	19700.00	19702.200	19720.00
19660.00	19666.600	19680.00	19700.00	19702.200	19720.00
19660.00	19666.600	19680.00	19700.00	19702.200	19720.00

SECTION ELEVATION A-A
(SCALE 1:250)



Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

THIS DRAWING WAS PREPARED BY
CEG (CONSULTANTS ENGINEERS & ARCHITECTS)
REVIEWED/MONITORED BY THE CONSULTANT CONSORTIUM
REFER TO THE CONTRACT DOCUMENTS FOR THE PARTICULARS OF THE BRIDGE

CONSULTING ENGINEERS
E-12, Moji Colony, Malviya Nagar Jaipur-17
Tel: +91-141-2520893, 2521899, 2520556
Fax: 2521899, E-Mail: ceg@cegindia.com

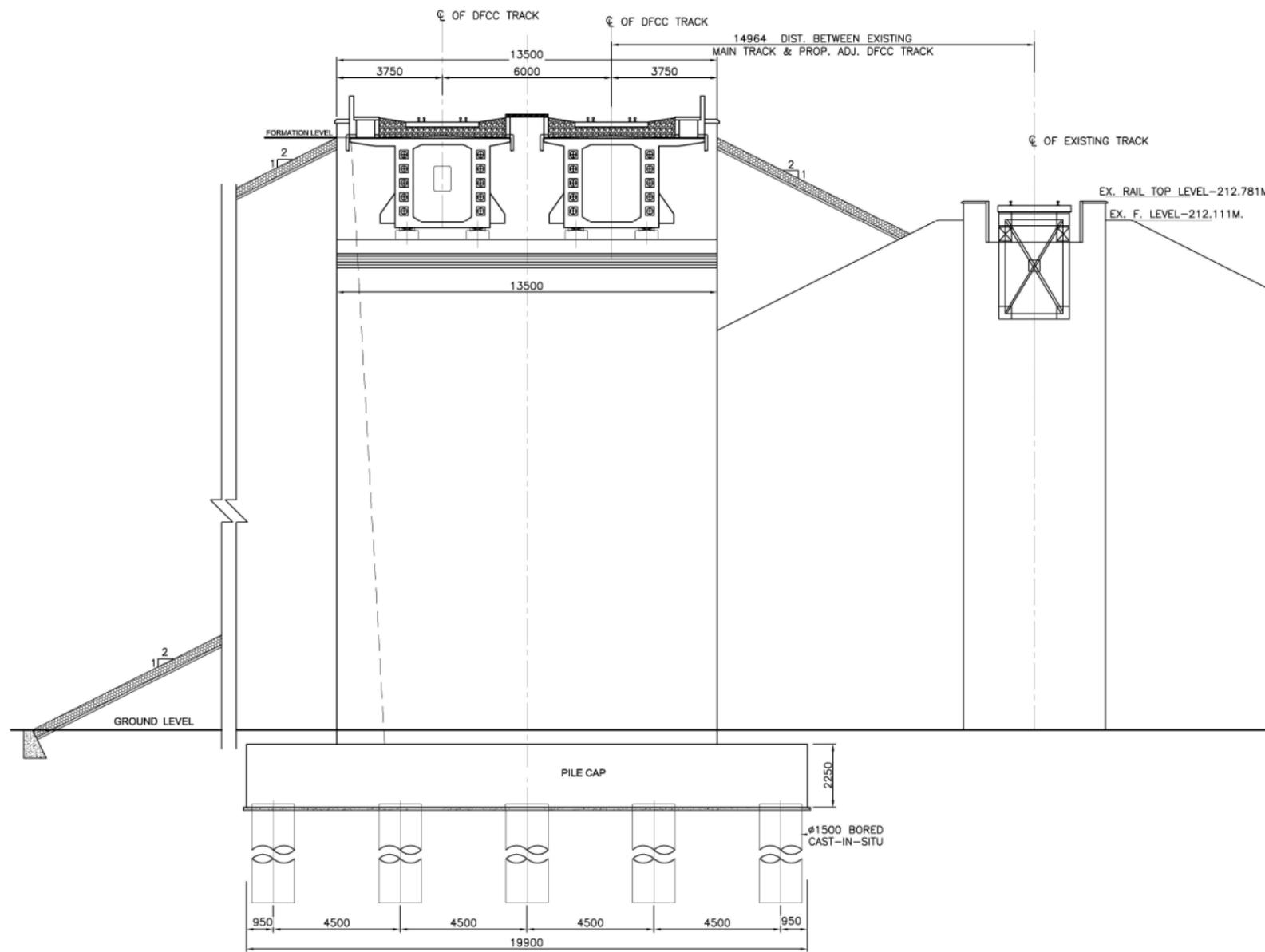
DATE: 01/06/2015 PROJECT NO: 12008
DRAWING NO: - CEG/DFCC-AII/SECTION-9/ADI/845

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM / DFCCIL / AJMER	G.G.M. / DESIGN
DY. CPM / DFCCIL / AJMER	G.G.M. / ENGG.
APM / DFCCIL / AJMER	J.G.M. / DESIGN

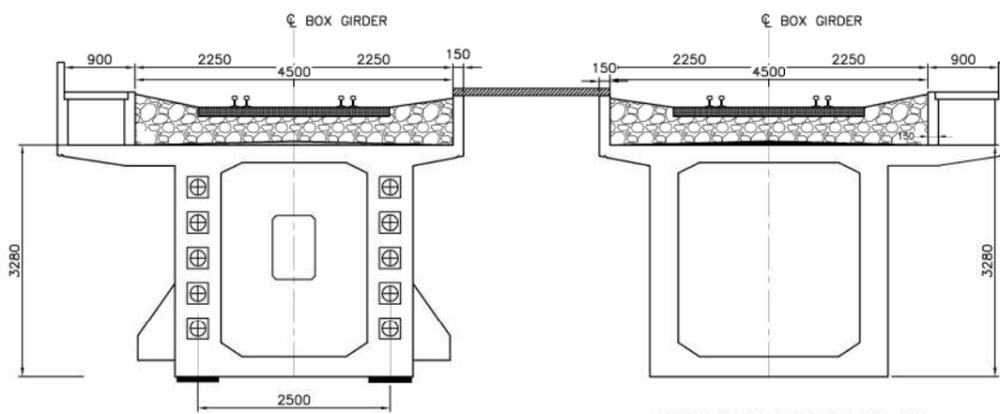
CHECKED BY/CONSULTANT: CEG	SECTION	09
	BRIDGE NO.	845
	CHAINAGE	19635
	KM (NWR)	636/2-3
	SPAN	6X30.50 m (PSC BOX GIRDER)

DRG. NO. CPM-AII/ENR/BR-GAD/SEC-09/845
(2 OF 5)
GENERAL ARRANGEMENT DRAWING
FOR CONSTRUCTION OF BRIDGE NO. 845(6X30.50m.)
PSC GIRDER BETWEEN SRIAMIRGARH - PALANPUR
JN. ON

DFCCIL - WESTERN CORRIDOR

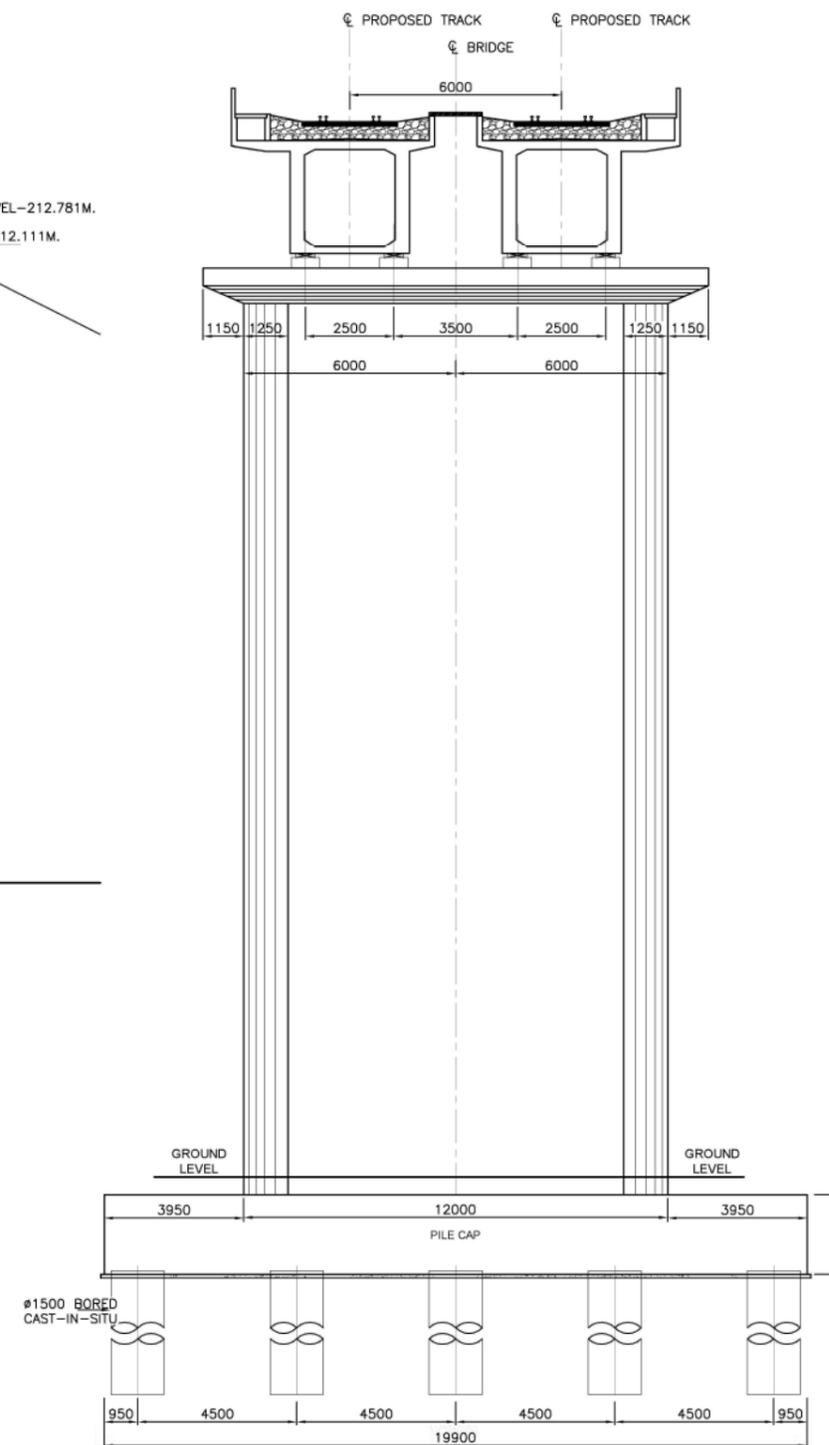


SECTION B-B
(SCALE 1:100)



SECTION AT SUPPORT SECTION AT MID SPAN

30.50m (SPAN POST TENSION BOX GIRDER)
Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder



SECTION C-C
(SCALE 1:100)

THIS DRAWING WAS PREPARED BY
CEG (CONSULTING ENGINEERS GROUP) INDIA
REVIEWED BY THE CONSULTANT'S CONSO RTIUM
REFER TO THE DRAWING FOR THE PARTICULARS OF THE BRIDGE

CONSULTING ENGINEERS GROUP
E-12, Moji Colony, Malviya Nagar Jaipur-17
Tel: +91-141-2520893, 2521899, 2520556
Fax: 2521899, E-Mail: ceg@cegindia.com

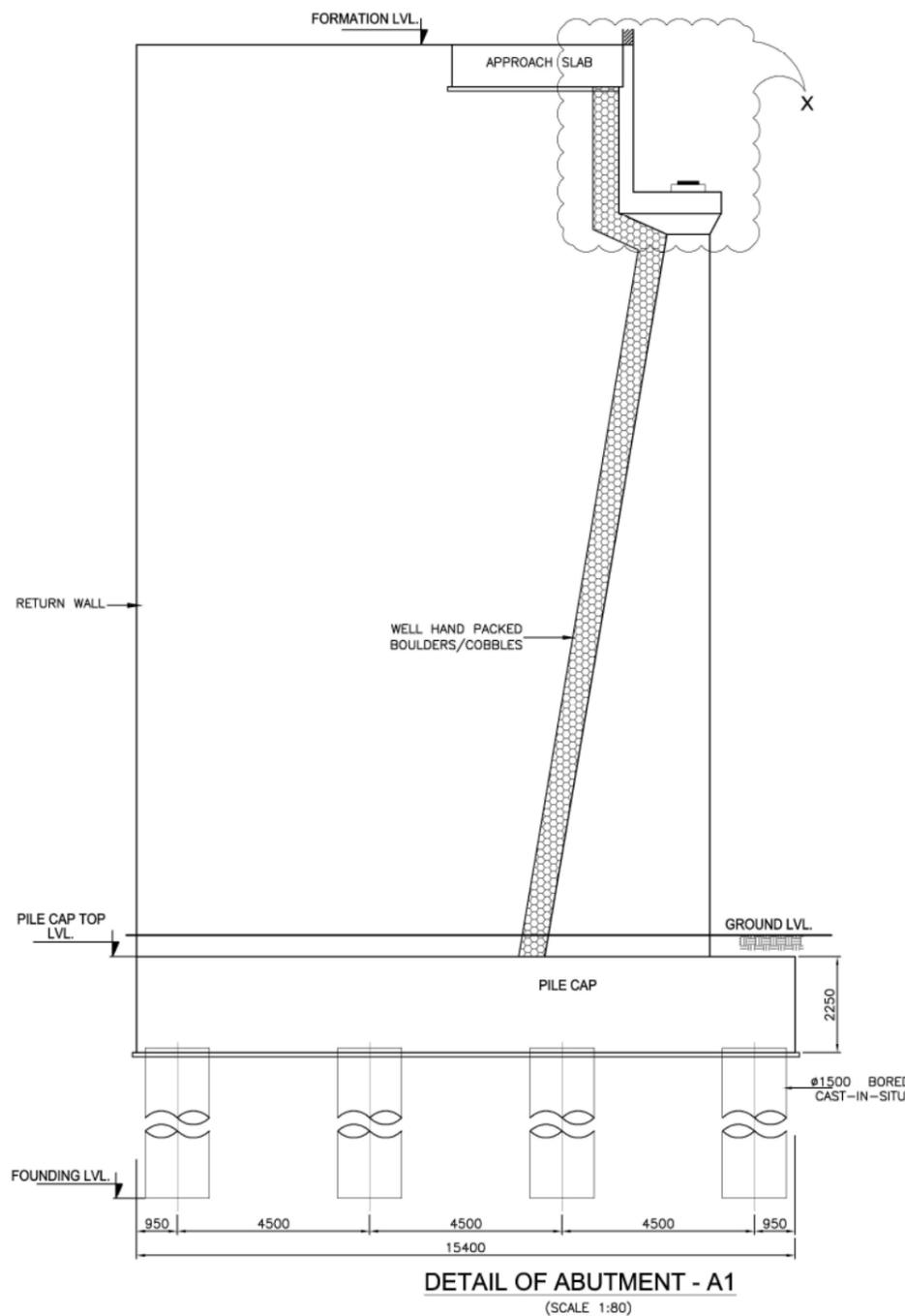
DATE: 01/06/2015 PROJECT NO: 12008
DRAWING NO: - CEG/DFCC-AII/SECTION-9/ADI/845

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM / DFCCIL / AJMER	G.G.M. / DESIGN
DY. CPM / DFCCIL / AJMER	G.G.M. / ENGG.
APM / DFCCIL / AJMER	J.G.M. / DESIGN

