

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

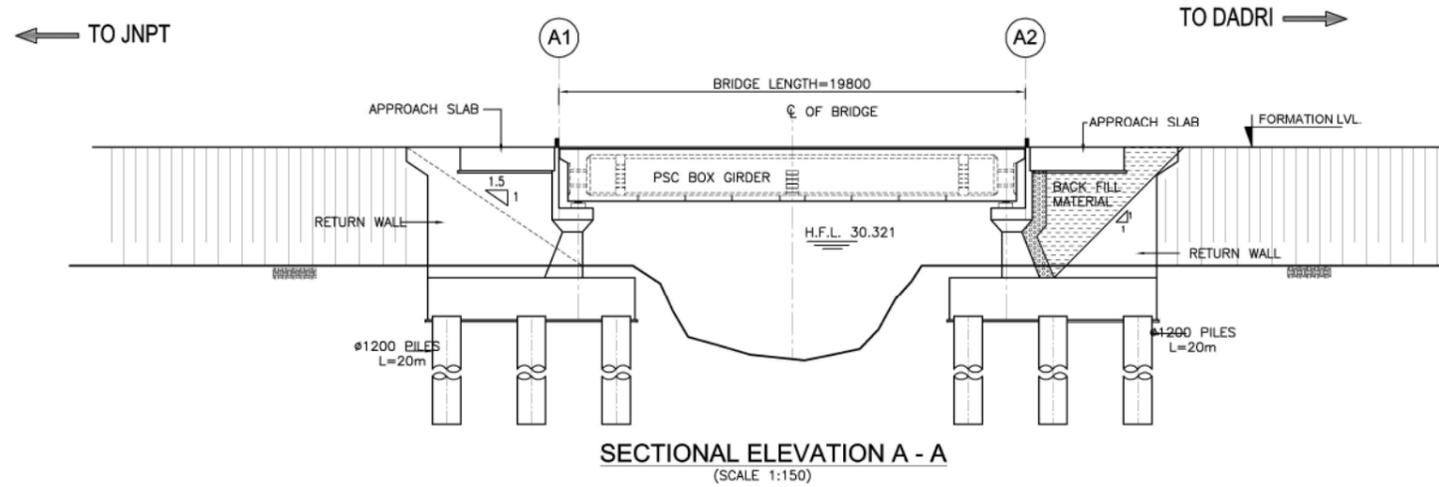


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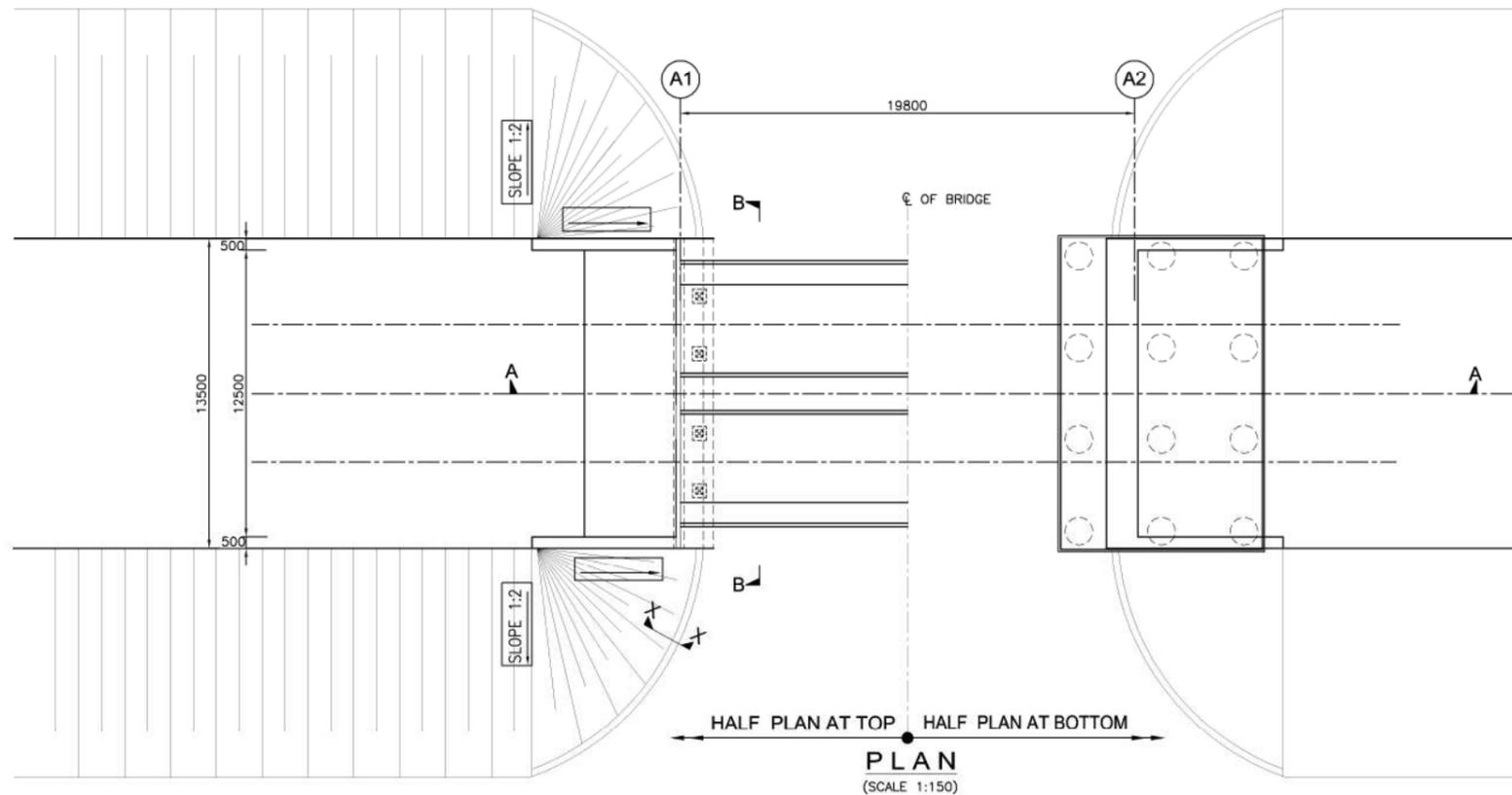
CONSULTING Engineers Group Ltd
E-12, Moji Colony, Malviya Agar Jaipur-17
Tel: +91-141-2520899, 2521899, 2520556
Fax: 2521899, E-Mail:ceg@ceginia.com

REFERENCE DRAWINGS:	
DRAWING NO	SUBJECT
CEG/SACHIN-NADIADI/PLAN-PROFILES-910	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M / DFCC	CPM/DDFCC
MANAGER / DFCC	GGM(Engg.H)
ASSET MANAGER / DFCC	
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD	
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)	
CLIENT: - 	
TITLE: - SECTION NO. 05 (VASAD - PALEJ) ON DETOUR CONSTRUCTION OF BRIDGE NO. 297, (FOR RAVINES AREA), 10X30.50m. PSC BOX GIRDER AT KM. (REV. CH.158518.00), GENERAL ARRANGEMENT DRAWING (SHEET 5 OF 5)	
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 11:48am
PROJECT NO: 12008	DRG NO: CEG/SACHIN-NADIADI/GAD-BRIDGE IS-5297
APPROVED BY: G.U.R.	



FORMATION LVL.(m)		33.774	33.814	33.824	33.873
GROUND LVL.(m)		29.000	28.790	28.790	30.000
CHAINAGE(m)		163200.42	163208.34	163210.320	163220.22

SECTIONAL ELEVATION A-A
(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 IR 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 PROVIDED IN RETURN WALL & ABUTMENT.
 - 5) JOE 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	5
BRIDGE NO.	307
CHAINAGE	163210.320
SPAN CONFIGURATION	1X18.3m
OVERALL SPAN (mm)	19750
CLEAR SPAN (mm)	16300
TYPE OF STRUCTURE	POST TENSIONED BOX GIRDER
DEPTH OF SUPERSTRUCTURE (mm)	2280
TYPE OF CROSSING	LOCAL STREAM
BRIDGE (STRAIGHT/CURVE/SKEW)	STRAIGHT
FORMATION LEVEL R.L. (METER)	33.824
H.F.L. R.L. (METER)	30.321
BED LEVEL R.L. (METER)	24.824
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	-
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH - SUITABLE RESTRAINTS)	FIX & FREE

REFERENCE DRAWINGS:	
DRAWING NO	SUBJECT
CEGISACHIN-NADIAD/PLAN-PROFILE/S-510	L-SECTION

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G M / DFCC	CPM/DFCC
MANAGER / DFCC	GGM(Engg.H)
ASSET MANAGER / DFCC	

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)



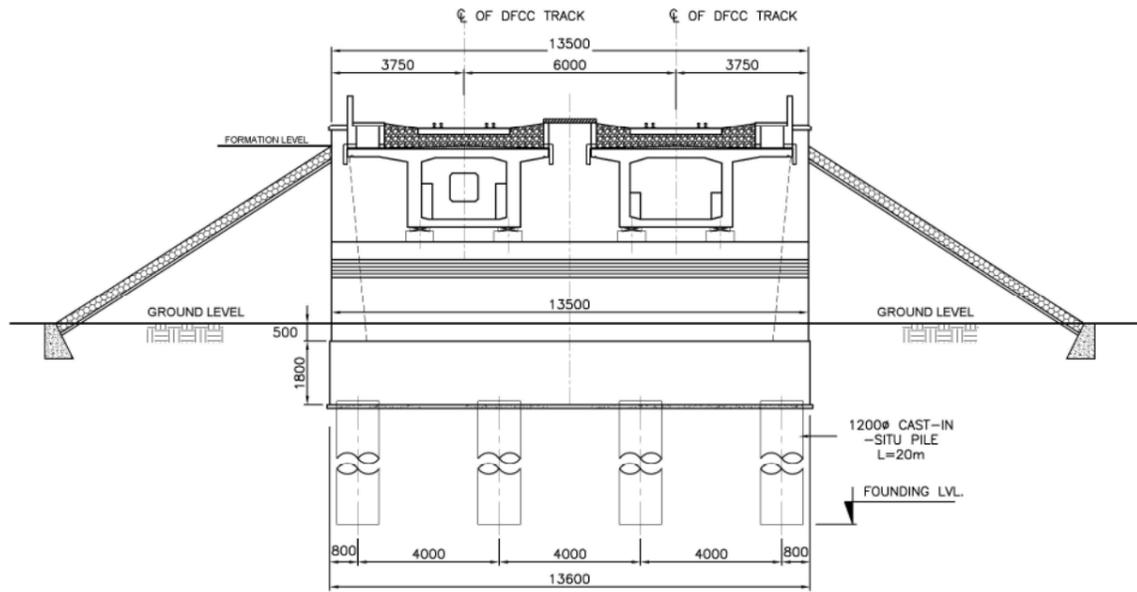
TITLE:- SECTION NO. 05 (VASAD - PALEJ) ON DETOUR CONSTRUCTION OF BRIDGE NO. 307, (FOR LOCAL STREAM), 1X18.30m. PSC BOX GIRDER AT KM. (REV. CH.163210.320). GENERAL ARRANGEMENT DRAWING (SHEET -1 OF 2)