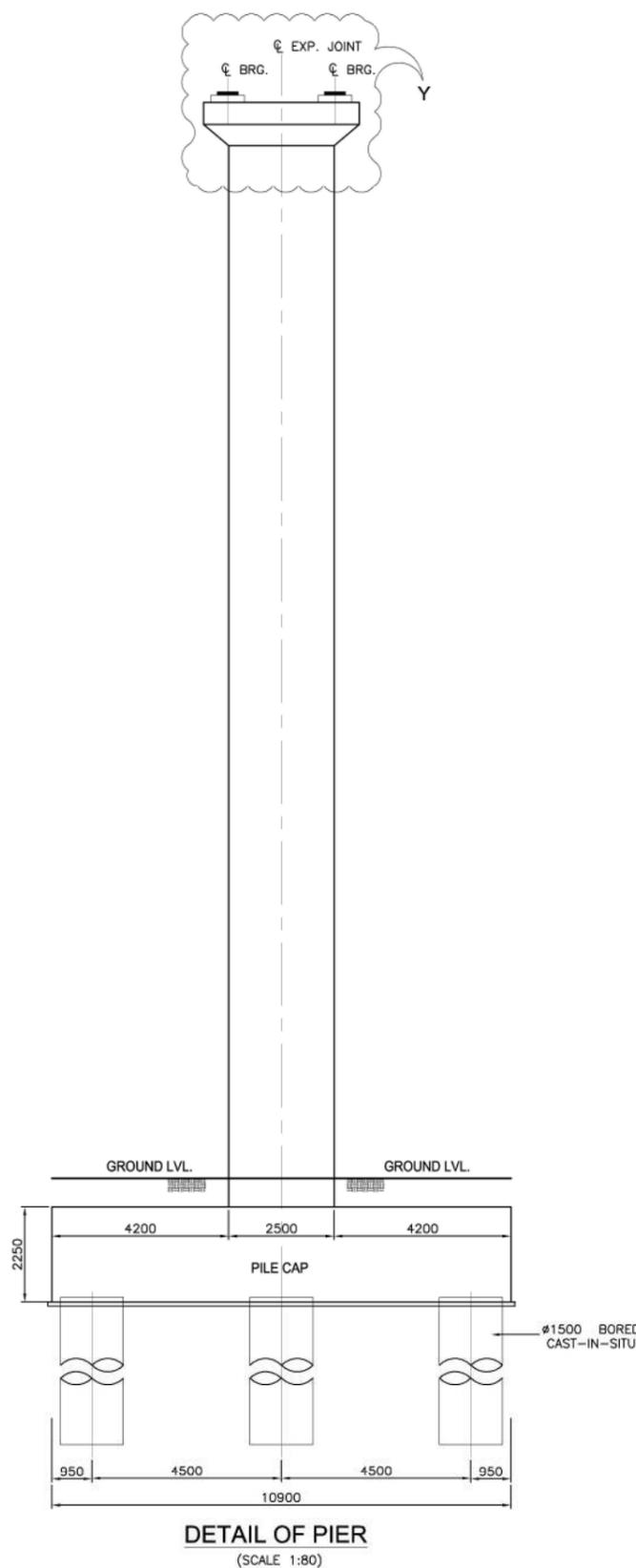
CHECKED BY CONSULTANT: CEG	SECTION	09
	BRIDGE NO.	845
	CHAINAGE	19635
	KM (NWR)	636/2-3
	SPAN	6X30.50 m (PSC BOX GIRDER)
	DRG. NO.	CPM-AII/ENR/BR-GAD/SEC-09/845 (3 OF 5)

GENERAL ARRANGEMENT DRAWING
FOR CONSTRUCTION OF BRIDGE NO. 845(6X30.50m.)
PSC GIRDER BETWEEN SRIAMIRGARH - PALANPUR
JN. ON

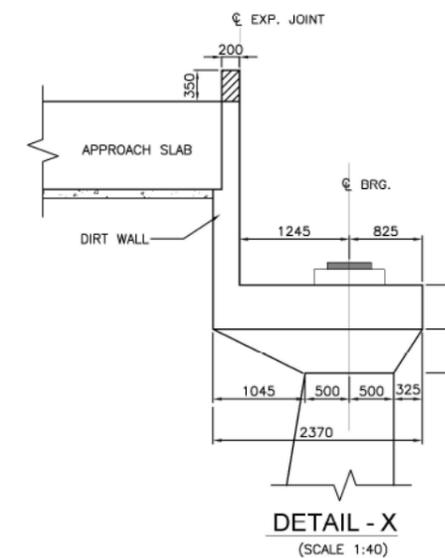
DFCCIL - WESTERN CORRIDOR



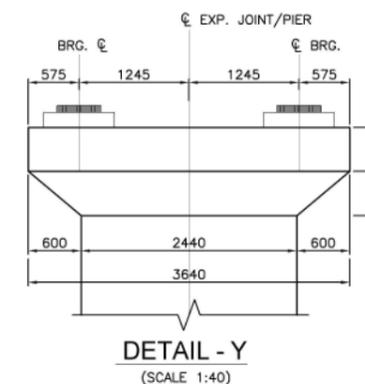
DETAIL OF ABUTMENT - A1
(SCALE 1:80)



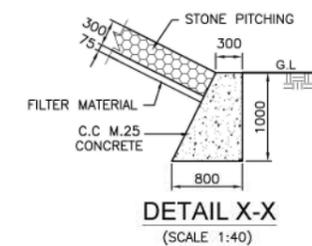
DETAIL OF PIER
(SCALE 1:80)



DETAIL - X
(SCALE 1:40)



DETAIL - Y
(SCALE 1:40)



DETAIL X-X
(SCALE 1:40)

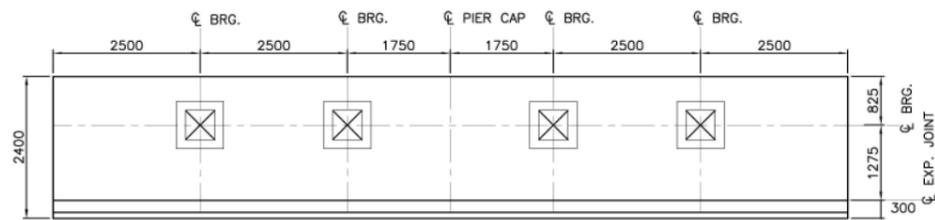
Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM / DFCCIL / AJMER	G.G.M. / DESIGN
DY. CPM / DFCCIL / AJMER	G.G.M. / ENGG.
APM / DFCCIL / AJMER	J.G.M. / DESIGN
CHECKED BY/CONSULTANT: CEG	
SECTION	09
BRIDGE NO.	845
CHAINAGE	19635
KM (NWR)	636/2-3
SPAN	6X30.50 m (PSC BOX GIRDER)
DRG. NO.	CPM-AIU/ENR/BR-GAD/SEC-09/845 (4 OF 5)
GENERAL ARRANGEMENT DRAWING	
FOR CONSTRUCTION OF BRIDGE NO. 845(6X30.50m.) PSC GIRDER BETWEEN SRIAMIRGARH - PALANPUR JN. ON	
DFCCIL - WESTERN CORRIDOR	

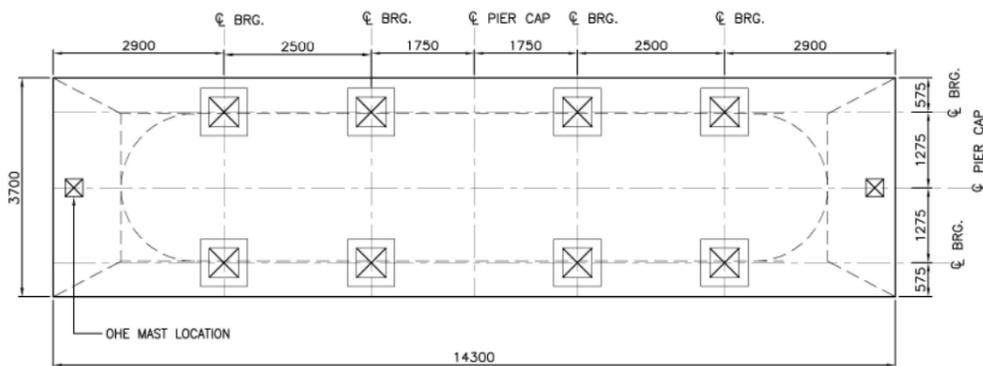
THIS DRAWING WAS PREPARED BY
C.E.G. (CONSULTANTS) ENGINEERS AND ARCHITECTS
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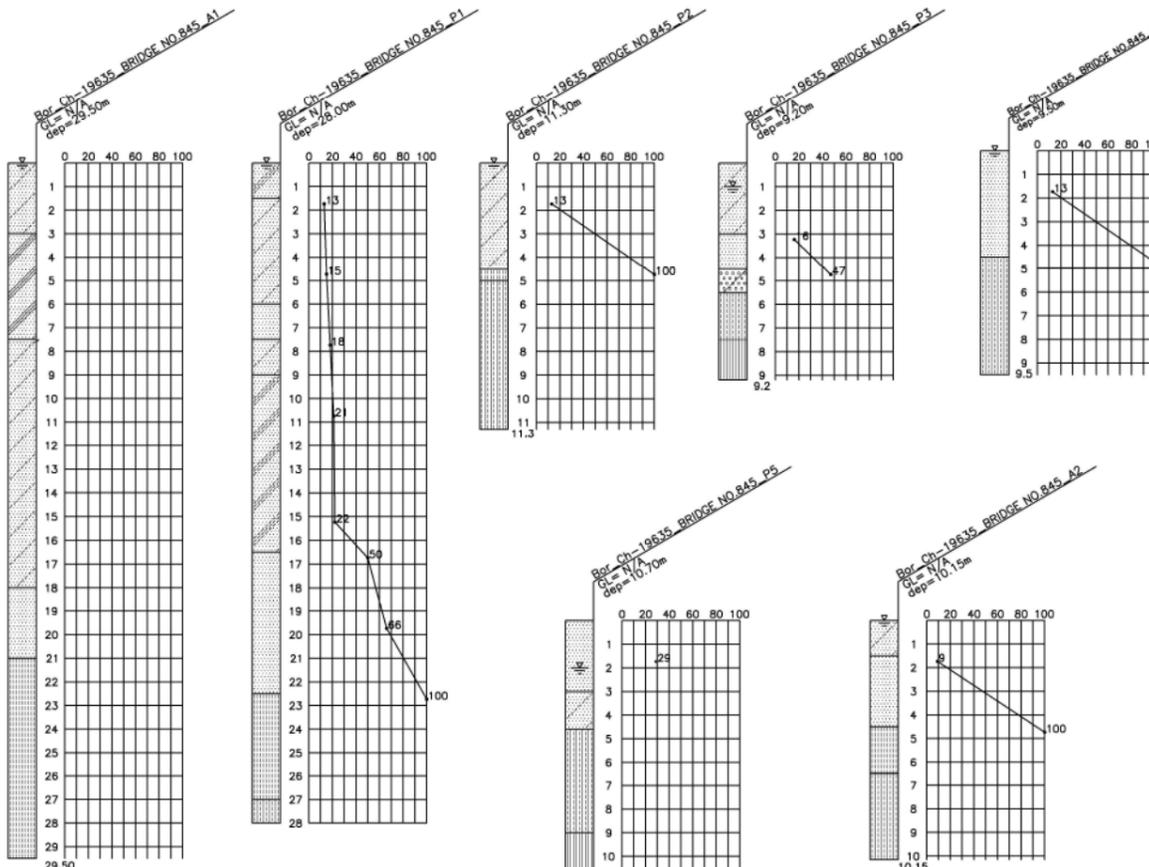
DATE: 01/06/2015 PROJECT NO: 12008
DRAWING NO.: CEG/DFCC-AII/SECTION-9/ADI/845



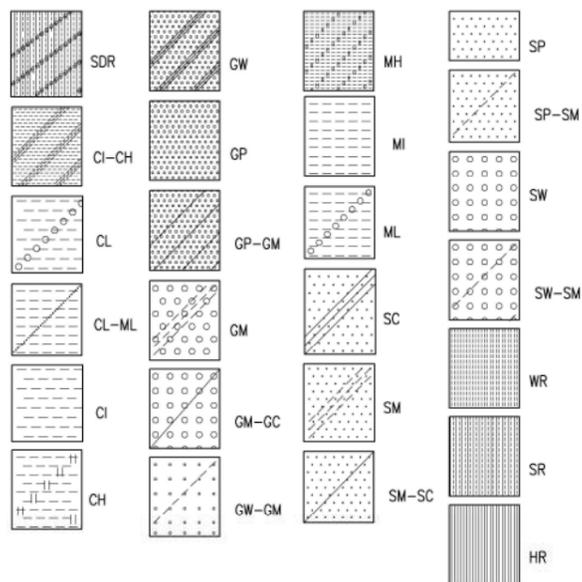
PLAN AT ABUTMENT CAP LVL.
(SCALE 1:60)



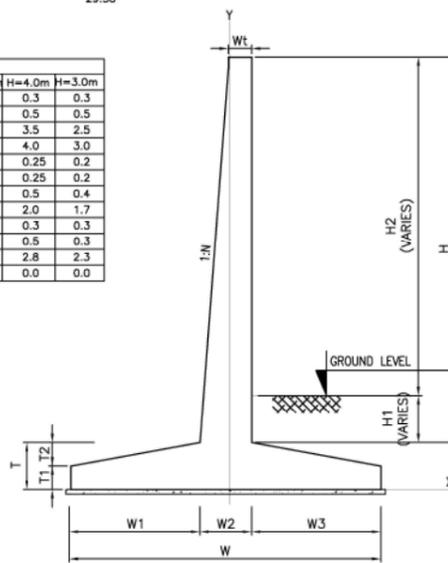
PLAN AT PIER CAP LEVEL
(SCALE 1:60)



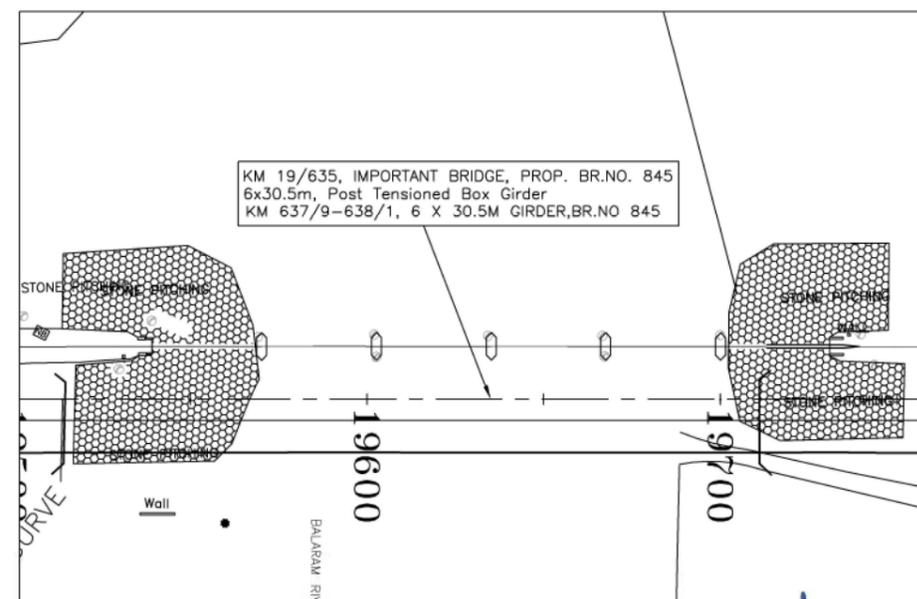
LEGEND:



DETAIL (R1-R1)							
ITEM	UNIT	H=9.0m	H=8.0m	H=7.0m	H=6.0m	H=5.0m	H=4.0m
Wt	m	0.8	0.6	0.4	0.4	0.35	0.3
H1	m	0.5	0.5	0.5	0.5	0.5	0.5
H2	m	8.5	7.5	6.5	5.5	4.5	3.5
H	m	9.0	8.0	7.0	6.0	5.0	4.0
T1	m	0.4	0.4	0.4	0.3	0.3	0.25
T2	m	0.7	0.5	0.4	0.3	0.3	0.25
T	m	1.1	0.9	0.8	0.6	0.6	0.5
W1	m	3.9	3.0	2.5	2.0	2.0	1.7
W2	m	1.25	1.0	0.8	0.8	0.35	0.3
W3	m	1.5	1.5	1.0	1.0	1.0	0.5
W	m	6.65	5.5	4.25	3.4	3.35	2.8
1:1/n		20.0	20.0	20.0	20.0	0.0	0.0



DETAIL (R1-R1)
(SCALE 1:75)



KEY PLAN

KM 19/635, IMPORTANT BRIDGE, PROP. BR.NO. 845
6x30.5m, Post Tensioned Box Girder
KM 637/9-638/1, 6 X 30.5M GIRDER, BR.NO 845

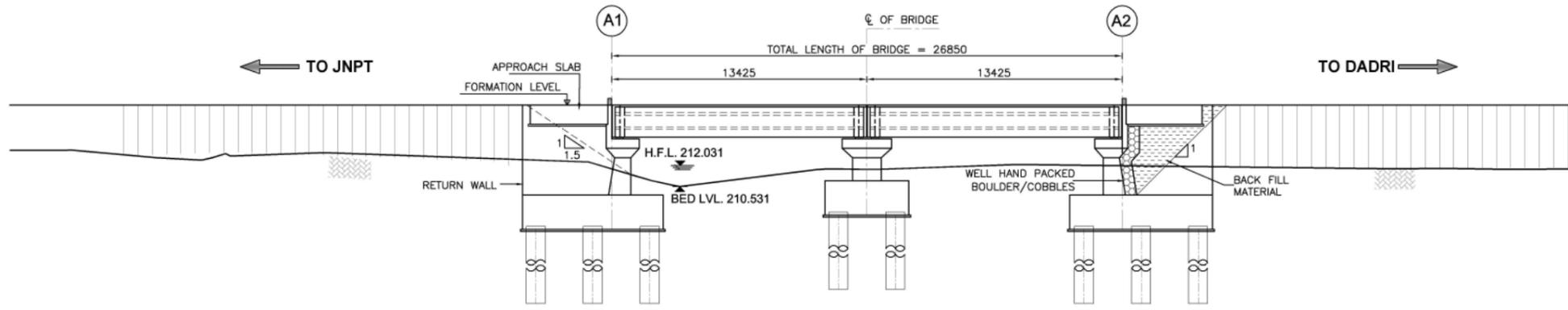
Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

THIS DRAWING WAS PREPARED BY
CEG (CONSTRUCTION ENGINEERS GROUP)
REVIEWED BY THE CONSULTANT ENGINEER
REFER TO THE DRAWING FOR THE PARTICULARS OF THE BRIDGE

CONSULTING ENGINEERS
E-12, Moji Colony, Malviya Nagar Jaipur-17
Tel: +91-141-2520899, 2521899, 2520556
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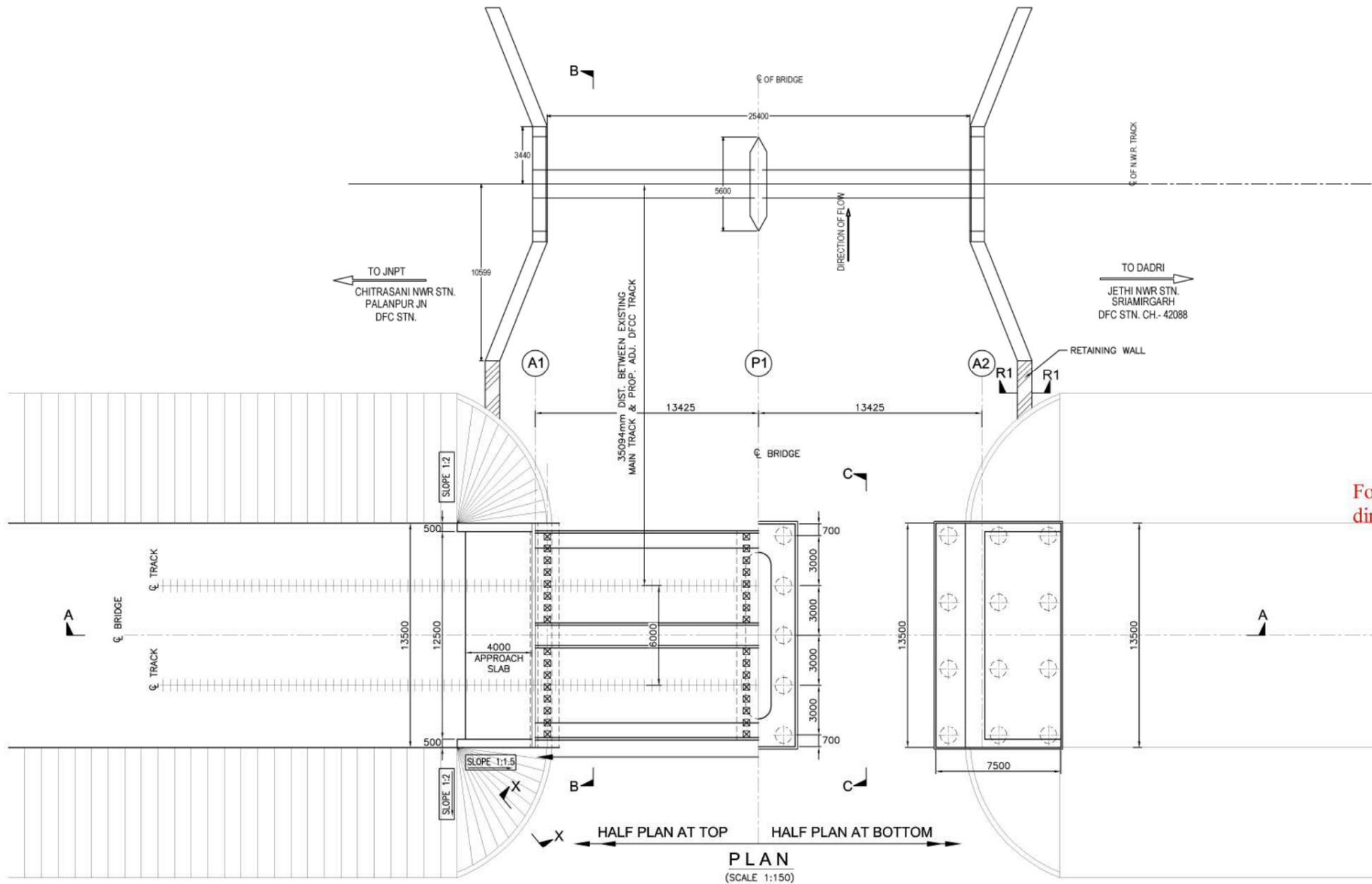
PROJECT NO. 12008
DRAWING NO. - CEG/DFCC-AII/SECTION-9/ADI/845

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM / DFCCIL / AJMER	G.G.M. / DESIGN
DY. CPM / DFCCIL / AJMER	G.G.M. / ENGG.
APM / DFCCIL / AJMER	J.G.M. / DESIGN
CHECKED BY CONSULTANT: CEG	
SECTION	09
BRIDGE NO.	845
CHAINAGE	19635
KM (NWR)	636/2-3
SPAN	6X30.50 m (PSC BOX GIRDER)
DRG. NO.	CPM-AII/ENR-BR-GAD/SEC-09/845 (5 OF 5)
GENERAL ARRANGEMENT DRAWING	
FOR CONSTRUCTION OF BRIDGE NO. 845(6X30.50m.) PSC GIRDER BETWEEN SRIAMIRGARH - PALANPUR JN. ON	
DFCCIL - WESTERN CORRIDOR	



FORMATION LVL.(m)	21360.000	21363.575	21377.000	21380.000	21390.425	21400.000
GROUND LVL.(m)	211.949	212.209	212.576	212.576	212.461	212.356
CHAINAGE (m)	21360.000	21363.575	21377.000	21380.000	21390.425	21400.000

LONGITUDINAL SECTION A-A
(SCALE 1:150)



PLAN
(SCALE 1:150)

- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
 3. ALL DIMENSIONS AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 4. THIS GENERAL ARRANGEMENT DRAWING IS INDICATIVE AND IS MEANT ONLY FOR GUIDANCE FOR THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DEVELOPED & DESIGNED BY THE CONTRACTOR AS PER THE EMPLOYER'S REQUIREMENTS, SPECIFICATIONS AND SITE DIMENSIONS / CONDITIONS AND SHALL BE APPROVED BY ENGINEER / EMPLOYER.
 5. ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
 6. FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
 7. LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 8. GROUND PROFILE SHOULD BE VERIFIED BEFORE EXECUTION.
- SUPERSTRUCTURE & SUBSTRUCTURE**
- 1) THE BRIDGE SHALL BE DESIGNED AS PER DFCCI LOADING (32.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO. (WITH LATEST CORRECTION SLIP).
 - 2) THE BRIDGE SHALL BE DESIGNED AS PER THE SEISMIC ZONE FOR THE AREA.
 - 3) BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - 4) WEEP HOLES SHALL BE OF PROVIDED IN RETURN WALL & ABUTMENT.
 - 5) SOLE FOUNDATION BOLTS SHALL BE PROVIDED IN CONSULTATION WITH THE CONTRACTOR OF EMP-4.
 - 6) RAILING EXPANSION JOINTS, BEARING, WEARING COAT, FOOTPATH, SERVICE DUCT, DRAINAGE SHALL BE PROVIDED AS PER SPECIFICATION.
 - 7) FOR INSPECTION OF BEARING / SUPERSTRUCTURE, SUITABLE ARRANGEMENT SHALL BE PROVIDED.
 - 8) FOR CHANGING OF BEARING SUITABLE ARRANGEMENT SHALL BE PROVIDED.
- GEO-TECHNICAL**
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT.
 - 2) GEO-TECHNICAL BORE HOLE DATA REFERRED IN GAD IS INDICATIVE ONLY.
 - 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE.

TABLE-1	
DETAILS	PROPOSED DFC
PACKAGE	3
SECTOR	9
BRIDGE NO.	843
CHAINAGE	21377.000
SPAN CONFIGURATION (C/C) OF PIER	2X12.2m
OVERALL SPAN (mm)	13375
EFFECTIVE SPAN (mm)	12575
CLEAR SPAN (mm)	12200
TYPE OF STRUCTURE	PRESTRESSED CONTINUOUS BOX
DEPTH OF SUPERSTRUCTURE (mm)	1780
TYPE OF CROSSING	MUNJAWALA RIVER
BRIDGE (STRAIGHT/CURVE/SKEW)	STRAIGHT
FORMATION LEVEL R.L. (METER)	215.207
H.F.L. R.L. (METER)	212.031
BED LEVEL R.L. (METER)	210.531
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	-
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH SUITABLE RESTRAINTS)	FIX & FREE

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

APPROVED

DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM / DFCCIL / AJMER	G.G.M. / DESIGN
DY. CPM / DFCCIL / AJMER	G.G.M. / ENGG.
APM / DFCCIL / AJMER	J.G.M. / DESIGN

CHECKED BY CONSULTANT: CEG

SECTION	09
BRIDGE NO.	843
CHAINAGE	21377
KM (NWR)	636/2-3
SPAN	2X12.20 (PRESTRESSED CONTINUOUS BOX)
DRG. NO.	CPM-All/EN/BR-GAD/SEC-09/843 (1 OF 3)