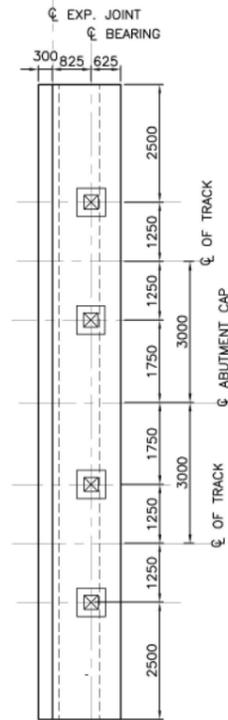
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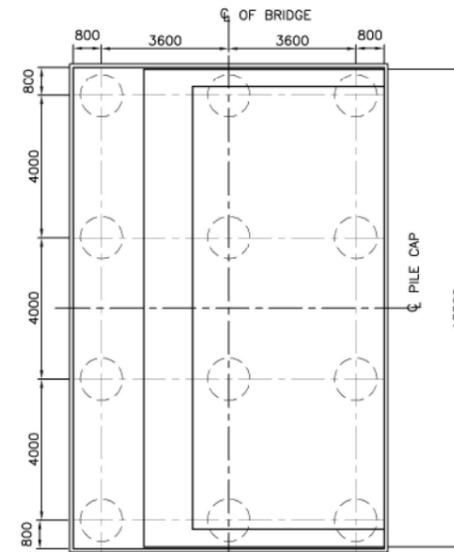
DRAWN BY: R.K.Y	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN		REV. No.
PROJECT NO. 12008	DRG NO. CEGISACHIN-NADIAD/ GAD-BRIDGE-IS-5307	



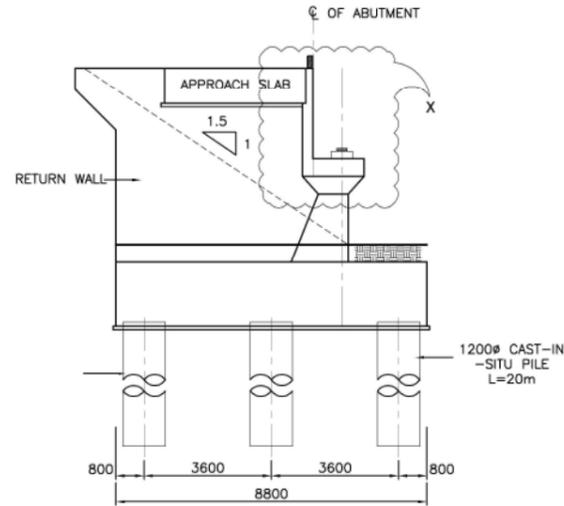
SECTION B-B
(SCALE 1:100)



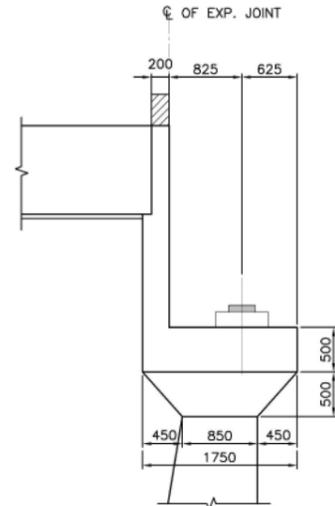
PLAN AT ABUTMENT CAP LVL.
(SCALE 1:75)



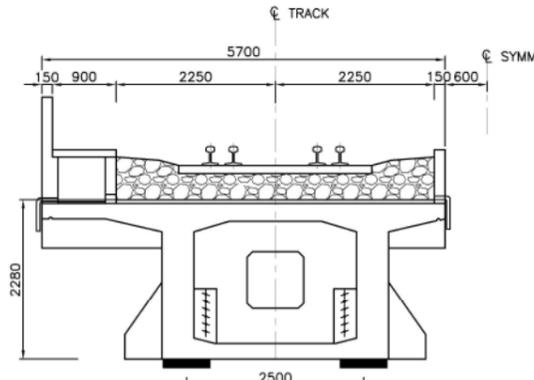
PLAN AT PILE CAP TOP LEVEL
(SCALE 1:100)



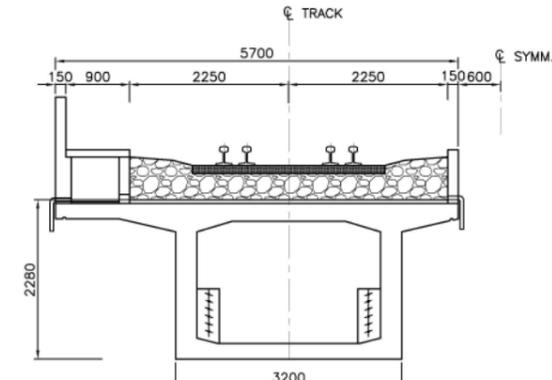
DETAIL OF ABUTMENT
(SCALE 1:75)



DETAIL - X
(SCALE 1:40)

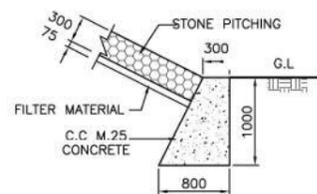


SECTION AT SUPPORT
(SCALE 1:50)

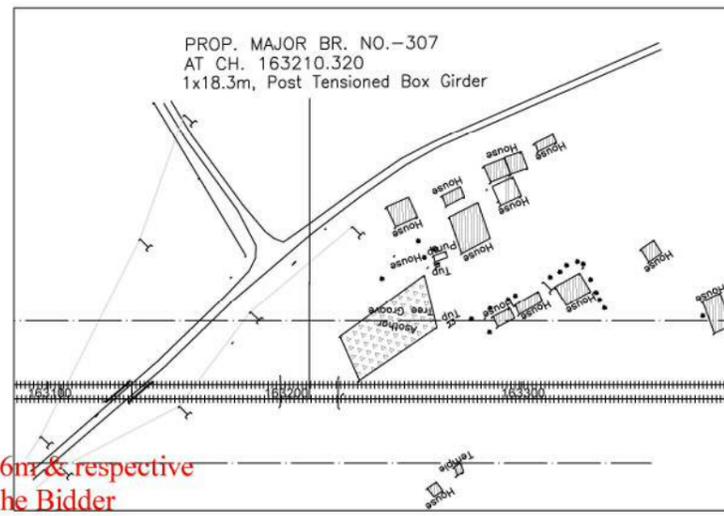


SECTION AT MID SPAN
(SCALE 1:50)

18.3m (SPAN POST TENSION BOX GIRDER)



SECTION X-X
(SCALE 1:40)



KEY PLAN

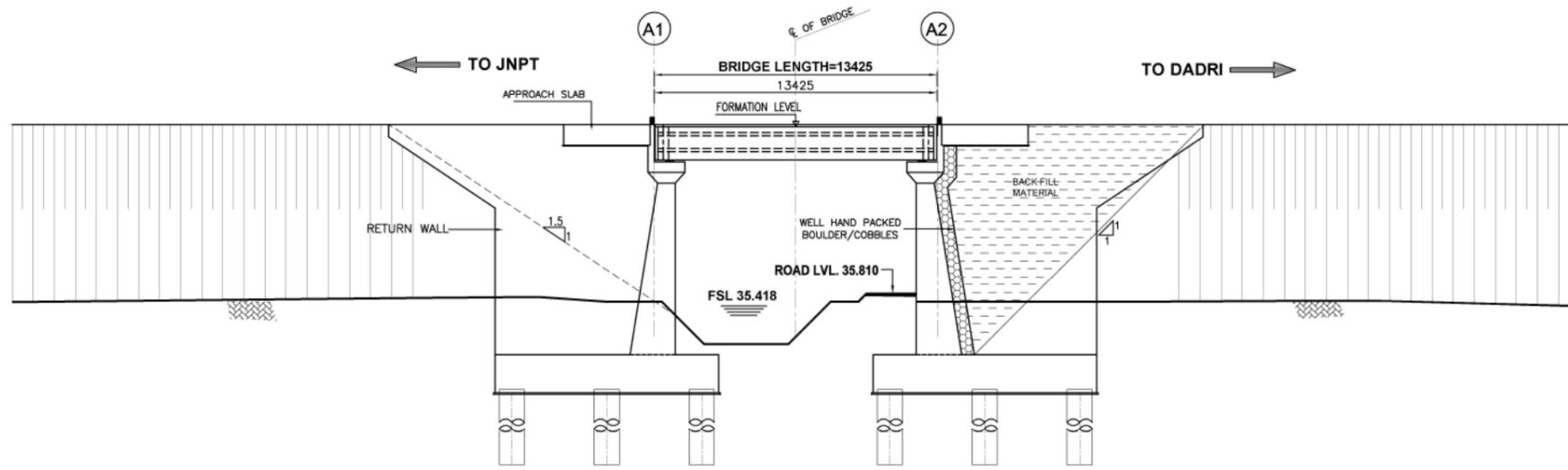
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CONSULTING Engineers Group Ltd. E-12, Moji Colony, Malviya Agar Jaipur-17. Tel: +91-141-2520899, 2521899, 2520556 Fax: 2521899, E-Mail: ceg@ceginia.com

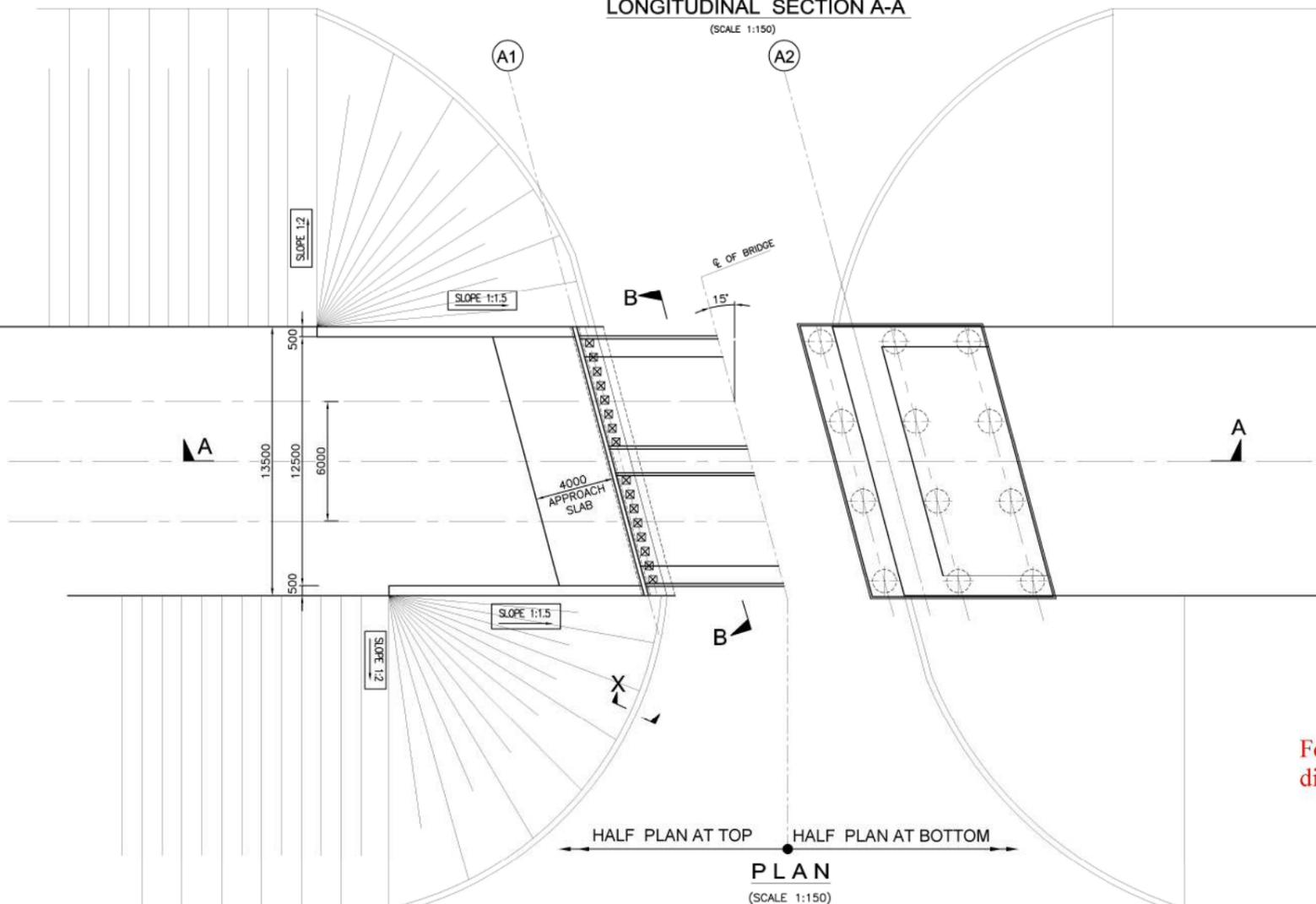
REFERENCE DRAWINGS:	
DRAWING NO	SUBJECT
CEG/SACHIN-NADIADY/PLAN-PROFILE/S-510	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G M / DFCC	CPMDDFCC
MANAGER / DFCC	GGM(Engg.)H
ASSET. MANAGER / DFCC	
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.	
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)	
CLIENT: -	
TITLE:- SECTION NO. 05 (VASAD - PALEJ) ON DETOUR CONSTRUCTION OF BRIDGE NO. 307, (FOR LOCAL STREAM), 1X18.30m, PSC BOX GIRDER AT KM. (REV. CH.163210.320, GENERAL ARRANGEMENT DRAWING (SHEET : 2 OF 2)	
DRAWN BY: R.K.Y	CHECKED BY: V.K.S.
SCALE: - AS SHOWN	APPROVED BY: G.U.R.
PROJECT NO. 12008	REV. No.
DRG. NO.:	CEG/SACHIN-NADIADY/GAD-BRIDGE/S-5307