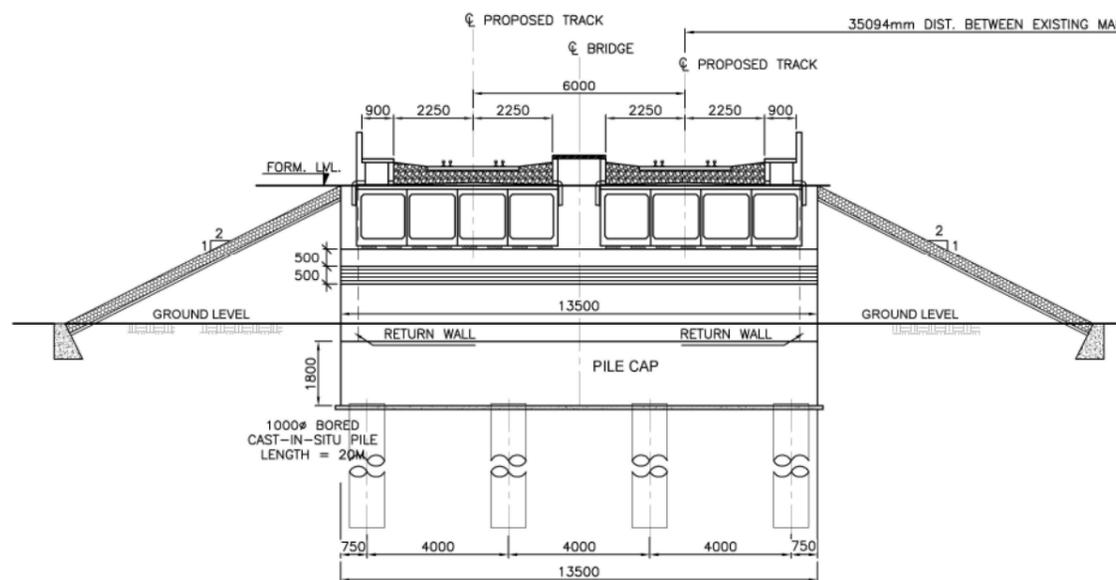
GENERAL ARRANGEMENT DRAWING
FOR CONSTRUCTION OF BRIDGE NO. 843(2X12.20m.)
PRESTRESSED CONTINUOUS BOX
BETWEEN SRIAMIRGARH - PALANPUR
JN, ON
DFCCIL - WESTERN CORRIDOR

THIS DRAWING WAS PREPARED BY C E G (CONSULTANT) IN COLLABORATION WITH THE CONSULTANT, REFER TO THE SPECIFICATION OF THE BRIDGE

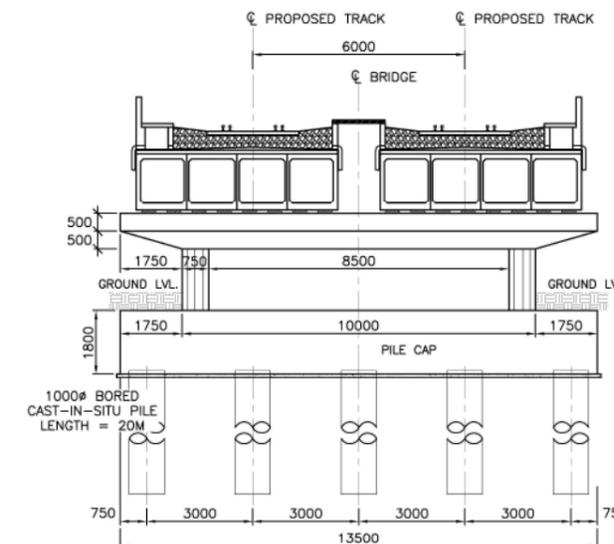
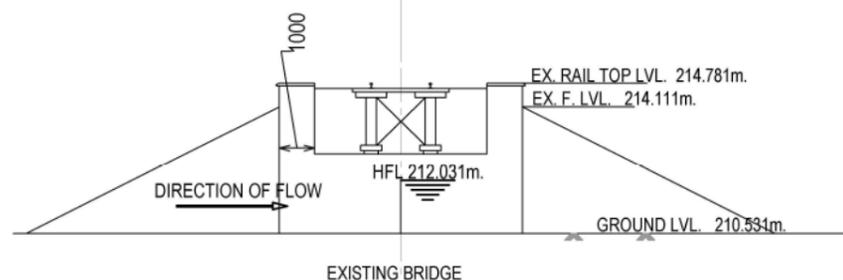
THIS DRAWING IS THE PROPERTY OF DFCCIL (MINISTRY OF RAILWAY), NEW DELHI AND SHALL NOT BE USED OR REPRODUCED IN ANY MANNER WITHOUT PRIOR CONSENT IN WRITING.

CONSULTANT
Engineers
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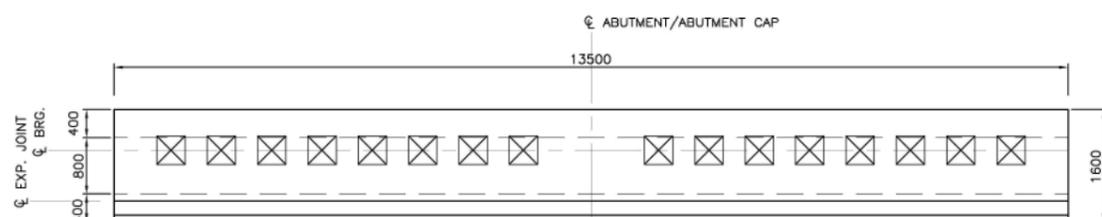
DATE: 01/06/2015 PROJECT NO: 10008
DRAWING NO.: CEG/DFCC-All/SECTION-9/AD/843



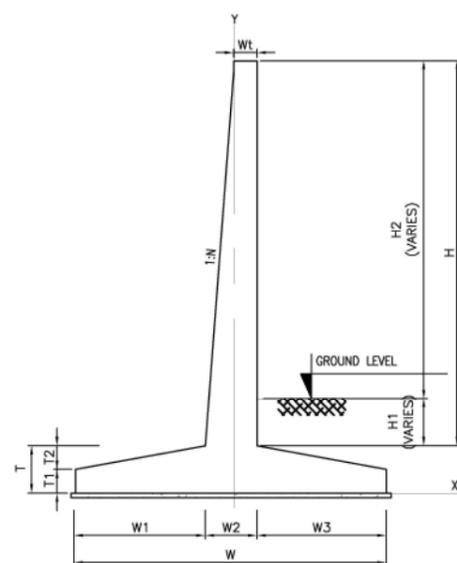
SECTION B-B
(SCALE 1:100)



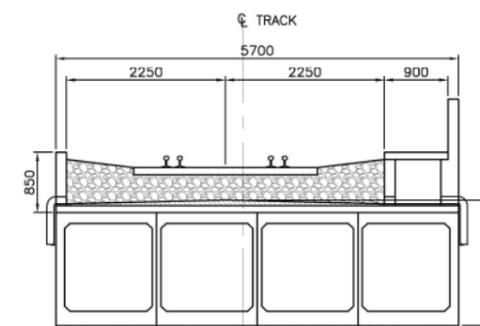
SECTION C-C
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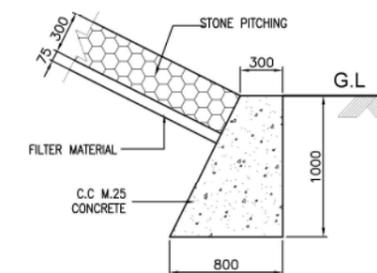
PLAN AT ABUTMENT CAP LEVEL
(SCALE 1:25)



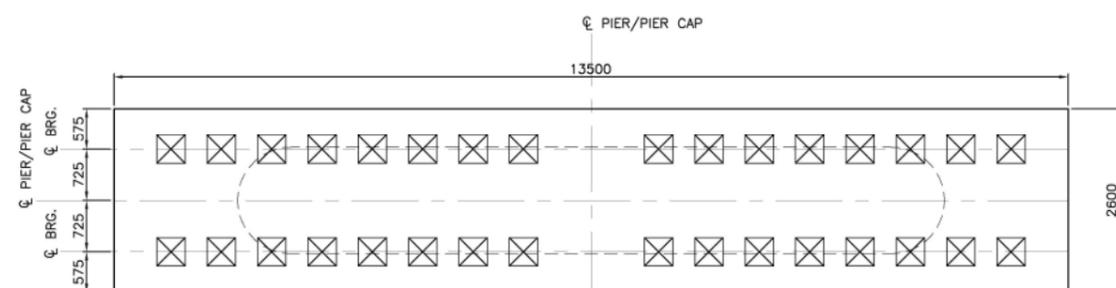
DETAIL (R1-R1)
(SCALE 1:75)



12.2m SPAN (PRESTRESSED BOX)
(SCALE 1:50)



DETAIL X-X
(SCALE 1:25)



PLAN AT PIER CAP LEVEL
(SCALE 1:25)

ITEM	UNIT	DETAIL (R1-R1)						
		H=9.0m	H=8.0m	H=7.0m	H=6.0m	H=5.0m	H=4.0m	H=3.0m
Wt	m	0.8	0.6	0.4	0.4	0.35	0.3	0.3
H1	m	0.5	0.5	0.5	0.5	0.5	0.5	0.5
H2	m	8.5	7.5	6.5	5.5	4.5	3.5	2.5
H	m	9.0	8.0	7.0	6.0	5.0	4.0	3.0
T1	m	0.4	0.4	0.4	0.3	0.3	0.25	0.2
T2	m	0.7	0.5	0.4	0.3	0.3	0.25	0.2
T	m	1.1	0.9	0.8	0.6	0.6	0.5	0.4
W1	m	3.9	3.0	2.5	2.0	2.0	2.0	1.7
W2	m	1.25	1.0	0.8	0.8	0.35	0.3	0.3
W3	m	1.5	1.5	1.0	1.0	1.0	0.5	0.3
W	m	6.65	5.5	4.25	3.4	3.35	2.8	2.3
1:1/n		20.0	20.0	20.0	20.0	0.0	0.0	0.0

REFERENCE DRAWINGS	
DRAWING NO	SUBJECT
L & T RAMBOLL DWG. NO. DD-221	STRUCTURAL DRAWING
CEG/MADAR-PALANPUR/S9/29	PLAN-PROFILE
BRIDGE NO.	843
H.F.L.	212.031m
FREE BOARD	-
CLEARANCE	0.317m
SCALE	AS SHOWN

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS

CPM / DFCCIL / AJMER	G.G.M. / DESIGN
DY. CPM / DFCCIL / AJMER	G.G.M. / ENGG.
APM / DFCCIL / AJMER	J.G.M. / DESIGN

CHECKED BY/CONSULTANT: CEG	
SECTION	09
BRIDGE NO.	843
CHAINAGE	21377
KM (NWR)	636/2-3
SPAN	2X12.20 (PRESTRESSED CONTINUOUS BOX)

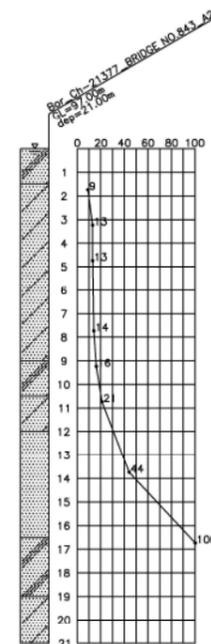
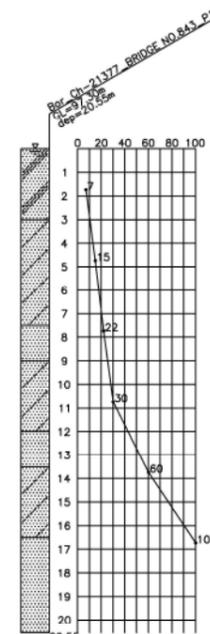
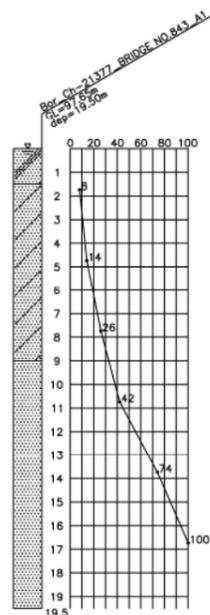
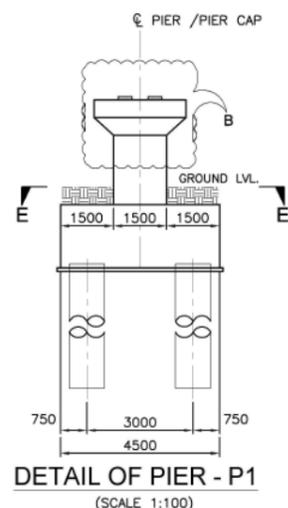
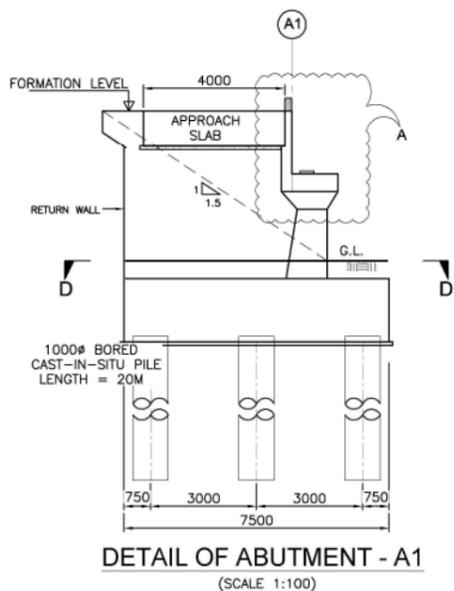
THIS DRAWING WAS PREPARED BY
C.E.G. (CONSULTANT) FOR THE WESTERN CORRIDOR
REVIEWED BY THE DESIGNER AND APPROVED BY THE CONSULTANT
REFER TO THE SPECIFICATIONS FOR THE PARAMETERS OF THE BRIDGE

CONSULTANT
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DATE: 01/06/2015 PROJECT NO: 12008
DRAWING NO.: CEG/DFCC-AII/SECTION-9/AD/843

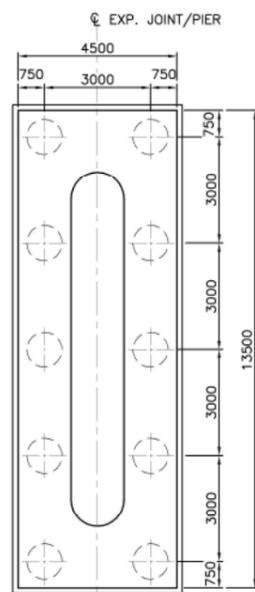
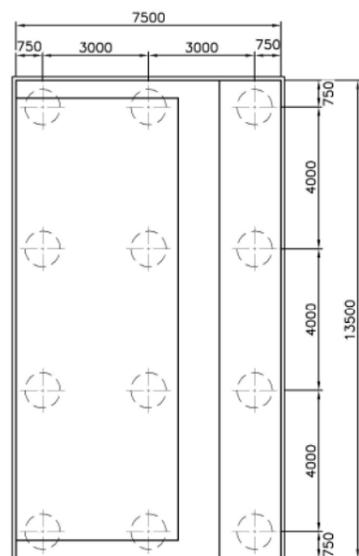
CPM - AII ENV. BR. GADY SEC-09/843
(2 OF 3)
GENERAL ARRANGEMENT DRAWING
FOR CONSTRUCTION OF BRIDGE NO. 843(2X12.20m.)
PRESTRESSED CONTINUOUS BOX
BETWEEN SRIAMIRGARH - PALANPUR
JN. ON
DFCCIL - WESTERN CORRIDOR

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder



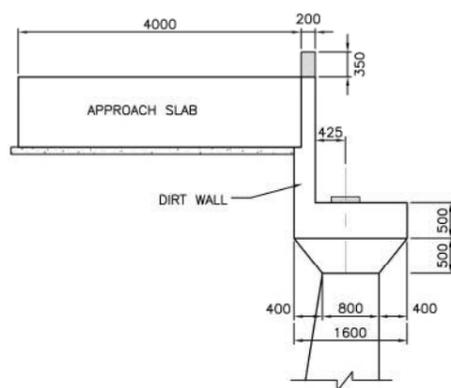
LEGEND:

SDR	GW	MH	SP
CI-CH	GP	MI	SP-SM
CL	GP-GM	ML	SW
CL-ML	GM	SC	SW-SM
CI	GM-GC	SM	WR
CH	GW-GM	SM-SC	SR
			HR

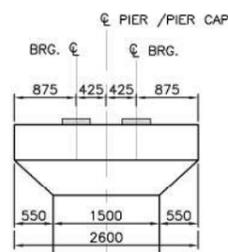


SECTION D-D
(SCALE 1:100)

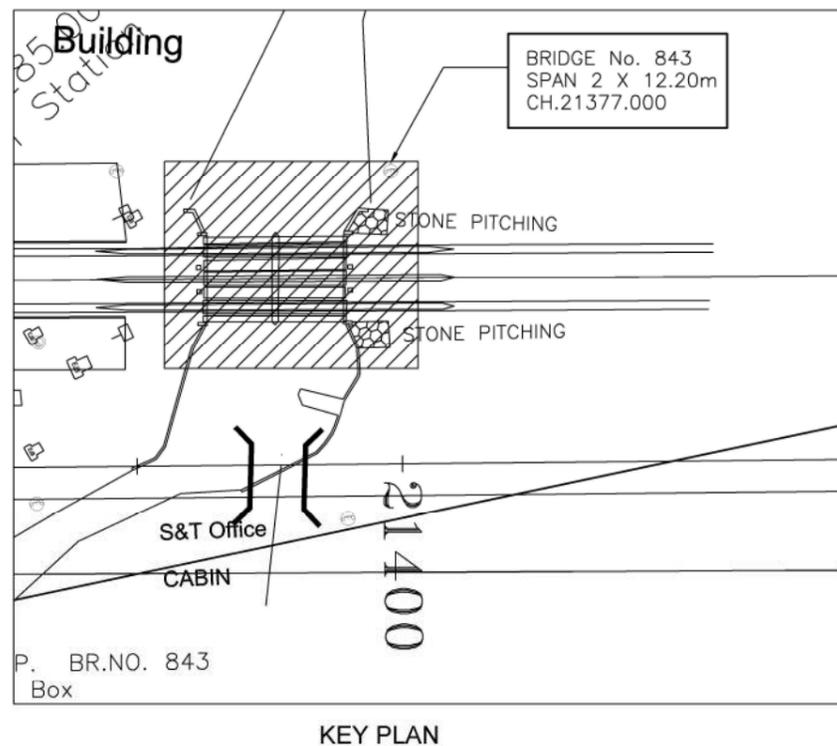
SECTION E-E
(SCALE 1:100)



DETAIL - A
(SCALE 1:50)



DETAIL - B
(SCALE 1:50)



KEY PLAN

REFERENCE DRAWINGS:	
DRAWING NO.	SUBJECT.
L & T RAMBOLL DWG. NO. DD-221	STRUCTURAL DRAWING
CEG/MADAR-PALANPUR/S9/29	PLAN- PROFILE
BRIDGE NO.	843
H.F.L.	212.031m.
FREE BOARD	-
CLEARANCE	0.317m.
SCALE	AS SHOWN

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM / DFCCIL / AJMER	G.G.M. / DESIGN
DY. CPM / DFCCIL / AJMER	G.G.M. / ENGG.
APM / DFCCIL / AJMER	J.G.M. / DESIGN

CHECKED BY/CONSULTANT: CEG	SECTION	09
	BRIDGE NO.	843
	CHAINAGE	21377
	KM (NWR)	636/2-3
	SPAN	2X12.20 (PRESTRESSED CONTINUOUS BOX)

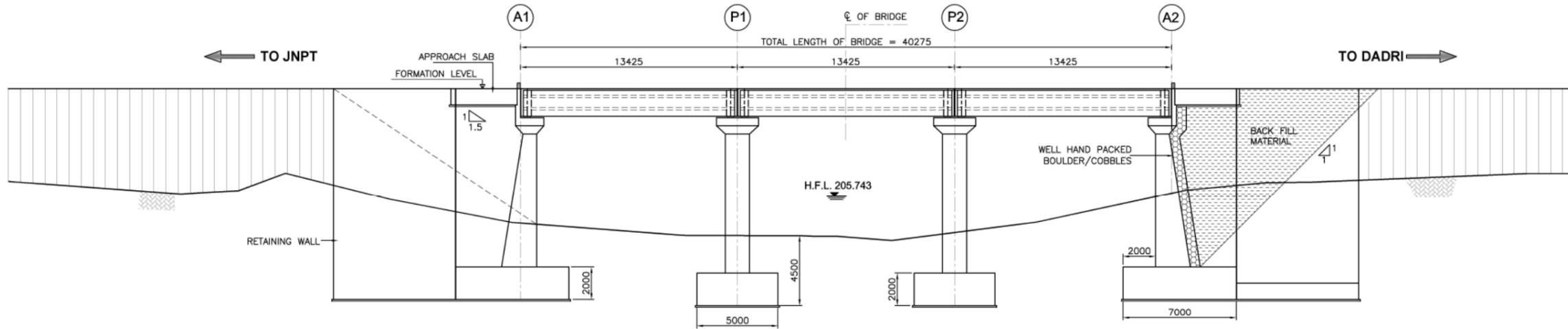
THIS DRAWING WAS PREPARED BY C E G (CONSULTANTS) IN PARTNERSHIP WITH DFCCIL. REVIEWED BY THE DESIGN TEAM OF CONSORTIUM REFER TO THE DRAWING FOR THE PARTICULARS OF THE BRIDGE.

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DATE: 01/06/2015 PROJECT NO: 10208
DRAWING NO: CEG/DFCC-AII/SECTION-9/AD/843

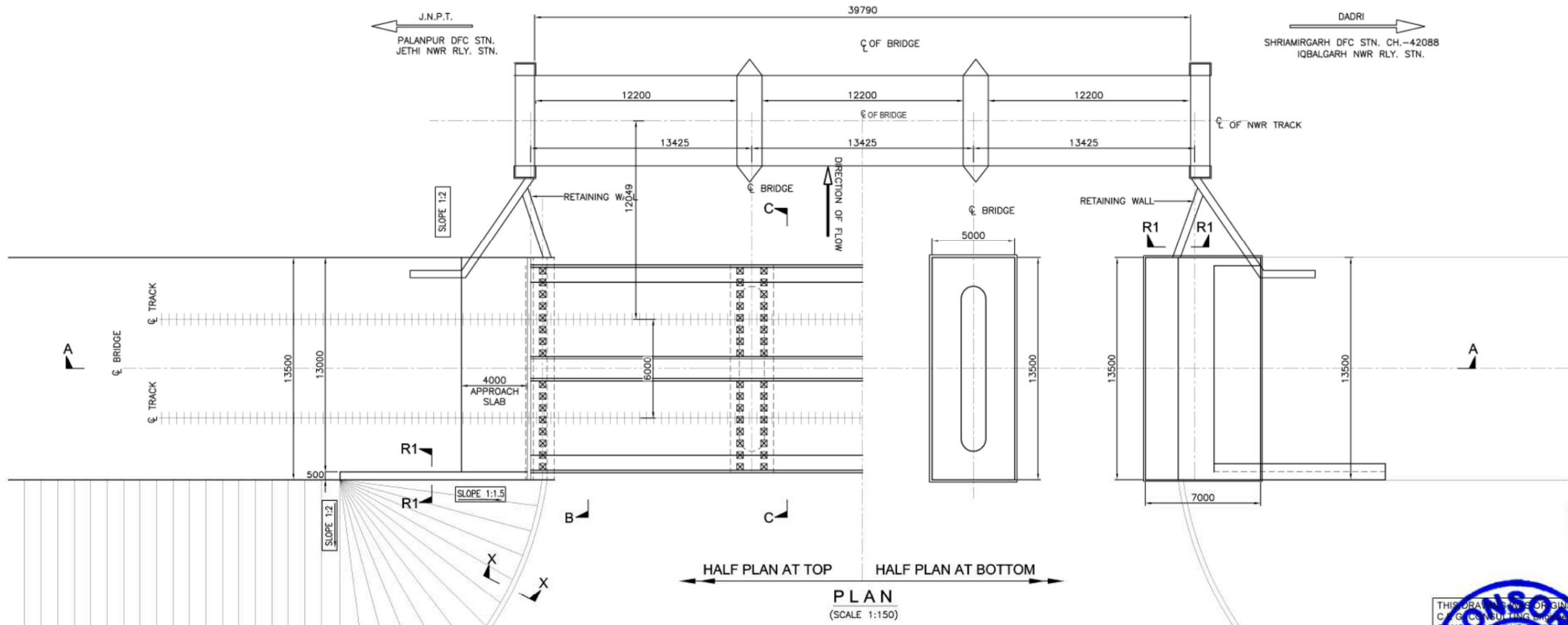
DRG. NO. CPM-AII/ENR/BR-3AD/SEC-09/843 (3 OF 3)
GENERAL ARRANGEMENT DRAWING
FOR CONSTRUCTION OF BRIDGE NO. 843(2X12.20m)
PRESTRESSED CONTINUOUS BOX
BETWEEN SRIAMIRGARH - PALANPUR
IN ON
DFCCIL - WESTERN CORRIDOR

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder



FORMATION LVL.(m)	23060.00	23049.882	23080.00	23063.287	23070.000	23076.713	23100.00	23090.137	23120.00
GROUND LVL.(m)	200.930	200.086	200.086	200.086	200.086	200.086	202.774	203.935	209.539
CHAINAGE (m)	23060.00	23049.882	23080.00	23063.287	23070.000	23076.713	23100.00	23090.137	23120.00

LONGITUDINAL SECTION A-A
(SCALE 1:150)



PLAN
(SCALE 1:150)

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
 2. ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
 3. ALL DIMENSIONS AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 4. THIS GENERAL ARRANGEMENT DRAWING IS INDICATIVE AND IS MEANT ONLY FOR GUIDANCE FOR THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DEVELOPED & DESIGNED BY THE CONTRACTOR AS PER THE EMPLOYER'S REQUIREMENTS, SPECIFICATIONS AND SITE DIMENSIONS / CONDITIONS AND SHALL BE APPROVED BY ENGINEER / EMPLOYER.
 5. ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
 6. FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
 7. LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 8. GROUND PROFILE SHOULD BE VERIFIED BEFORE EXECUTION.
- SUPERSTRUCTURE & SUBSTRUCTURE**
- 1) THE BRIDGE SHALL BE DESIGNED AS PER DFCCI LOADING (32.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO. (WITH LATEST CORRECTION SLIP).
 - 2) THE BRIDGE SHALL BE DESIGNED AS PER THE SEISMIC ZONE FOR THE AREA.
 - 3) BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - 4) WEEP HOLES SHALL BE OF PROVIDED IN RETURN WALL & ABUTMENT.
 - 5) SOE FOUNDATION BOLTS SHALL BE PROVIDED IN CONSULTATION WITH THE CONTRACTOR OF EMP-4.
 - 6) RAILING EXPANSION JOINTS, BEARING, WEARING COAT, FOOTPATH, SERVICE DUCT, DRAINAGE SHALL BE PROVIDED AS PER SPECIFICATION.
 - 7) FOR INSPECTION OF BEARING / SUPERSTRUCTURE, SUITABLE ARRANGEMENT SHALL BE PROVIDED.
 - 8) FOR CHANGING OF BEARING SUITABLE ARRANGEMENT SHALL BE PROVIDED.
- GEO-TECHNICAL**
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT.
 - 2) GEO-TECHNICAL BORE HOLE DATA REFERED IN GAD IS INDICATIVE ONLY.
 - 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE.

TABLE-1	
DETAILS	PROPOSED DFC
PACKAGE	3
SECTOR	9
BRIDGE NO.	839
CHAINAGE	23070.000
SPAN CONFIGURATION (C/C) OF PIER	3X12.2m
OVERALL SPAN (mm)	13375
EFFECTIVE SPAN (mm)	12575
CLEAR SPAN (mm)	12200
TYPE OF STRUCTURE	PRESTRESSED CONTINUOUS BOX
DEPTH OF SUPERSTRUCTURE (mm)	1780
TYPE OF CROSSING	-
BRIDGE (STRAIGHT/CURVE/SKEW)	STRAIGHT
FORMATION LEVEL R.L. (METER)	209.786
H.F.L. R.L. (METER)	205.743
BED LEVEL R.L. (METER)	199.613
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	-
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH - SUITABLE RESTRAINTS)	FIX & FREE

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM / DFCCIL / AJMER	G.G.M. / DESIGN
DY. CPM / DFCCIL / AJMER	G.G.M. / ENGG.
APM / DFCCIL / AJMER	J.G.M. / DESIGN

THIS DRAWING IS THE ORIGINAL PREPARED BY CEG CONSULTING SERVICES (PVT) LTD. CONSULTANT AND REVIEWED / MODIFIED BY THE PROJECT CONSULTANT.