FORMATION LEVEL	43.600	43.700	43.737	43.800	43.900
GROUND LEVEL	35.400	35.190		35.810	35.720
CHAINAGE	166646.34	166668.34	166675.690	166688.34	166708.34

LONGITUDINAL SECTION A-A

(SCALE 1:150)



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 8. GROUND PROFILE SHOULD BE VERIFIED BEFORE EXECUTION.

SUPERSTRUCTURE & SUBSTRUCTURE

- 1) THE BRIDGE SHALL BE DESIGNED AS PER DFCC LOADING (32.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO, (WITH LATEST CORRECTION SLP).
- 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 PROVIDED IN RETURN WALL & ABUTMENT.
- 5) THE FOUNDATION BOLTS SHALL BE PROVIDED IN CONSULTATION WITH THE CONTRACTOR OF EMP-4.
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TABLE-1

DETAILS	PROPOSED DFC
PACKAGE	3
SECTOR	5
BRIDGE NO.	320
CHAINAGE	166675.690
SPAN CONFIGURATION	1X12.2m
OVERALL SPAN (mm)	13378
EFFECTIVE SPAN (mm)	-
CLEAR SPAN (mm)	12200
TYPE OF STRUCTURE	PRESTRESSED CONTIGUOUS BOX
DEPTH OF SUPERSTRUCTURE (mm)	1780
TYPE OF CROSSING	CANAL
BRIDGE (STRAIGHT/CURVE/SKEW)	SKEW - 15°
FORMATION LEVEL (METER)	43.737
BED LEVEL (METER)	33.400
F.S.L. (METER)	35.418
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	-
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH - SUITABLE RESTRAINTS)	FIX - FREE

REFERENCE DRAWINGS:

DRAWING NO	SUBJECT
CEG/SACHIN-NADIADI/PLAN-PROFILE/S-59	L-SECTION

APPROVED

DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET. MANAGER / DFCC	GGM/Engg.-I

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.

PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)

CLIENT: -



TITLE: - SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 320 (CANAL), 1X12.20m. PRESTRESSED CONTIGUOUS BOX AT (REV CH. 166675.690) GENERAL ARRANGEMENT DRAWING (SHEET: 1 OF 3)

DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 11:50am	REV. No.
PROJECT NO: 12008	DRG NO: CEG/SACHIN-NADIADI/ GAD-BRIDGE /S-59/20	

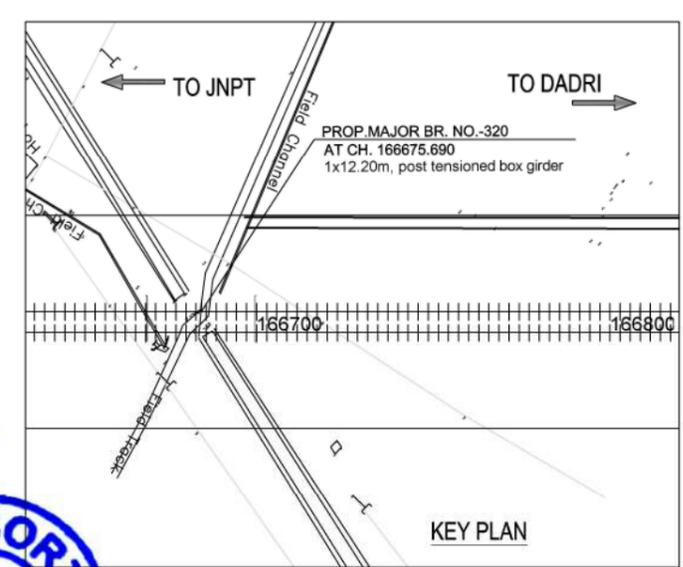
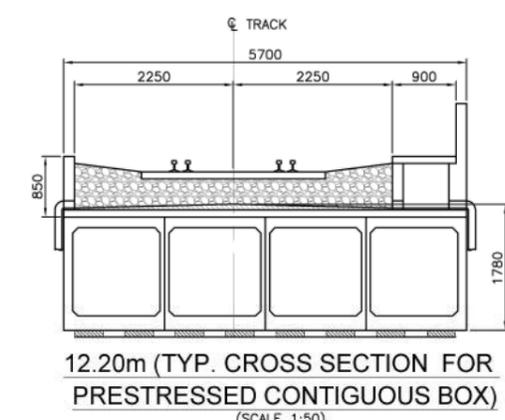
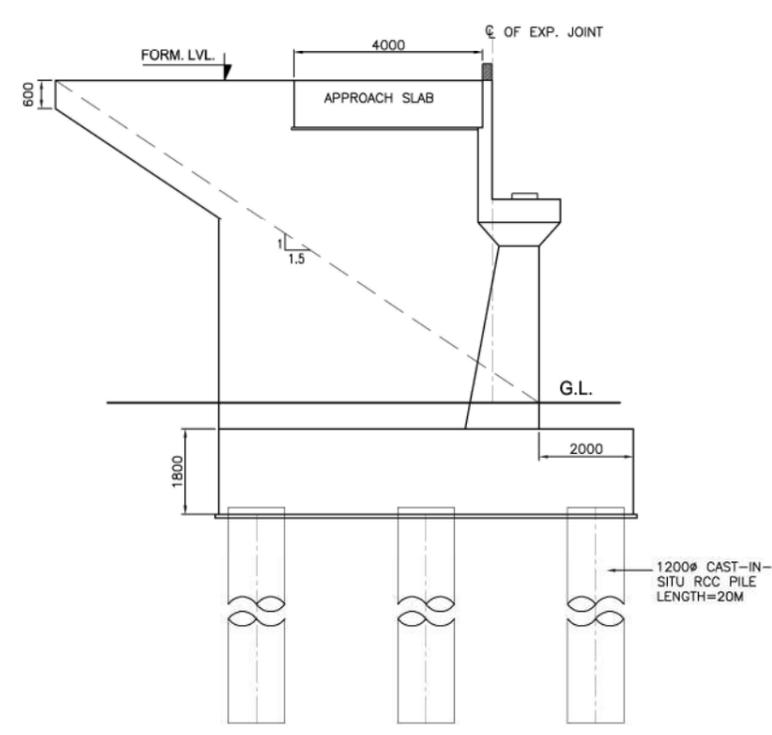
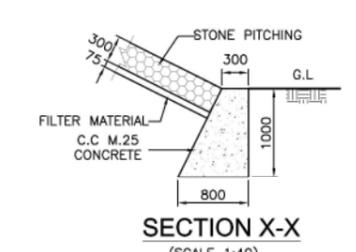
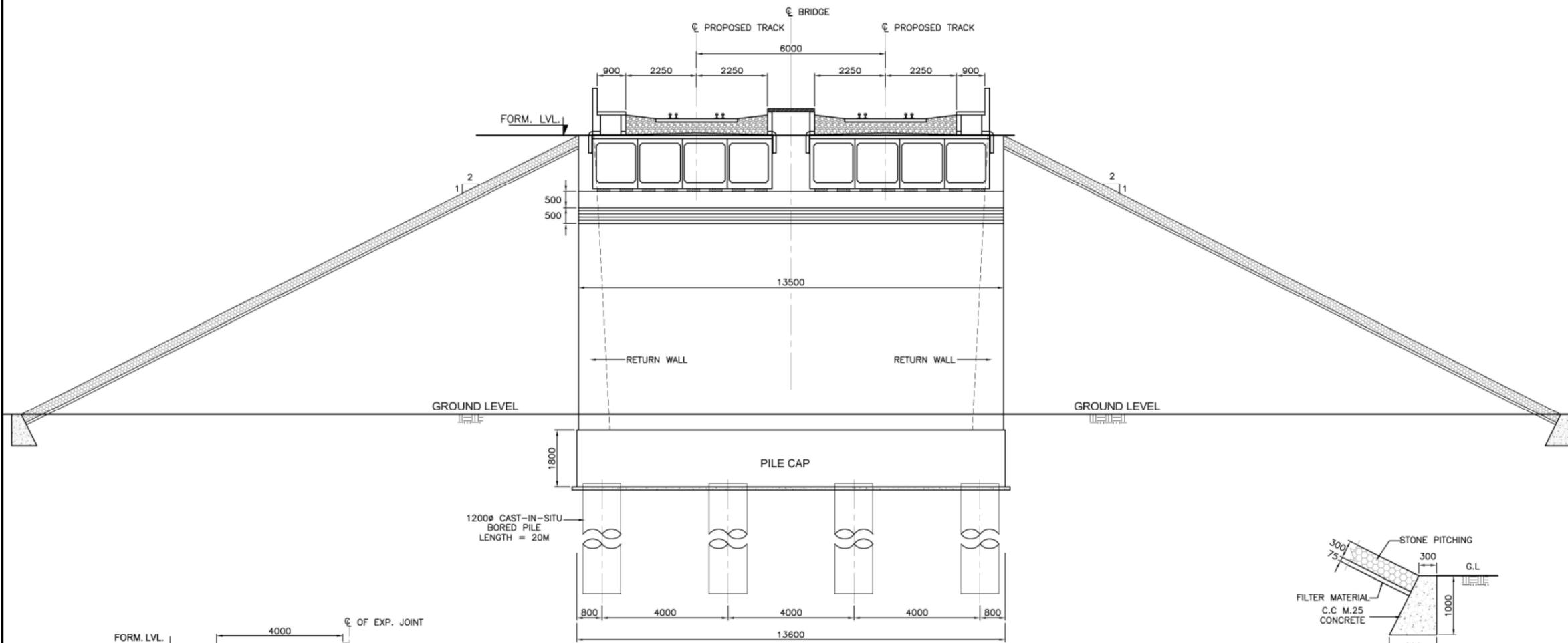