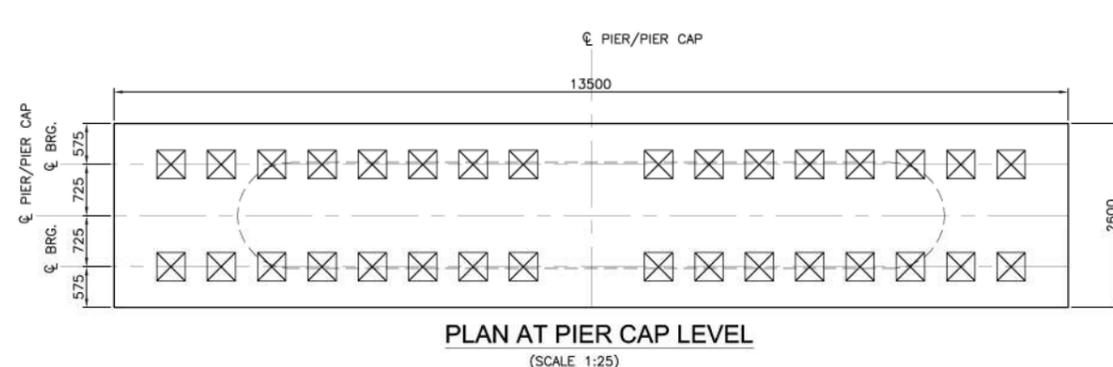
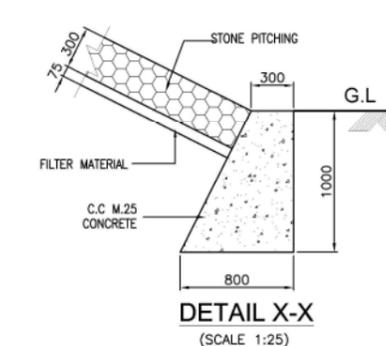
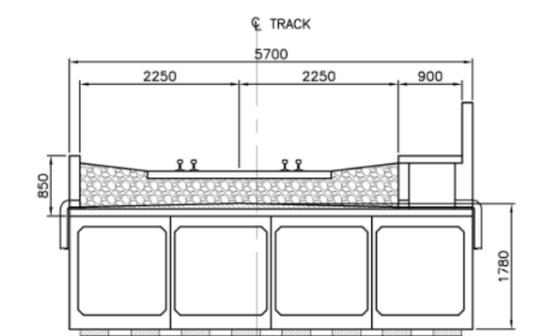
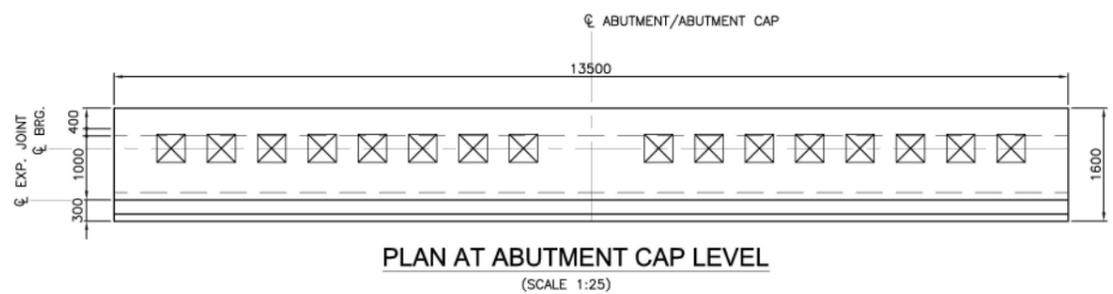
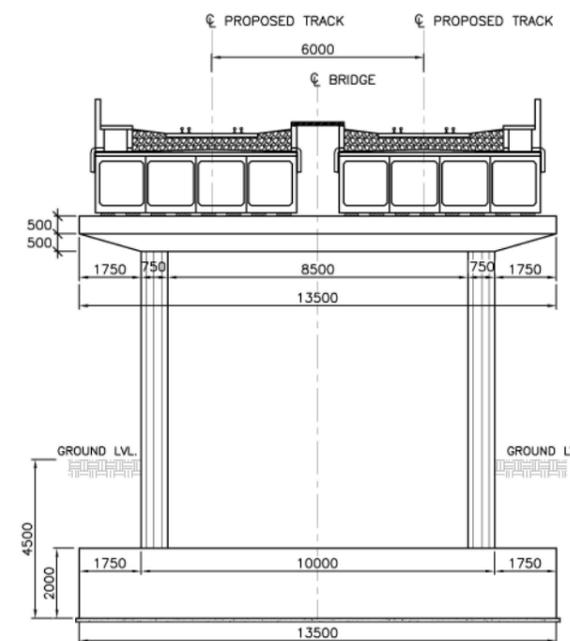
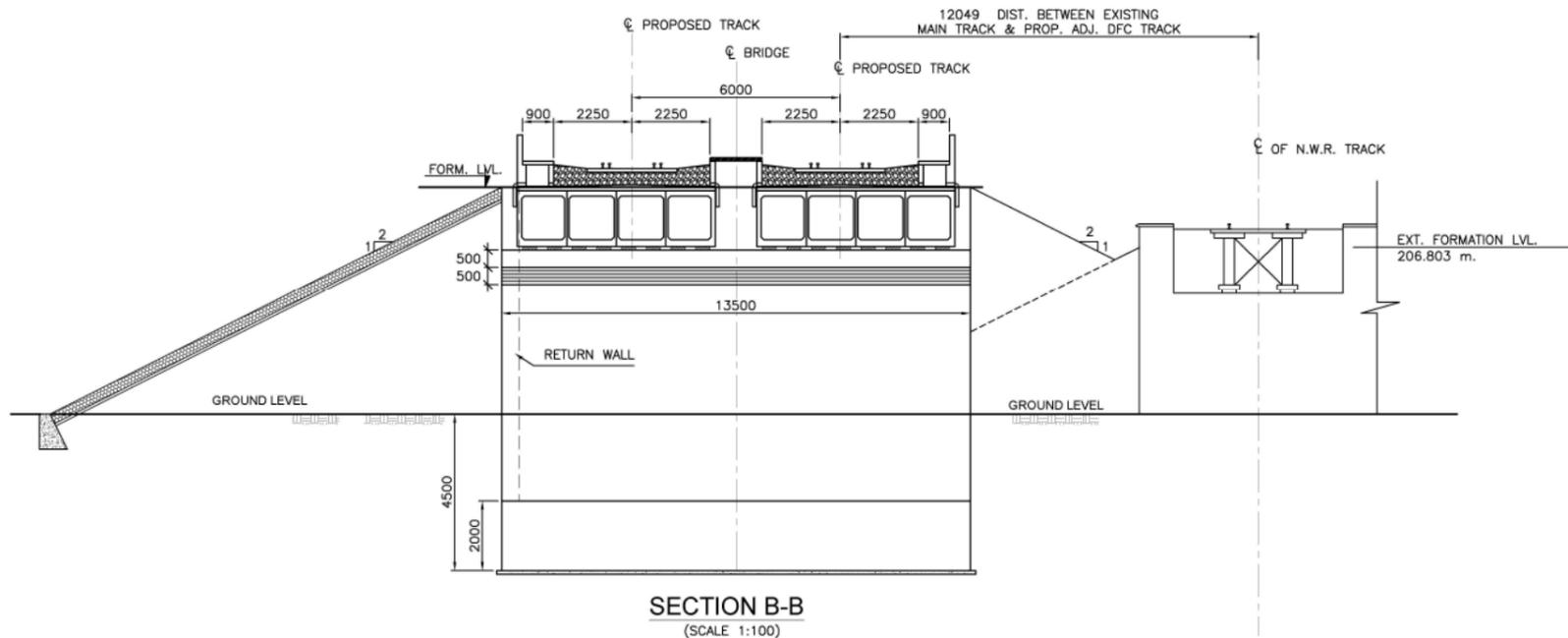
THIS DRAWING IS NOT TO BE USED OR REPRODUCED IN ANY MANNER WITHOUT PRIOR PERMISSION IN WRITING.

CONSULTING ENGINEERS
12, Moji Colony, Malviya Nagar Jaipur-17
Tel: +91-141-2520801, 2521899, 2520556
Fax: 2521899, E-Mail: ceg@cegindia.com

DATE: 01/06/2015 PROJECT NO: 10208
DRAWING NO.: CEG/DFCC-III/SECTION-9/ADI/843

SECTION	09
BRIDGE NO.	839
CHAINAGE	23070.000
KM (NWR)	636/2-3
SPAN	3X12.20 m (PRESTRESSED CONTINUOUS BOX)
DRG. NO.	CPM-III/EN/BR-CAD/SEC-09/839 (1 OF 3)

GENERAL ARRANGEMENT DRAWING
FOR CONSTRUCTION OF BRIDGE NO. 839 (3X12.20m),
PRESTRESSED CONTINUOUS BOX
BETWEEN SRIAMIRGARH - PALANPUR
JN, ON
DFCCIL - WESTERN CORRIDOR



12.2m SPAN (PRESTRESSED CONTINUOUS BOX)
(SCALE 1:50)

REFERENCE DRAWINGS	
DRAWING NO.	SUBJECT
L & T RAMBOLL DWG. NO. DD-221	STRUCTURAL DRAWING
CEG/MADAR-PALANPUR/S9/29	PLAN- PROFILE
BRIDGE NO.	843
H.F.L.	212.031m
FREE BOARD	-
CLEARANCE	0.317m
SCALE	AS SHOWN

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM / DFCCIL / AJMER	G.G.M. / DESIGN
DY. CPM / DFCCIL / AJMER	G.G.M. / ENGG.
APM / DFCCIL / AJMER	J.G.M. / DESIGN

THIS DRAWING WAS ORIGINALLY PREPARED BY CEG CONSULTING ENGINEERS (Pvt.) Ltd. CONSULTANT AND REVISED / MODIFIED BY THE PROJECT ENGINEERING TEAM.

THIS DRAWING IS THE PROPERTY OF RAILWAY, NEW DELHI AND SHALL BE USED ONLY FOR THE PROJECT AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT PRIOR PERMISSION IN WRITING.

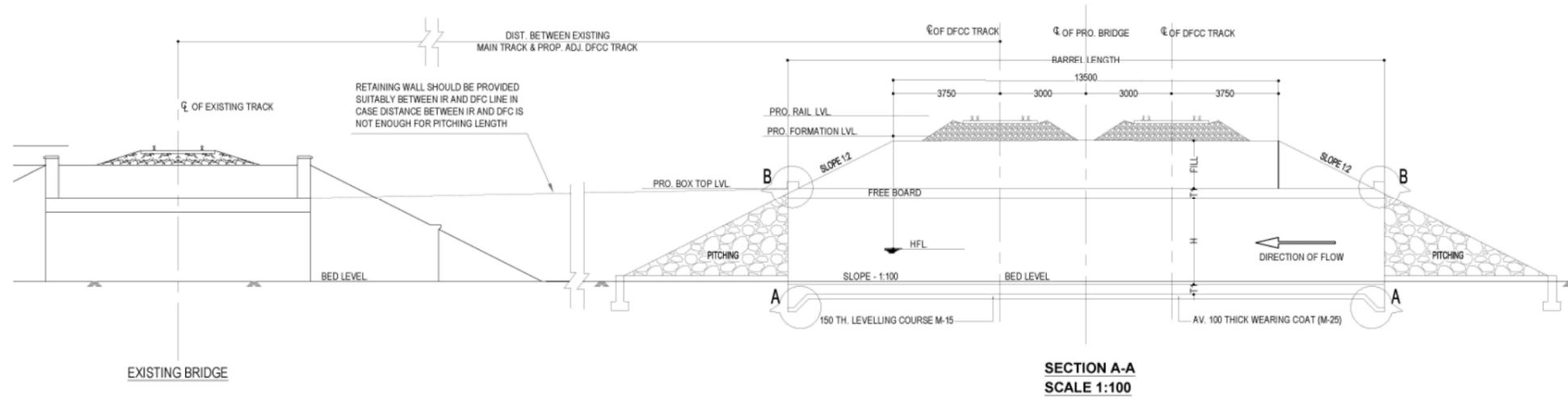
CONSULTING ENGINEERS
E-12, Moji Colony, Malviya Nagar Jaipur-17
Tel: +91-141-2520892, 2521899, 2520556
Fax: 2521899, E-Mail: ceg@ceginia.com

CHECKED BY CONSULTANT: CEG	SECTION NO.	09
	BRIDGE NO.	843
	CHAINAGE KM (NWR)	23070.000 / 636/2-3
	SPAN	3x12.20 m (PRESTRESSED CONTINUOUS BOX)
	DRG. NO.	CPM- AII/ ENR- BR- GAD/ SEC- 09/843 (2 OF 3)

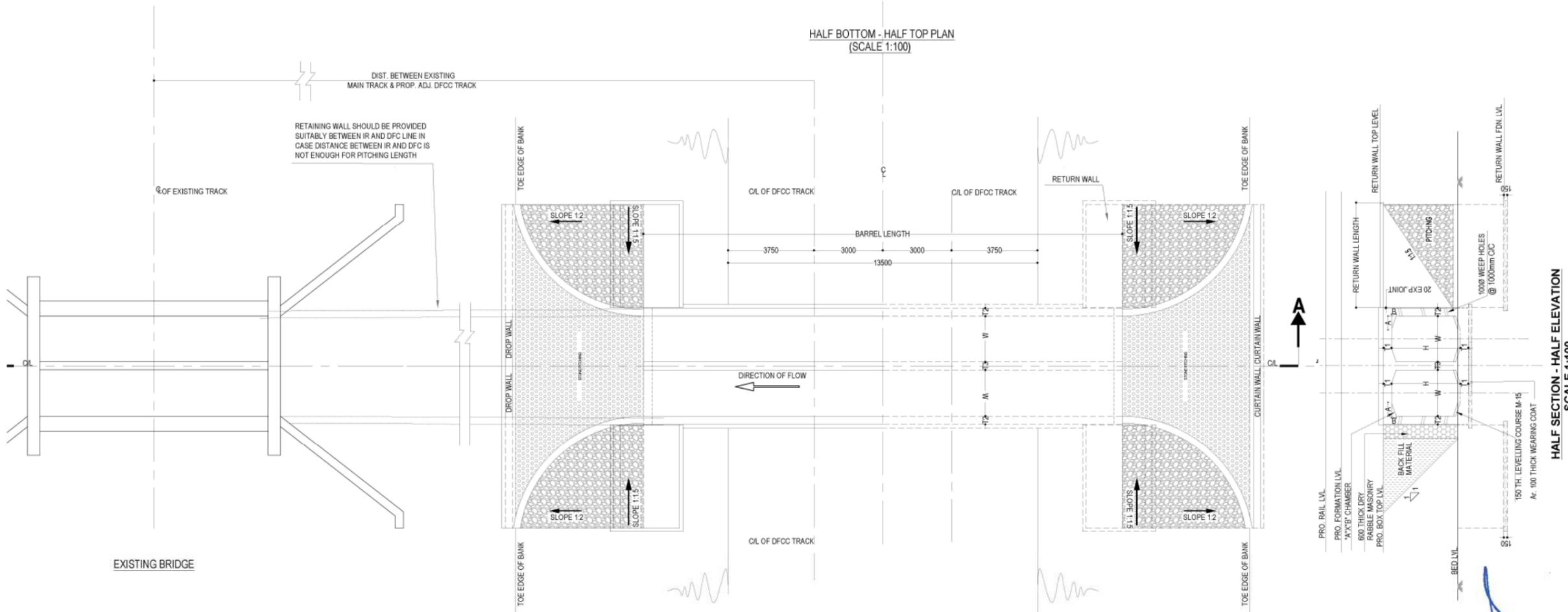
DATE: 01/06/2015 PROJECT NO: 12008
DRAWING NO: CEG/ DFCC- AII/ SECTION- S/AD/843

GENERAL ARRANGEMENT DRAWING
FOR CONSTRUCTION OF BRIDGE NO. 839/3X12.20m.
PRESTRESSED CONTINUOUS BOX
BETWEEN SRIAMIRGARH - PALANPUR
JN. ON
DFCCIL - WESTERN CORRIDOR

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder



SECTION A-A
SCALE 1:100



HALF SECTION - HALF ELEVATION
SCALE 1:100

- GENERAL NOTES:**
- 1) ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
 - 2) ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
 - 3) THIS GENERAL ARRANGEMENT DRAWING IS INDICATIVE AND IS MEANT ONLY FOR GUIDANCE FOR THE BIDDER. ALL THE ENGINEERING DETAILS ARE TO BE DEVELOPED & DESIGNED BY THE CONTRACTOR AS PER THE EMPLOYER'S REQUIREMENTS, SPECIFICATIONS AND SITE DIMENSIONS / CONDITIONS AND SHALL BE APPROVED BY ENGINEER / EMPLOYER.
 - 4) ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING IR BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
 - 5) FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
 - 6) LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 - 7) DURING THE COURSE OF CONSTRUCTION, SAFETY & PROTECTION OF THE PROPOSED WORK AND SAFETY & PROTECTION OF THE RUNNING TRAINS ON THE EXISTING IR TRACKS IS TO BE ENSURED BY THE CONTRACTOR. EXCAVATION / DISMANTLING OF ANY PORTION OF EXISTING BRIDGE OR ANY ELEMENT OF EXISTING PERMANENT WAY OR ANY WORK AFFECTING THE SAFETY OF THE EXISTING BRIDGE / PERMANENT WAY OR SAFETY OF THE RUNNING TRAINS WILL BE CARRIED OUT WITH THE PRIOR WRITTEN APPROVAL OF THE ENGINEER / EMPLOYER.
- SUPERSTRUCTURE & SUBSTRUCTURE**
- 1) SUPERSTRUCTURE SPAN IS 3x7.40m (NON-STANDARD) PSC SOLID SLAB, SPAN LENGTH 7.40 EXPANSION JOINT TO EXPANSION JOINT
 - 2) SUBSTRUCTURE OF BRIDGE SHALL BE DESIGNED AS PER DFCI LOADING (32.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO. (WITH LATEST CORRECTION SLIP)
 - 3) SUBSTRUCTURE SHALL BE DESIGNED TO TAKE CARE OF TEMPORARY STAGE LOADS ALSO.
 - 4) SUBSTRUCTURE OF THE BRIDGE SHALL BE DESIGNED AS PER THE SEISMIC ZONE FOR THE AREA
 - 5) SEISMIC ARRANGEMENT (RESTRAINER) SHALL BE PROVIDED IN SUBSTRUCTURE AS PER SEISMIC FORCES.
- FOUNDATION**
- 1) SCOUR LEVEL SHALL BE AS PER IRS SUB STRUCTURE & FOUNDATION CODE.
 - 2) FOUNDATION LEVEL OF BRIDGE SHALL BE BELOW THE SCOUR LEVEL.
 - 3) SETTLEMENT OF FOUNDATION SHALL BE CHECKED SO THAT IT IS WITHIN ACCEPTABLE LIMIT OF TOTAL & DIFFERENTIAL SETTLEMENTS AS PER CLAUSE 6.1 OF IRS: BRIDGE SUB STRUCTURE & FOUNDATION CODE.
 - 4) SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE DESIGN OF STRUCTURES IF REQUIRED
- GEO-TECHNICAL**
- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT IN DATA BOOK 22.
 - 2) GEO-TECHNICAL BORE HOLE DATA REFERRED IN GAD IS INDICATIVE ONLY.
 - 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE.

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :
Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

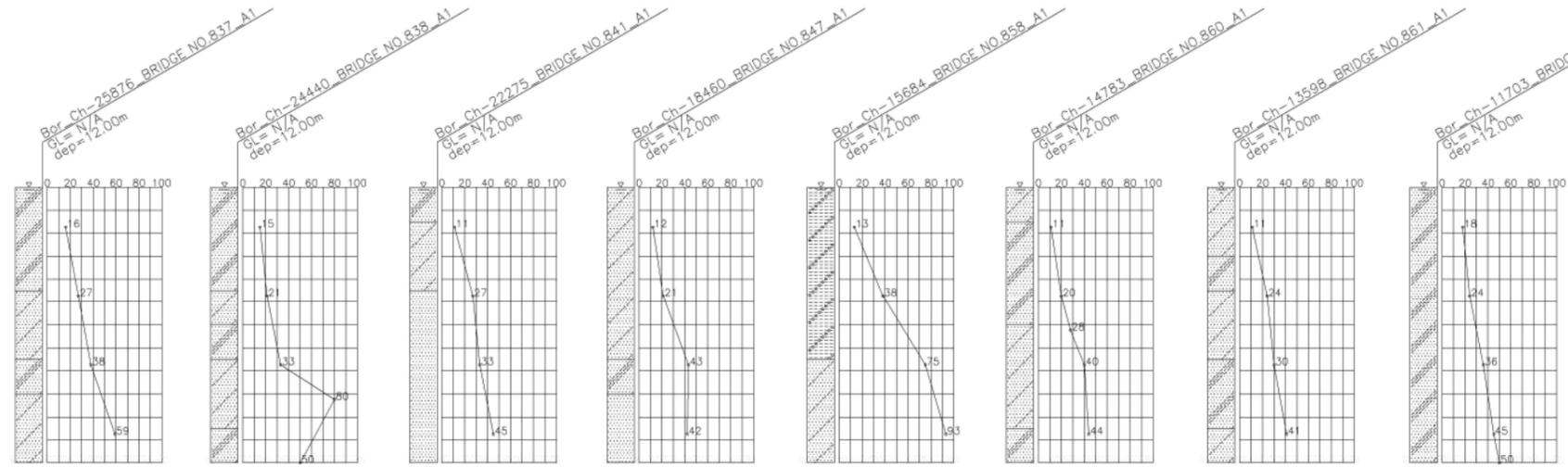
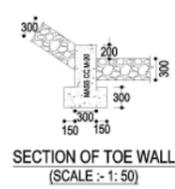
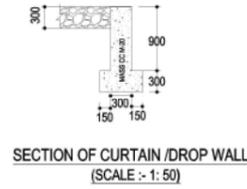
Client :
 **Dedicated Freight Corridor Corporation of India**
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
**GENERAL ARRANGEMENT DRAWING
FOR MINOR BRIDGE
(RCC BOX)**

Drawing Number :
NKC-CTS-BRD-AJ-00001 (SHEET 1 OF 1)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM AJMER
Drawn By :
Checked By :
Approved By :



NK Consortium
4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



CPM	Sec. No.	CHAINAGE		Bridge No.	CLEAR SPAN for Railway Bridges	Nos. of Tracks (Proposed for DFC)	Type of Crossing	Distance between IR and DFC	Formation Level		HFL/ L	FS	Box Culvert Configuration							Return Wall (U/S)			Retaining wall (D/S) (m)	
		DFC	DFC						IR	DFC			Ground Level	Barrel Length (m)	n	W (m)	H (m)	t1 (m)	t2 (m)	BedLevel	Fill (m)	Top LVL (m)		FDN LVL (m)
Ajmer	9	9,773.0	866	866	2 x 1.2m x 1.2m	4	Drain	9.746	229.558	228.542	228.283	-	26.50	2	1.2	1.2	0.30	0.30	227.092	0.050	229.292	225.092	0.089	Same with U/S
Ajmer	9	10,583.0	865	865	1 x 1.2m x 1.2m	5	Drain	27.508	234.154	232.488	231.704	-	32.50	1	1.2	1.2	0.30	0.30	231.038	0.050	233.238	229.038	0.876	Same with U/S
Ajmer	9	11,703.0	864	864	1 x 2.0m x 1.5m	6	Drain	27.873	233.391	233.239	231.934	-	38.50	1	2.0	1.5	0.40	0.40	231.389	0.050	233.989	229.389	1.658	Same with U/S
Ajmer	9	12,033.0	863	863	1 x 1.2m x 1.2m	7	Drain	12.744	232.773	232.579	231.753	-	44.50	1	1.2	1.2	0.30	0.30	231.129	0.050	233.329	229.129	0.939	Same with U/S
Ajmer	9	12,515.0	862	862	1 x 1.2m x 1.2m	6	Drain	9.058	231.448	231.615	230.724	-	38.50	1	1.2	1.2	0.30	0.30	230.165	0.050	232.365	228.165	1.037	Same with U/S
Ajmer	9	13,598.0	861	861	1 x 3.1m x 2.5m	4	Drain	8.860	228.749	229.485	227.332	-	26.50	1	3.1	2.5	0.45	0.45	226.585	0.050	230.235	224.585	2.930	Same with U/S
Ajmer	9	14,783.0	860	860	2 x 3.5m x 2.0m	2	Drain	9.066	227.522	229.121	226.284	226.451	16.20	2	3.5	2.0	0.45	0.45	226.284	0.487	229.871	224.284	3.956	Same with U/S
Ajmer	9	15,190.0	859	859	1 x 1.2m x 1.2m	2	Drain	9.455	227.098	228.633	226.155	226.171	18.60	1	1.2	1.2	0.30	0.30	226.155	1.078	229.383	224.155	3.417	Same with U/S
Ajmer	9	15,684.0	858	858	1 x 1.2m x 1.2m	2	Drain	8.176	226.034	227.349	225.136	225.596	17.60	1	1.2	1.2	0.30	0.30	225.136	0.813	228.099	223.136	3.020	Same with U/S
Ajmer	9	15,726.0	857	857	1 x 3.0m x 2.0m	2	Drain	8.193	225.85	227.223	224.848	224.471	14.50	1	3.0	2.0	0.45	0.45	224.823	0.050	227.973	222.823	3.263	Same with U/S
Ajmer	9	16,016.0	856	856	1 x 1.2m x 2.0m	2	Drain	8.113	224.595	226.353	223.874	223.939	15.20	1	1.2	2.0	0.35	0.35	223.874	0.229	227.103	221.874	3.419	Same with U/S
Ajmer	9	16,436.0	855	855	1 x 2.0m x 2.0m	2	Drain	12.885	224.856	225.921	223.863	223.966	14.50	1	2.0	2.0	0.45	0.45	223.521	0.050	226.671	221.521	2.787	Same with U/S
Ajmer	9	17,619.0	850	850	1 x 1.2m x 1.2m	2	Drain	23.137	223.838	223.205	223.094	222.610	14.50	1	1.2	1.2	0.30	0.30	221.755	0.050	223.955	219.755	-0.133	Same with U/S
Ajmer	9	17,803.0	849	849	1 x 1.2m x 1.2m	2	Drain	19.724	222.768	222.469	221.532	221.832	14.50	1	1.2	1.2	0.30	0.30	221.019	0.050	223.219	219.019	1.105	Same with U/S
Ajmer	9	18,460.0	847	847	1 x 1.2m x 1.2m	2	Drain	9.460	218.88	219.505	218.954	218.759	14.50	1	1.2	1.2	0.30	0.30	218.055	0.050	220.255	216.055	0.526	Same with U/S
Ajmer	9	19,151.0	846	846	1 x 1.5m x 2.5m	2	Drain	10.154	214.096	216.245	214.049	213.122	14.50	1	1.5	2.5	0.35	0.35	213.445	0.050	216.995	211.445	2.994	Same with U/S
Ajmer	9	20,196.0	844	844	1 x 3.0m x 5.0m	2	Drain	10.242	210.86	213.734	203.836	204.813	31.50	1	3.0	5.0	0.70	0.80	203.836	4.298	214.484	201.836	14.547	Same with U/S
Ajmer	9	21,680.0	842	842	1 x 1.2m x 1.2m	2	Drain	33.73	213.23	214.601	212.541	213.000	16.90	1	1.2	1.2	0.30	0.30	212.541	0.660	215.351	210.541	2.790	Same with U/S
Ajmer	9	22,275.0	841	841	1 x 2.0m x 3.0m	2	Drain	12.325	210.635	212.261	207.442	209.073	20.40	1	2.0	3.0	0.40	0.40	207.442	1.519	213.011	205.442	6.929	Same with U/S
Ajmer	9	22,511.0	840	840	1 x 2.0m x 2.0m	2	Drain	13.694	209.162	211.317	209.292	209.255	14.50	1	2.0	2.0	0.40	0.40	208.967	0.050	212.067	206.967	2.738	Same with U/S
Ajmer	9	23,810.0	838A	838A	1 x 1.2m x 1.2m	2	Drain	9.980	210.095	211.328	210.242	209.101	14.50	1	1.2	1.2	0.30	0.30	209.878	0.050	212.078	207.878	1.329	Same with U/S
Ajmer	9	24,440.0	838	838	1 x 3.5m x 3.5m	2	Drain	10.400	210.59	221.401	207.364	208.910	58.00	1	3.5	3.5	0.45	0.45	207.364	10.187	222.151	205.364	20.756	Same with U/S
Ajmer	9	25,876.0	837	837	1 x 1.2m x 1.2m	2	Drain	10.680	209.766	210.934	208.718	209.324	17.60	1	1.2	1.2	0.30	0.30	208.718	0.816	211.684	206.718	3.024	Same with U/S
Ajmer	9	26,089.0	836	836	1 x 3.0m x 2.0m	2	Drain	11.160	209.568	210.189	208.945	208.788	14.50	1	3.0	2.0	0.45	0.45	207.789	0.050	210.959	205.789	1.566	Same with U/S

- (i) F.L is based on the alignment drawing modified by NKC and should be reconfirmed in detailed design survey.
- (ii) G.L is based on GAD prepared by CPM and should be reconfirmed in detailed design and survey.
- (iii) Nos. of Track shall be confirmed from FLS & Station Yard Plan
- (iv) Retaining wall between DFC and IR is to be designed suitably.
- (v) Berm of 1.5 m width shall be provided on the slope of every 6 m height.
- (vi) Barrel Length may vary as per site condition.