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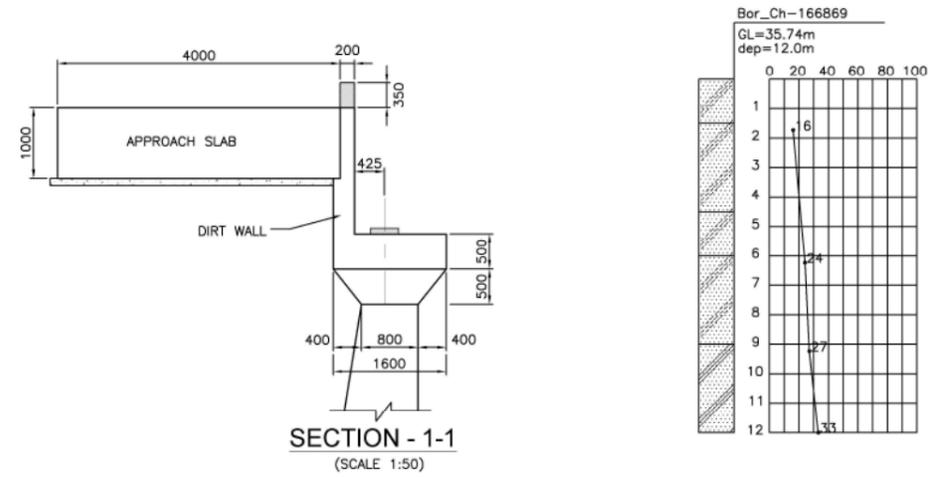
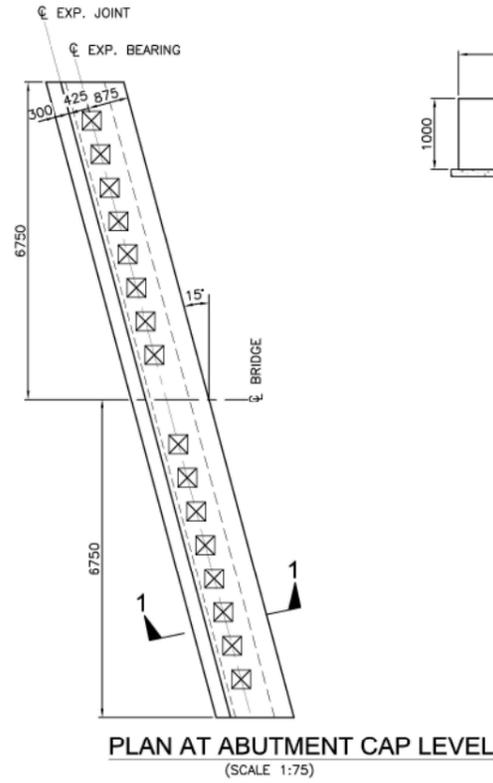
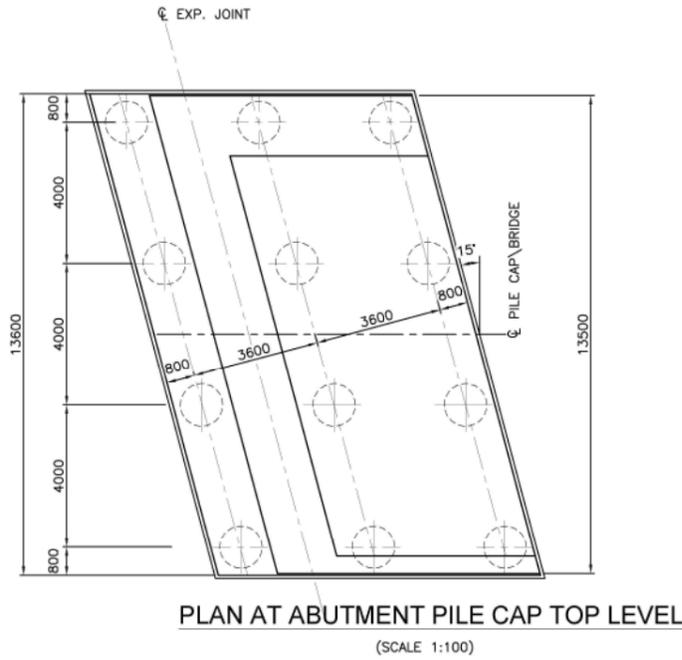
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REFERENCE DRAWINGS:	
DRAWING NO	SUBJECT
CEG/SACHIN-NADIADI/PLAN-PROFILE/S-99	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DDFC
ASSET MANAGER / DFCC	GGM(Engg-I)
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.	
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)	
CLIENT: - 	
TITLE: - SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 320 (CANAL), 1x12.20m. PRESTRESSED CONTIGUOUS BOX AT (REV CH. 166675.690) GENERAL ARRANGEMENT DRAWING (SHEET 2 OF 3)	
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 11:50am
PROJECT NO. 12008	REV. No.
DRG/TIO: CEG/SACHIN-NADIADI/GAD-BRIDGE/IS-5320	



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

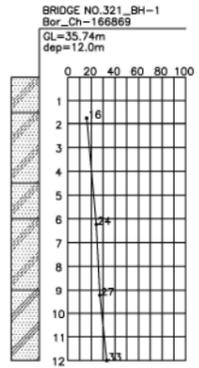
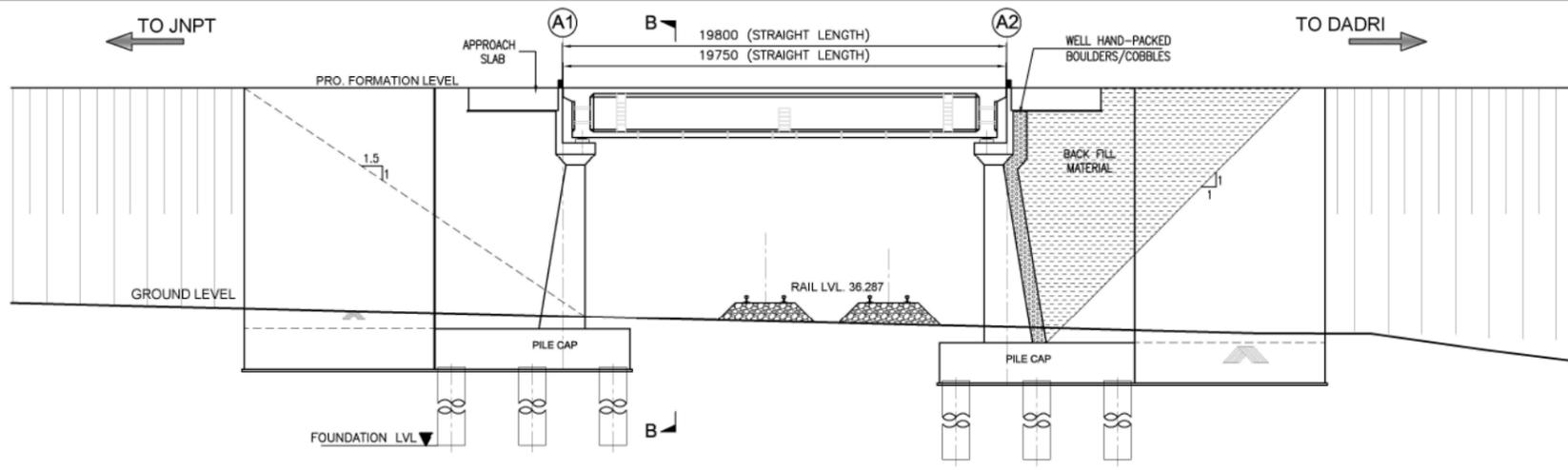
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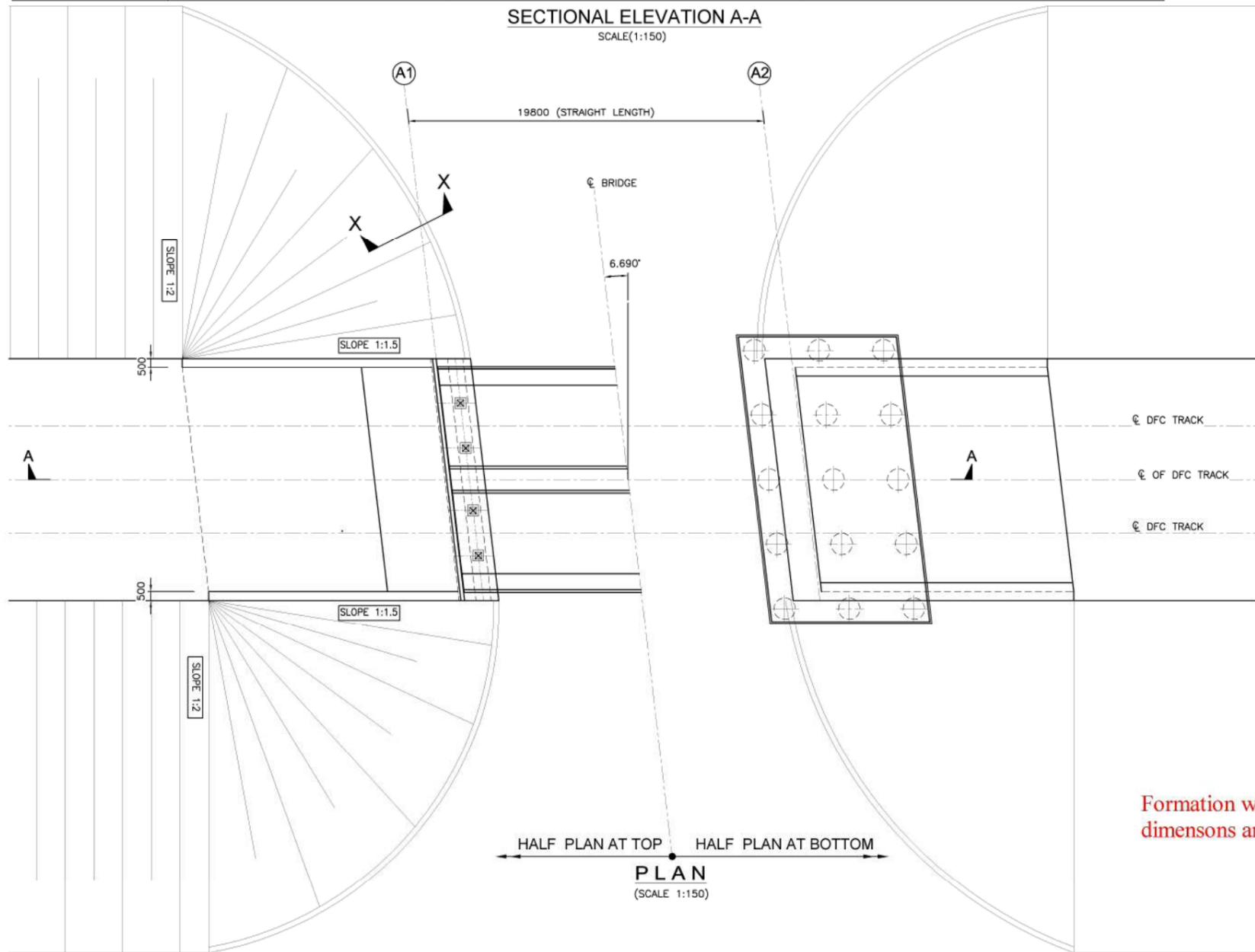
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APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
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MANAGER / DFCC	CPM/DFCC
ASSET. MANAGER / DFCC	GGM(Engg.)-I
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DRAWN BY : R.K.Y.	CHECKED BY : V.K.S.
SCALE : - AS SHOWN	DATE: 01/06/2015 - 11:50am
PROJECT NO. 12008	REV. No.
	APPROVED BY : G.U.R.
	CEG/SACHIN-NADIADI/GAD-BRIDGE /S-5020



GROUND LEVEL :	34.970	34.625	34.480	34.380	34.133	33.980
CHAINAGE :	166908.34	166922.428	166928.34	166932.328	166942.228	166948.34