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

Project Title :
Dedicated Freight Corridor Project
(Western Corridor Phase-1:
Rewari - Vadodara Section)

Client :
 Dedicated Freight Corridor Corporation of India
(A GOVERNMENT OF INDIA UNDERTAKING)
5th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA

Drawing Title :
**GENERAL ARRANGEMENT DRAWING
FOR MINOR BRIDGE
(RCC BOX)**

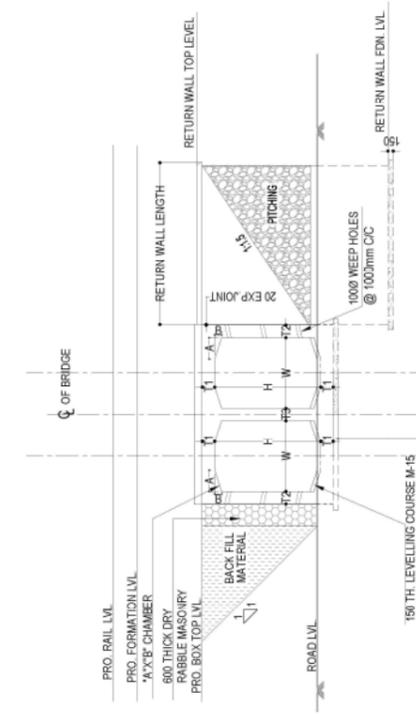
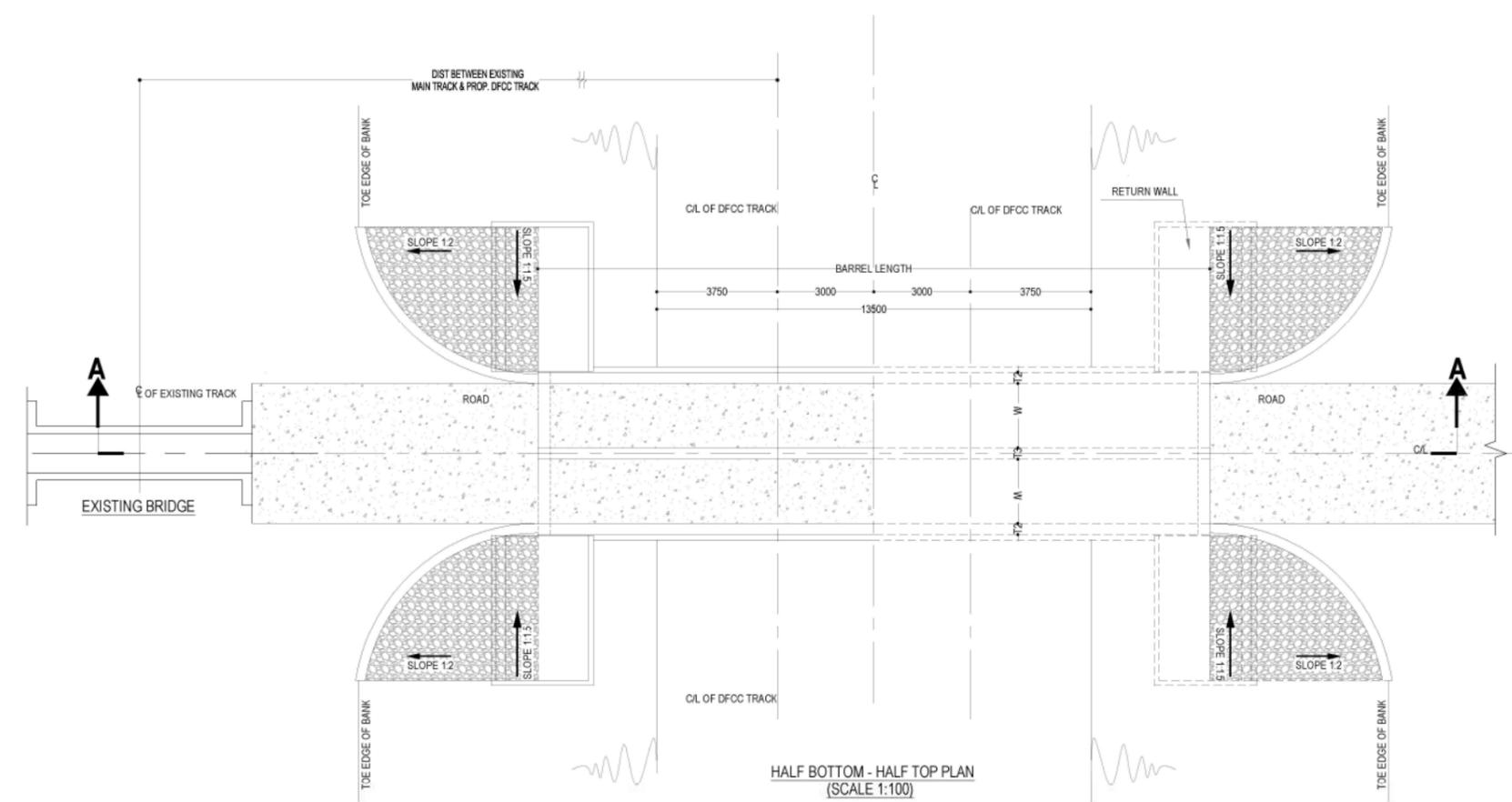
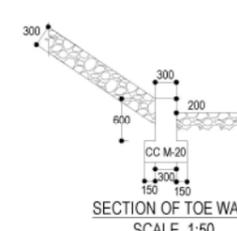
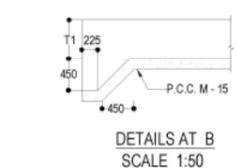
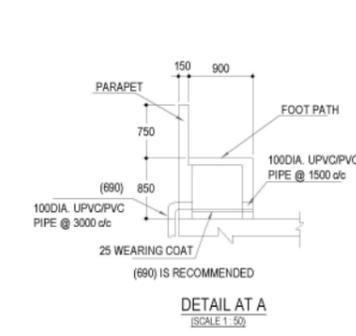
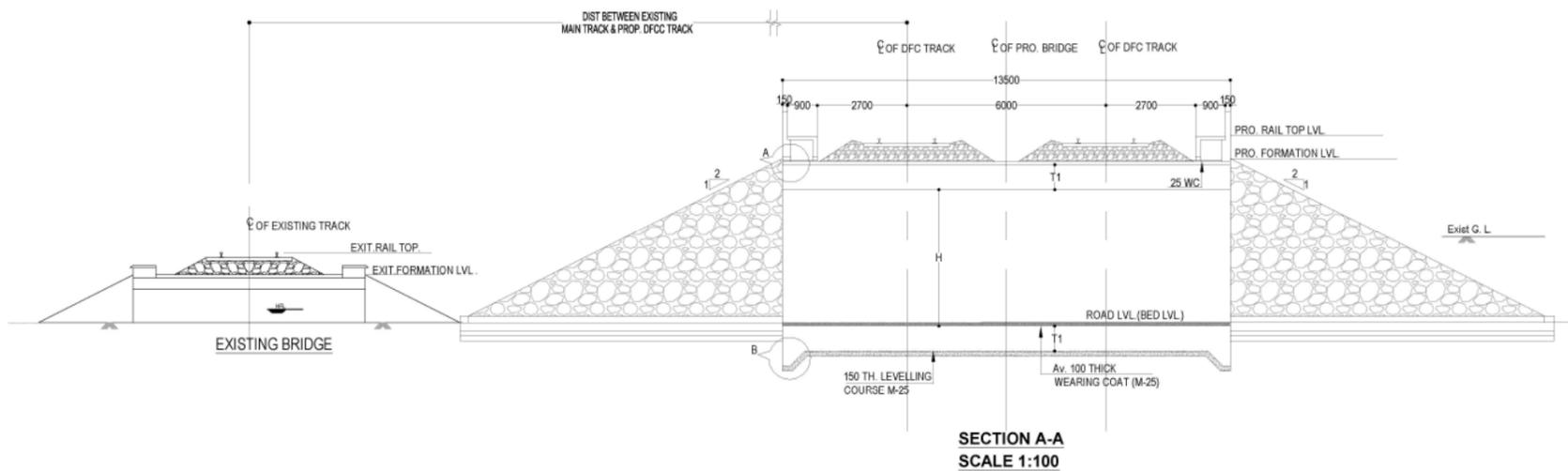
Drawing Number :
NKC-CTS-BRD-AJ-00001 (SHEET 2 OF 3)

Scale :
AS SHOWN

Reference :
GAD PREPARED BY CPM AJMER

Drawn By :
Checked By :
Approved By :

NK Consortium
4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA



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 - 2) SUBSTRUCTURE OF BRIDGE SHALL BE DESIGNED AS PER DFCC/LOADING (32.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO, (WITH LATEST CORRECTION SLIP).
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 - 2) FOUNDATION LEVEL OF BRIDGE SHALL BE BELOW THE SCOUR LEVEL.
 - 3) SETTLEMENT OF FOUNDATION SHALL BE CHECKED SO THAT IT IS WITHIN ACCEPTABLE LIMIT OF TOTAL & DIFFERENTIAL SETTLEMENTS AS PER CLAUSE 6.1 OF IRS. BRIDGE SUB STRUCTURE & FOUNDATION CODE.
 - 4) SAFE BEARING CAPACITY OF SOIL SHALL BE DETERMINED BY SUITABLE METHOD BEFORE DESIGN OF STRUCTURES IF REQUIRED
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- 1) FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT IN DATA BOOK 22.
 - 2) GEO-TECHNICAL BORE HOLE DATA REFERED IN GAD IS INDICATIVE ONLY.
 - 3) DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE.

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

<p>Project Title : Dedicated Freight Corridor Project (Western Corridor Phase-1: Rewari - Vadodara Section)</p>	<p>Client :  Dedicated Freight Corridor Corporation of India (A GOVERNMENT OF INDIA UNDERTAKING) 5th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p>	<p>Drawing Title : GENERAL ARRANGEMENT DRAWING FOR RUB (RCC BOX)</p>	<p>Drawing Number : NKC-CTS-RRB-AJ-00002 (SHEET 01 OF 2)</p> <p>Scale : AS SHOWN</p> <p>Reference : GAD PREPARED BY CPM AJMER</p> <p>Drawn By : _____ Checked By : _____ Approved By : _____</p> <p style="text-align: right;">4th Floor, Pragati Maidan Metro Station Building, New Delhi-110001, INDIA</p> <div style="text-align: center;">   <p>NK Consortium</p> </div>
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CPM	Sec. No.	CHAINAGE		Bridge No.		CLEAR SPAN for Railway Bridges	Nos. of Tracks (Proposed for DFC)	Type of Crossing	Distance between IR and DFC	Formation Level	Ground Level	Box Culvert Configuration							Return Wall (U/S)			Retaining wall (D/S) (m)		
		IR	DFC	IR	DFC							Barrel Length (m)	n	W (m)	H (m)	t1 (m)	t2 (m)	t3 (m)	Road Level	Fill (m)	Top LVL (m)		FDN LVL (m)	Length (m)
Ajmer	9	648/6-7	8,938.0	LC 165	866B	2 x 5.0m x 4.1m	1	Road	12.524	224.367	220.267	7.5	2	5.0	4.1	0.65	0.65	0.65	219.667	0.050	225.117	217.667	6.750	Same with U/S
Ajmer	9	-	780.0	LC 165	866A	2 x 5.0m x 4.1m	3	Road	-	224.367	224.559	19.5	2	5.0	4.1	0.65	0.65	0.65	219.667	0.050	225.117	217.667	6.750	Same with U/S
Ajmer	9	647/1-2	10,468.0	LC 164	865A	1 x 4.5m x 4.1m	4	Road	26.281	231.947	227.847	25.5	1	4.5	4.1	0.65	0.65	-	227.247	0.050	232.697	225.247	6.750	Same with U/S
Ajmer	9	645/4-5	12,290.0	LC 163	862A	1 x 4.5m x 4.1m	6	Road	9.328	232.309	228.209	37.5	1	4.5	4.1	0.65	0.65	-	227.609	0.050	233.059	225.609	6.750	Same with U/S
Ajmer	9	643/7-8	13,848.0	LC 162	860A	2 x 4.5m x 4.1m	2	Road	8.849	229.485	225.385	13.5	2	4.5	4.1	0.65	0.65	0.65	224.785	0.050	230.235	222.785	6.750	Same with U/S
Ajmer	9	641/6-7	15,925.0	LC 161	856A	2 x 4.5m x 4.6m	2	Road	8.151	226.626	222.026	13.5	2	4.5	4.6	0.65	0.65	0.65	221.426	0.050	227.376	219.426	7.500	Same with U/S
Ajmer	9	640/9-10	16,638.0	LC 160	851C	2 x 4.5m x 5.1m	2	Road	22.745	225.921	220.821	13.5	2	4.5	5.1	0.65	0.65	0.65	220.221	0.050	226.671	218.221	8.250	Same with U/S
Ajmer	9	639/1-2	18,438.0	LC 158	847A	1 x 4.5m x 4.1m	2	Road to NH-14	9.610	219.611	215.511	13.5	1	4.5	4.1	0.65	0.65	-	214.911	0.050	220.361	212.911	6.750	Same with U/S
Ajmer	9	634/1-2	23,440.0	LC 155	838B	2 x 4.5m x 4.1m	2	Road	11.880	210.434	206.334	13.5	2	4.5	4.1	0.65	0.65	0.65	205.734	0.050	211.184	203.734	6.750	Same with U/S
Ajmer	9	632/5-6	25,100.0	LC 154	837A	2 x 4.5m x 4.1m	2	Road	10.550	211.401	207.301	13.5	2	4.5	4.1	0.65	0.65	-	206.701	0.050	212.151	204.701	6.750	Same with U/S

- (i) F.L is based on the alignment drawing modified by NKC and should be reconfirmed in detailed design survey.
- (ii) G.L is based on GAD prepared by CPM and should be reconfirmed in detailed design and survey.
- (iii) Nos. of Track shall be confirmed from FLS & Station Yard Plan
- (iv) Retaining wall between DFC and IR is to be designed suitably.
- (v) Berm of 1.5 m width shall be provided on the slope of every 6 m height.
- (vi) Barrel Length may vary as per site condition.

Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

NK Consortium
 4th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA

Project Title :
**Dedicated Freight Corridor Project
 (Western Corridor Phase-1:
 Rewari - Vadodara Section)**

Client :

Dedicated Freight Corridor Corporation of India
(A GOVERNMENT OF INDIA UNDERTAKING)
 5th Floor, Pragati Maidan Metro Station Building,
 New Delhi-110001, INDIA

Drawing Title :
**GENERAL ARRANGEMENT DRAWING
 FOR RUB
 (RCC BOX)**

Drawing Number :
NKC-CTS-RRB-AJ-00002 (SHEET 2 OF 2)

Scale :
AS SHOWN

Reference :
GAD PREPARED BY CPM AJMER

Drawn By : _____ Checked By : _____ Approved By : _____