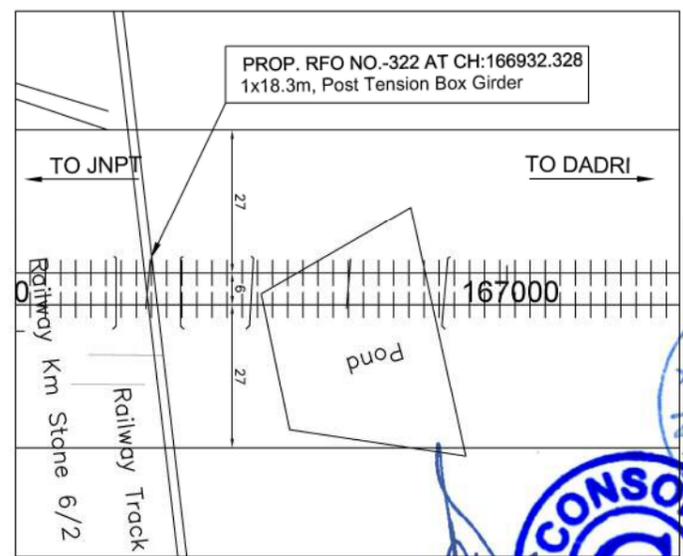
SECTIONAL ELEVATION A-A
SCALE(1:150)



PLAN
(SCALE 1:150)

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



KEY PLAN

- 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 IR 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 DFCC 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 PROVIDED IN RETURN WALL & ABUTMENT.
 - 5) JOINT 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	5
BRIDGE NO.	322
CHAINAGE	166932.328
SPAN CONFIGURATION	1X18.3m
OVERALL SPAN (mm)	19750
CLEAR SPAN (mm)	18300
TYPE OF STRUCTURE	POST TENSIONED BOX GIRDER
DEPTH OF SUPERSTRUCTURE (mm)	2280
TYPE OF CROSSING	I.R.LY TRACK
BRIDGE (STRAIGHT/CURVE/SKEW)	SKEW 6.85°
FORMATION LEVEL R.L. (METER)	44.916
EXISTING IR LEVEL (METER)	36.287
GROUND LEVEL (METER)	34.380
VERTICAL CLEARANCE MIN. (mm)	6145
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH - SUITABLE RESTRAINTS)	FIX - FREE

REFERENCE DRAWINGS:

DRAWING NO	SUBJECT
CEG/SACHIN-NADIAD/PLAN-PROFILE/S-5/1	L-SECTION

PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)

CLIENT: DFCC

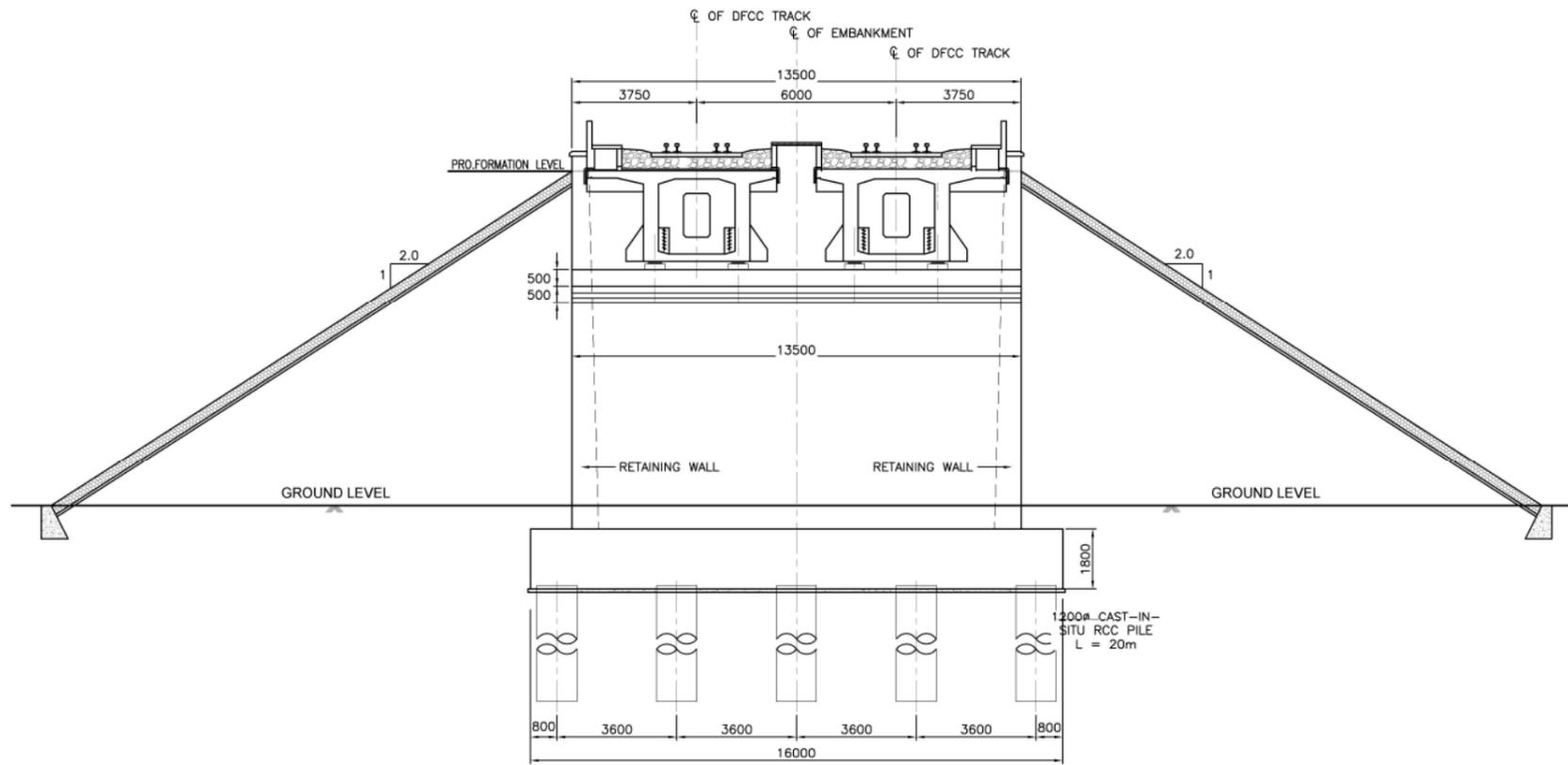
TITLE: SECTION 05 (VASAD-PALEJ) CONSTRUCTION OF BRIDGE NO. 322 (railway track crossing), 1X18.30. POST TENSIONED BOX GIRDER AT, REV CH166932.328. (railway track crossing), GENERAL ARRANGEMENT DRAWING (SHEET 1 OF 2)

DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: April 18, 2010	REV. No. R1
PROJECT NO. 12008	DRG NO. CEG/SACHIN-NADIAD/ GAD-BRIDGE/S-5322	

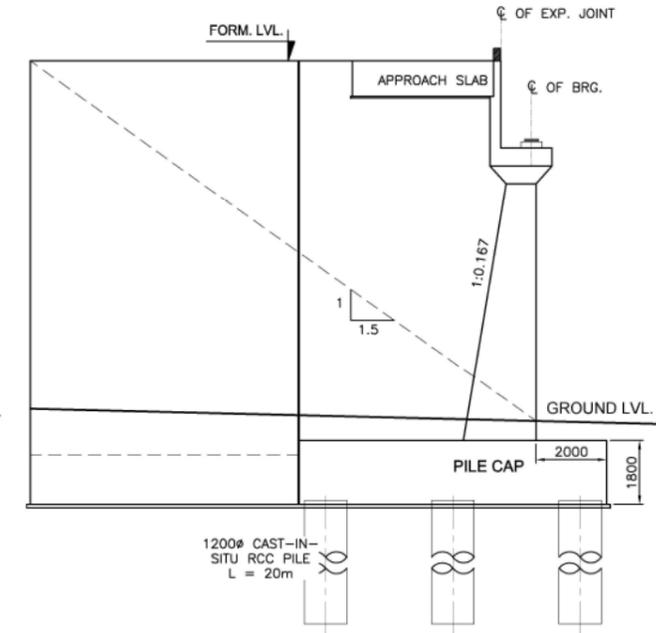
Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

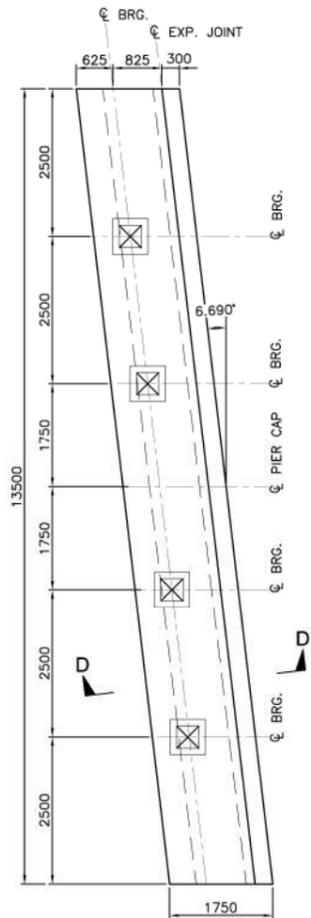
CONSULTING Engineers Group Ltd.
E-12, Moji Colony, Malviya Nagar Jaipur-17
Tel: +91-141-2520899, 2521899, 2520556
Fax: 2521895, E-Mail: ceg@cegindia.com



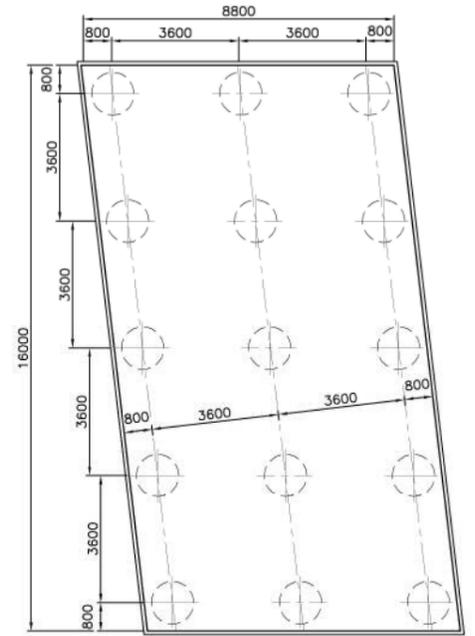
SECTION B-B
(SCALE 1:100)



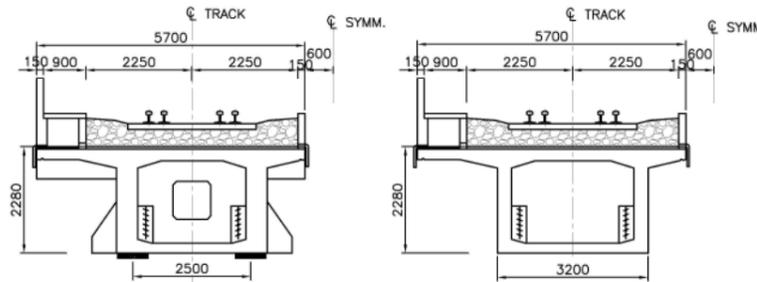
ABUTMENT DETAIL - A1
(SCALE 1:100)



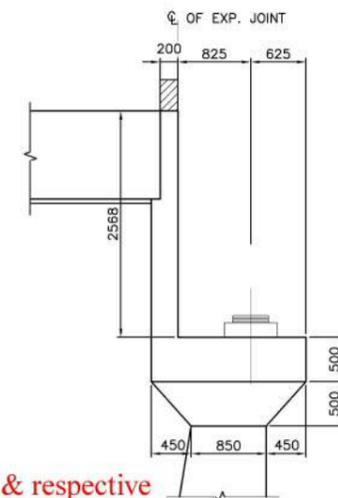
PLAN AT ABUTMENT CAP LVL.
(SCALE 1:60)



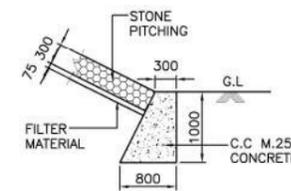
PLAN AT PILE FOUNDATION LVL.
(SCALE 1:100)



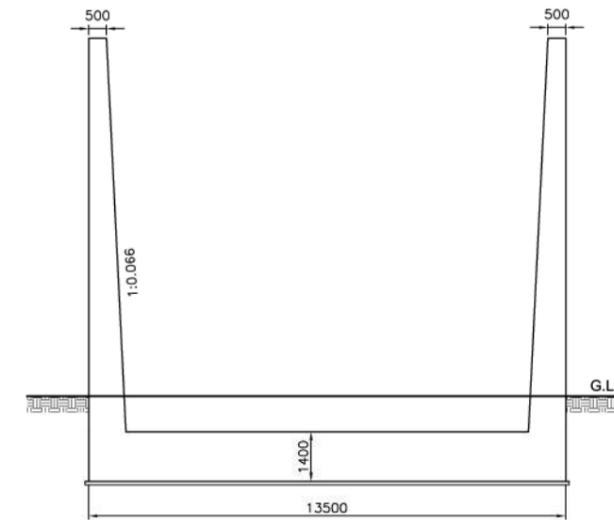
SECTION AT SUPPORT SECTION AT MID SPAN
18.3m (SPAN POST TENSION BOX GIRDER)
(SCALE 1:75)



SECTION D-D
(SCALE 1:40)



DETAIL X-X
(SCALE 1:50)



DETAIL OF RETAINING WALL
(SCALE 1:100)

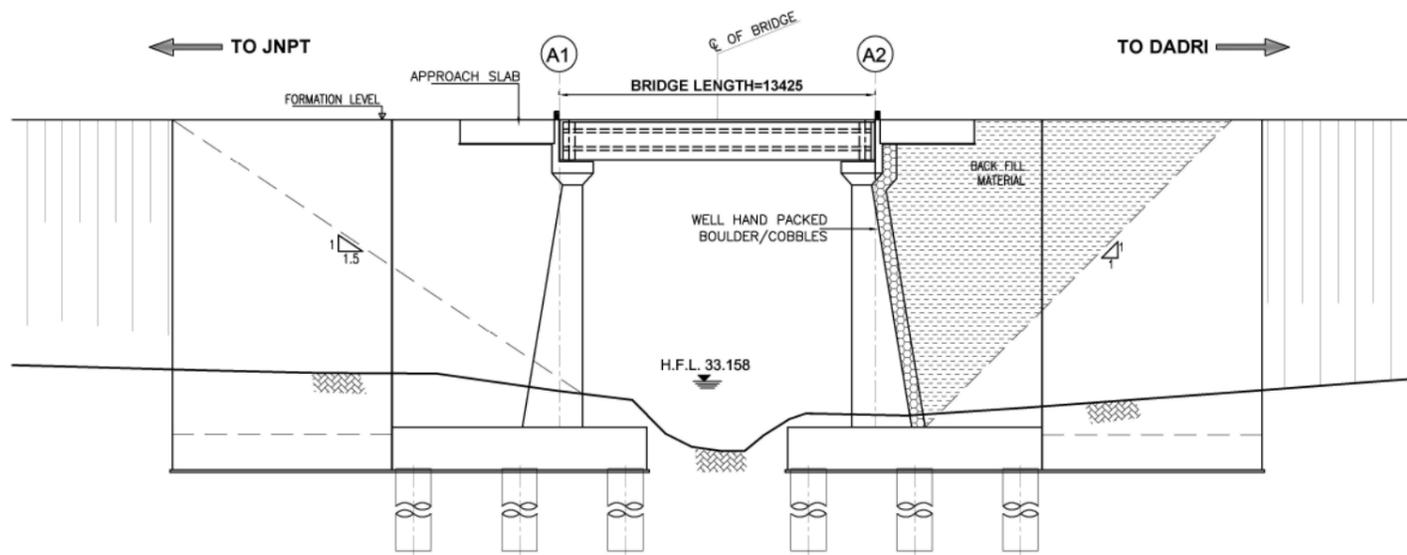


THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

CONSULTING Engineers Group Ltd.
E-12, Mooli Colony, Malviya Nagar Jaipur-17
Tel: +91-141-2520899, 2521899, 2520556
Fax: 2521899, E-Mail:ceg@cegindia.com

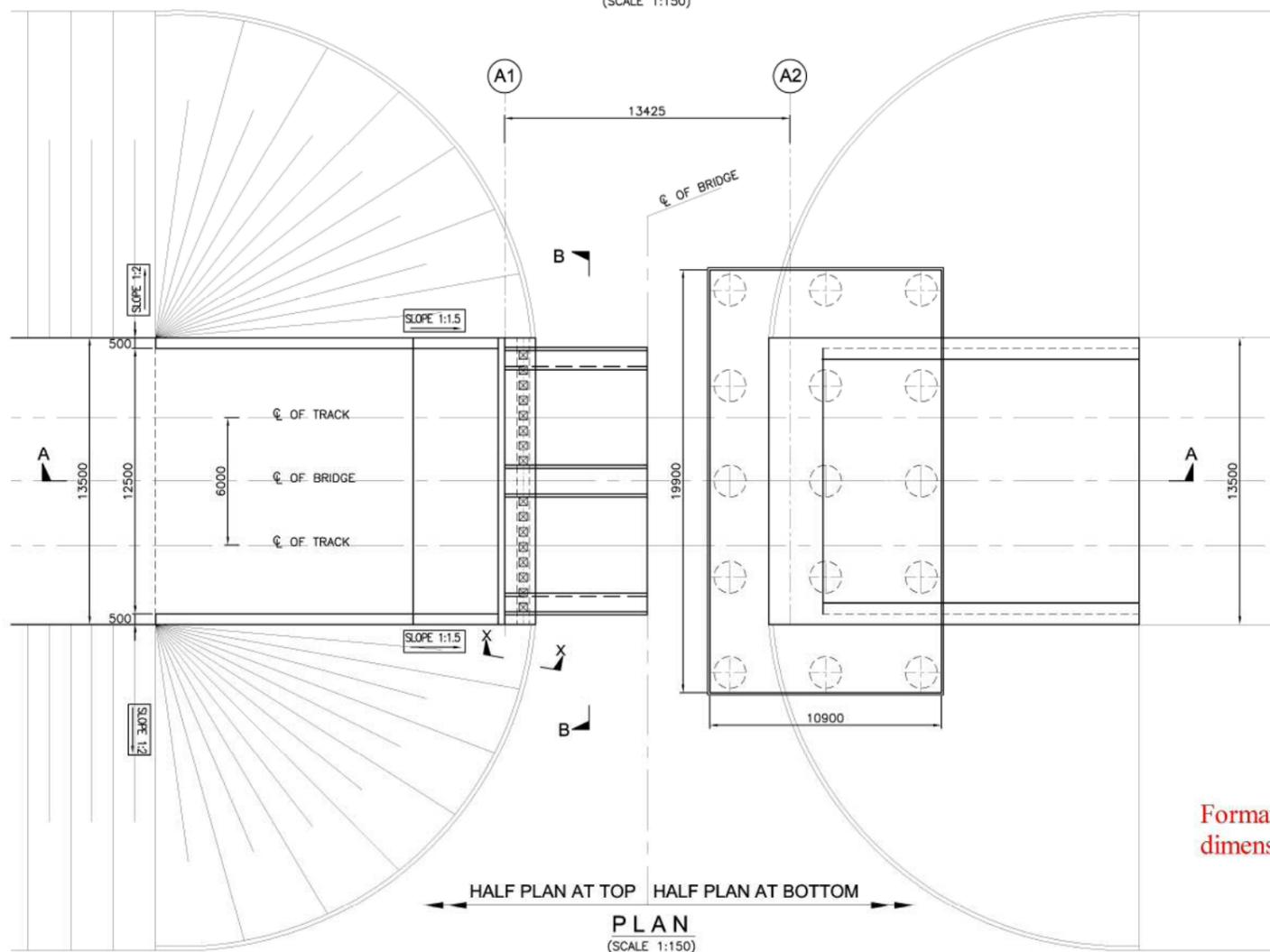
REFERENCE DRAWINGS.		
DRAWING NO	SUBJECT	
CEG/SACHIN-NADIAD/PLAN-PROFILE/S-5/1	L-SECTION	
APPROVED		
DESIGNATION INITIALS OF APPROVING OFFICIALS		
G.M. / DFCC		
MANAGER / DFCC	CPM/DFCC	
ASST. MANAGER / DFCC	GGM(Engg.-H)	
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.		
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)		
CLIENT:- 		
TITLE: - SECTION 05 (VASAD-PALEJ) CONSTRUCTION OF BRIDGE NO 322 (railway track crossing), 1X18.30. POST TENSIONED BOX GIRDER AT, REV CH186932.328. (railway track crossing), GENERAL ARRANGEMENT DRAWING (SHEET 2 OF 2)		
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: April 18, 2010	REV. No. R1
PROJECT NO. 12008	DRG NO. CEG/SACHIN-NADIAD/GAD-BRIDGE/S-5/22	

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

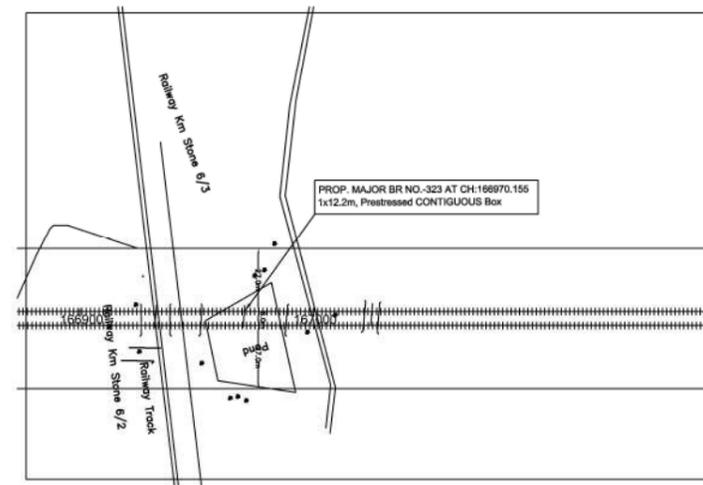
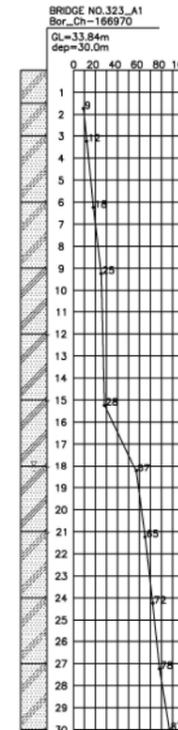
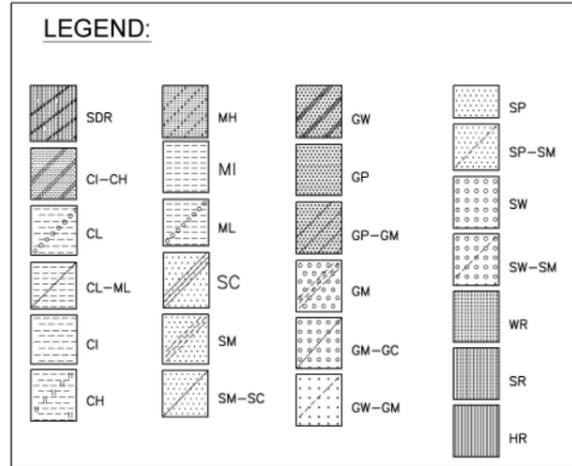


FORMATION LEVEL :	44.624	44.608	44.557
GROUND LEVEL :	32.870	32.533	32.617
CHAINAGE :	166963.443	166970.155	166976.868

LONGITUDINAL SECTION A-A
(SCALE 1:150)



PLAN
(SCALE 1:150)



KEY-PLAN

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1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
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TABLE-1	
DETAILS	PROPOSED DFC
PACKAGE	3
SECTOR	5
BRIDGE NO.	323
CHAINAGE	166970.155
SPAN CONFIGURATION (C/C) OF PIER	1X12.2m
OVERALL SPAN (mm)	13375
EFFECTIVE SPAN (mm)	12575
CLEAR SPAN (mm)	12200
TYPE OF STRUCTURE	PRESTRESSED CONTIGUOUS BOX
DEPTH OF SUPERSTRUCTURE (mm)	1780
TYPE OF CROSSING	POND
BRIDGE (STRAIGHT/CURVE/SKEW)	STRAIGHT
FORMATION LEVEL R.L. (METER)	44.940
BED LEVEL R.L. (METER)	32.433
H.F.L. R.L. (METER)	33.158
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	-
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH - SUITABLE RESTRAINTS)	FIX - FREE

REFERENCE DRAWINGS:	
DRAWING NO	SUBJECT
CEG/SACHIN-NADIADI/PLAN-PROFILE/S-59	L-SECTION

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET MANAGER / DFCC	GGM(Engg.-H)

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.

PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)



TITLE:- SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 323 (POND), 1X12.20m. PRESTRESSED CONTIGUOUS BOX AT (REV.CH. 166970.155) GENERAL ARRANGEMENT DRAWING (SHEET -1 OF 2)

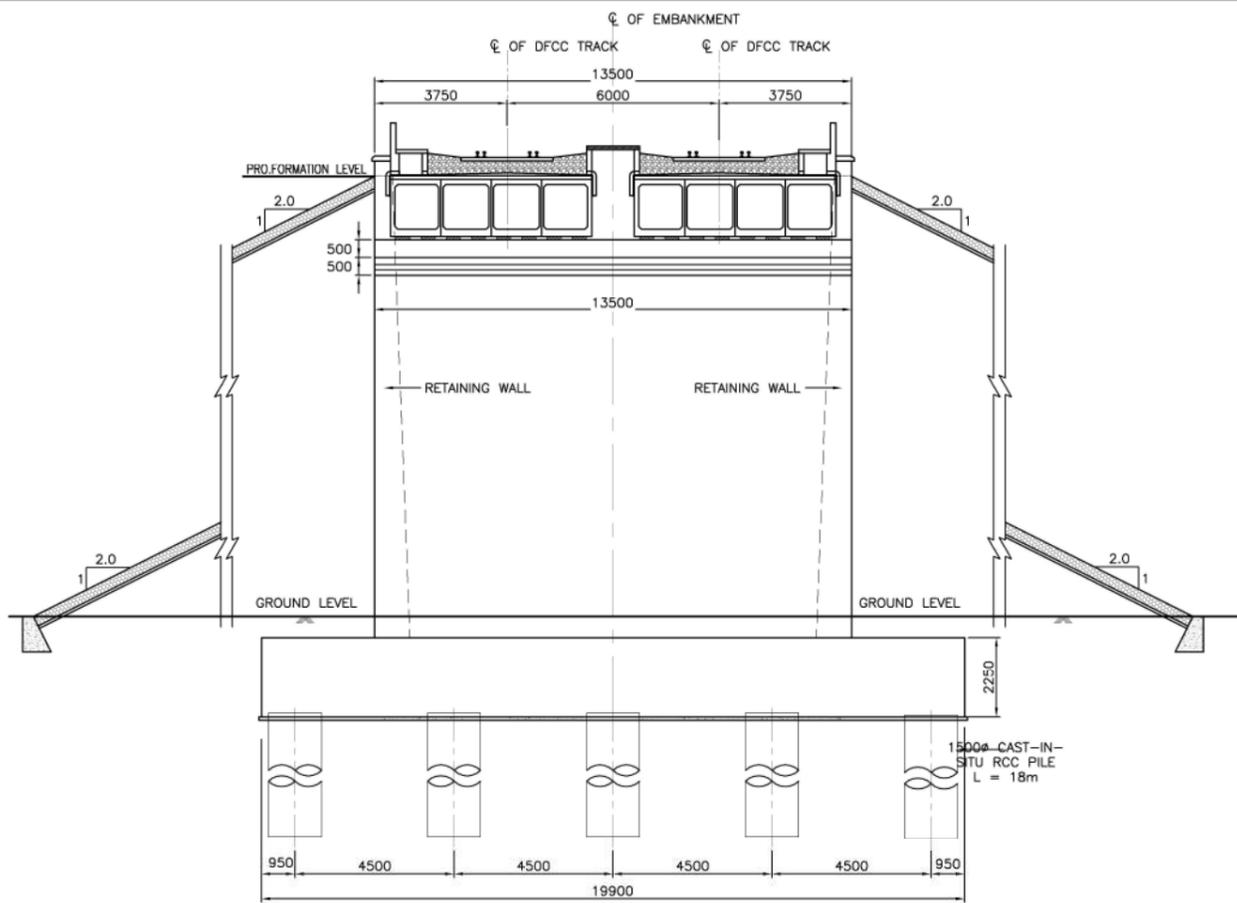
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 11:53am	REV. No.
PROJECT NO: 12008	DRG NO: CEG/SACHIN-NADIADI/GAD-BRIDGE/S-5323	

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

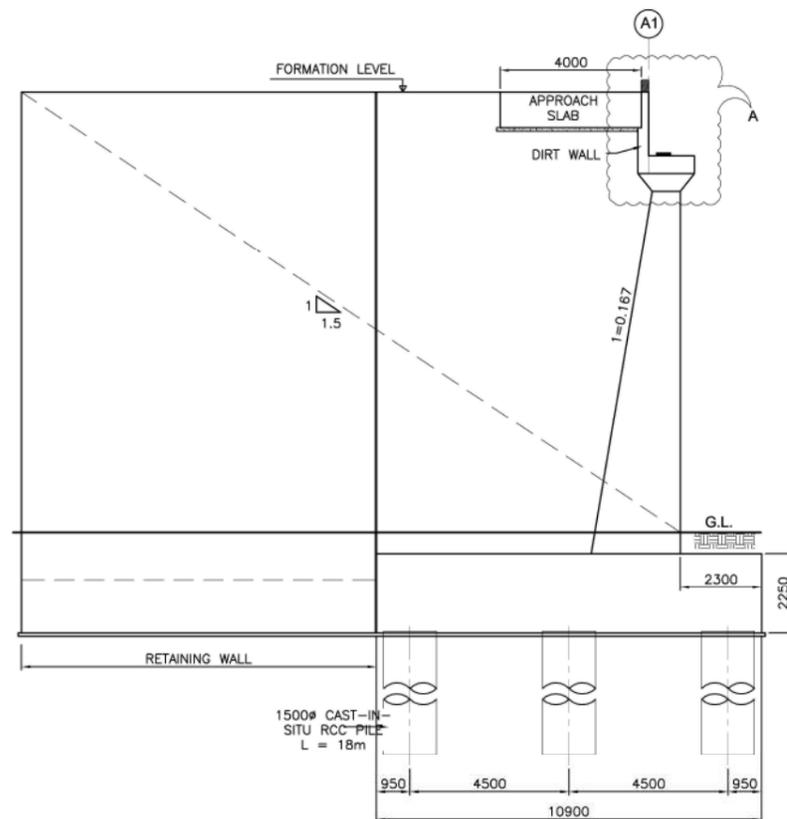
THIS DRAWING WAS ORIGINALLY PREPARED BY: C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY: NIPPON KOEI CONSORTIUM.

CONSULTING Engineers Group Ltd. E-12, Mooli Colony, Malviya Nagar, Jaipur-17. Tel: +91-141-2520899, 2521899, 2520556 Fax: 2521895, E-Mail: ceg@cegindia.com

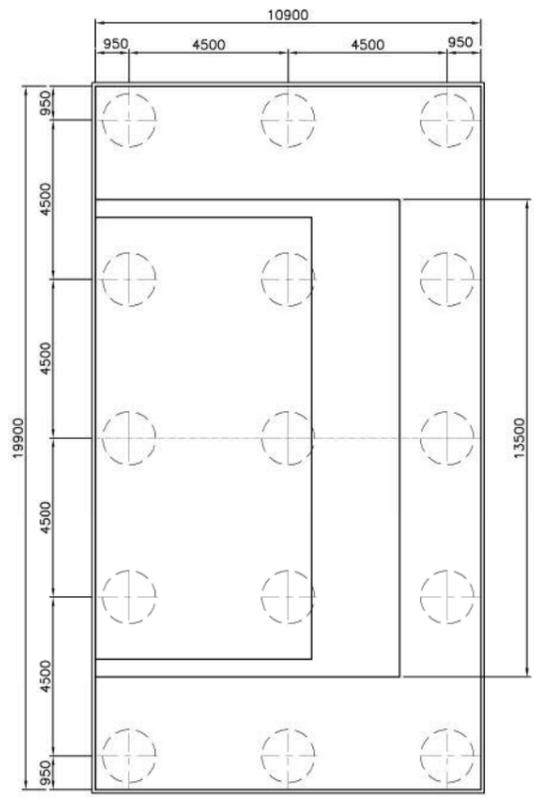




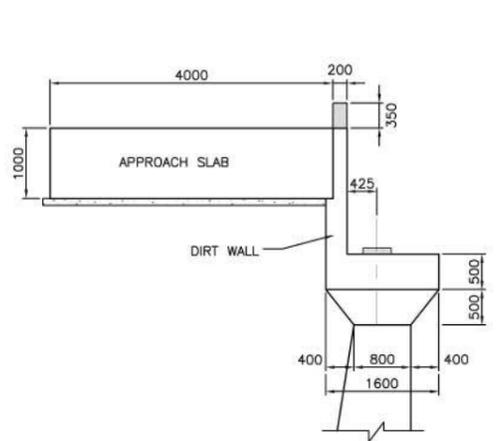
SECTION B-B
(SCALE 1:100)



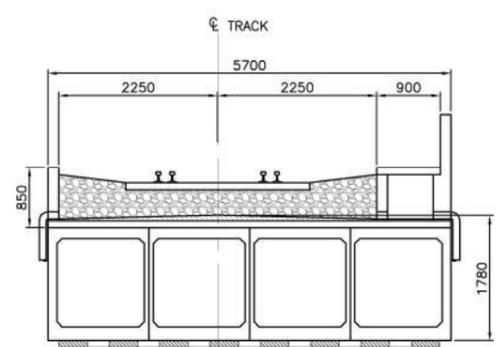
DETAIL OF ABUTMENT - A1
(SCALE 1:100)



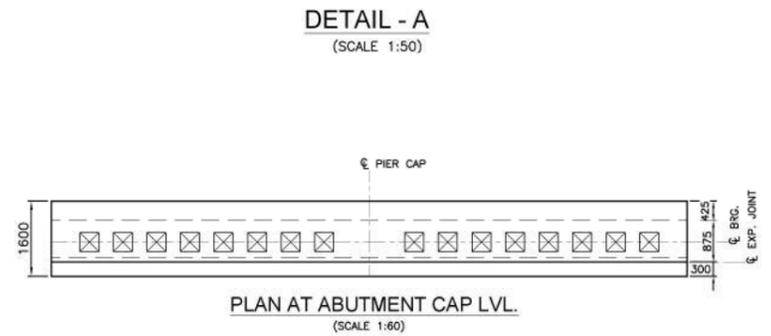
PLAN AT ABUTMENT FOUNDATION LEVEL
(SCALE 1:100)



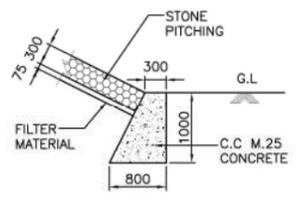
DETAIL - A
(SCALE 1:50)



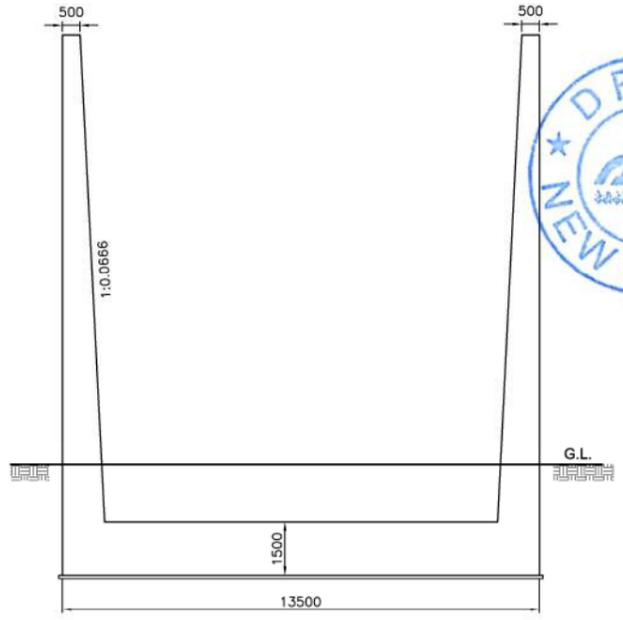
12.20m (TYP. CROSS SECTION FOR
PRESTRESSED CONTIGUOUS BOX)
(SCALE 1:50)



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



SECTION X-X
(SCALE 1:50)



DETAIL OF RETAINING WALL
(SCALE 1:100)



REFERENCE DRAWINGS:	
DRAWING NO	SUBJECT
CEGISACHIN-NADIADI/PLAN-PROFILE/S-99	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET MANAGER / DFCC	GGM(Engg.)
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.	
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)	



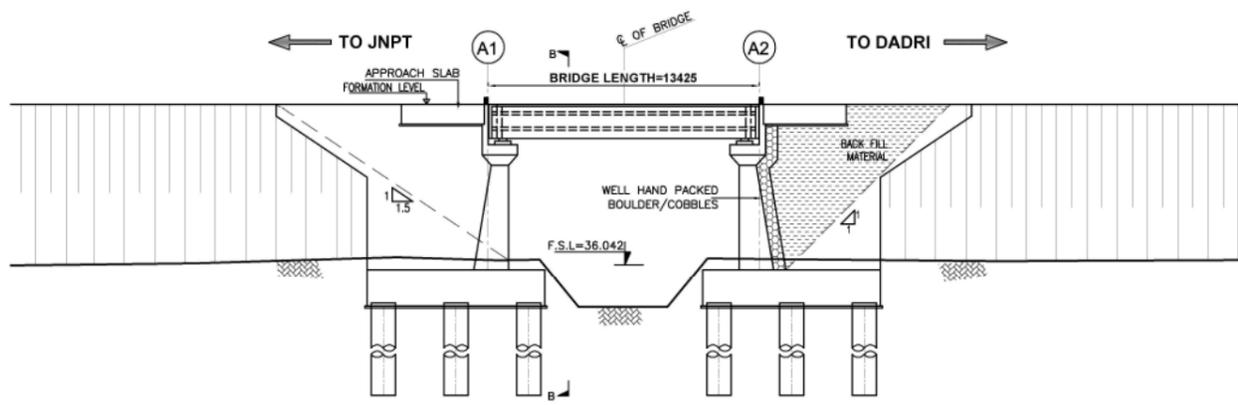
TITLE:- SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 323 (POND), 1X12.20m. PRESTRESSED CONTIGUOUS BOX AT (REV.CH. 16697D.155) GENERAL ARRANGEMENT DRAWING (SHEET -2 OF 2)

THIS DRAWING WAS ORIGINALLY PREPARED BY: C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY: NIPPON KOEI CONSORTIUM.

CONSULTING Engineers Group Ltd. E-12, Mohi Colony, Malviya Agar Jaipur-17. Tel: +91-141-2520899, 2521899, 2520556 Fax: 2521895, E-Mail:ceg@ceginia.com

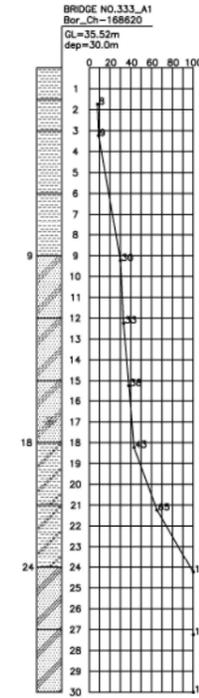
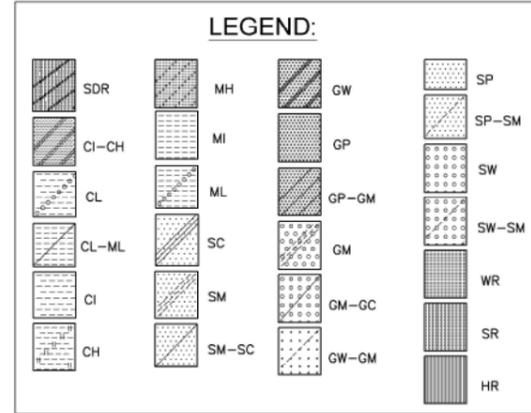
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 11:53am	REV. No.
PROJECT NO: 12008	DRG NO: CEGISACHIN-NADIADI/GAD-BRIDGE/IS-5323	

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



FORMATION LEVEL :	43.195	43.197	43.200	43.202	43.203
GROUND LEVEL :	35.660	35.666	35.604	35.560	35.560
CHAINAGE :	168608.34	168612.866	168619.580	168626.293	168628.34

LONGITUDINAL SECTION A-A
(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 BEFORE EXECUTION.
3. ALL DIMENSIONS AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
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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 DFCC 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 PROVIDED IN RETURN WALL & ABUTMENT.
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- 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	5
NO. OF TRACKS	4
BRIDGE NO.	333
CHAINAGE	168619.580
SPAN CONFIGURATION	1X12.2m
OVERALL SPAN (mm)	13375
EFFECTIVE SPAN (mm)	12575
CLEAR SPAN (mm)	12200
TYPE OF STRUCTURE	PRESTRESSED CONTIGUOUS BOX
DEPTH OF SUPERSTRUCTURE (mm)	1780
TYPE OF CROSSING	CANAL
BRIDGE (STRAIGHT/CURVE/SKEW)	SKEW 20°
FORMATION LEVEL R.L. (METER)	45.958
BED LEVEL R.L. (METER)	33.200
F.S.L. R.L. (METER)	36.042
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	-
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH - SUITABLE RESTRAINTS)	FIX & FREE

REFERENCE DRAWINGS:

DRAWING NO.	SUBJECT
CEG/SACHIN-NADIAD/PLAN-PROFILE/S-59	L-SECTION

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET. MANAGER / DFCC	GGM/Engg-I

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.

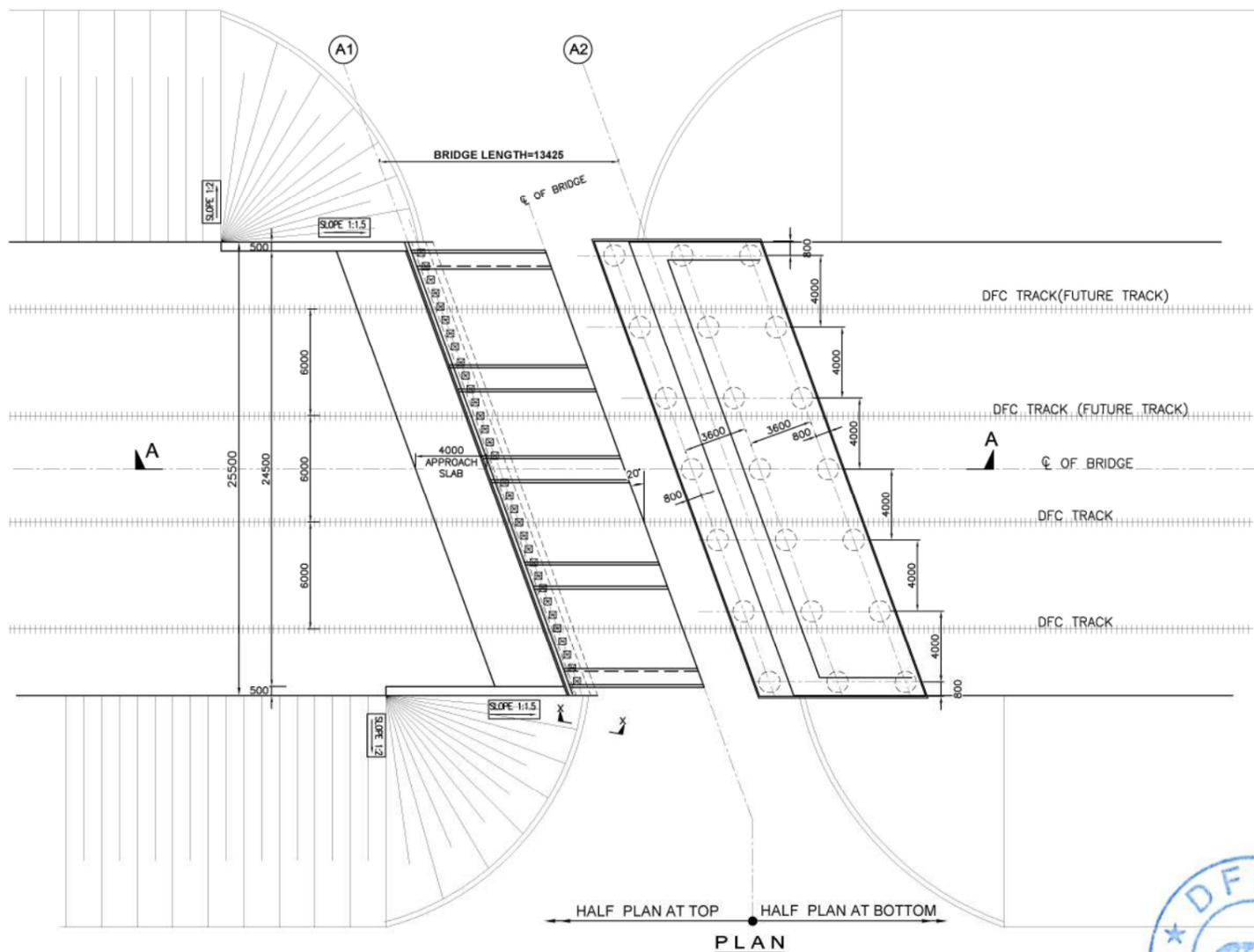
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)

CLIENT: -

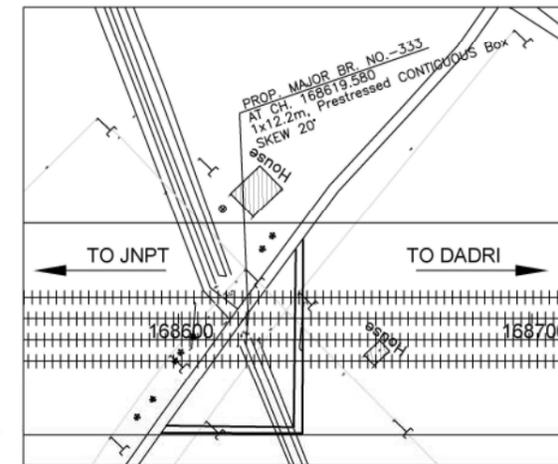


TITLE:- SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 333, 1X12.20m. PRESTRESSED CONTIGUOUS BOX AT (REV CH. 168619.580) GENERAL ARRANGEMENT DRAWING (SHEET: 1 OF 2)

DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 11:54am	REV. No.
PROJECT NO: 12008	DRG NO: CEG/SACHIN-NADIAD/GAD BRIDGE /S-5933	



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



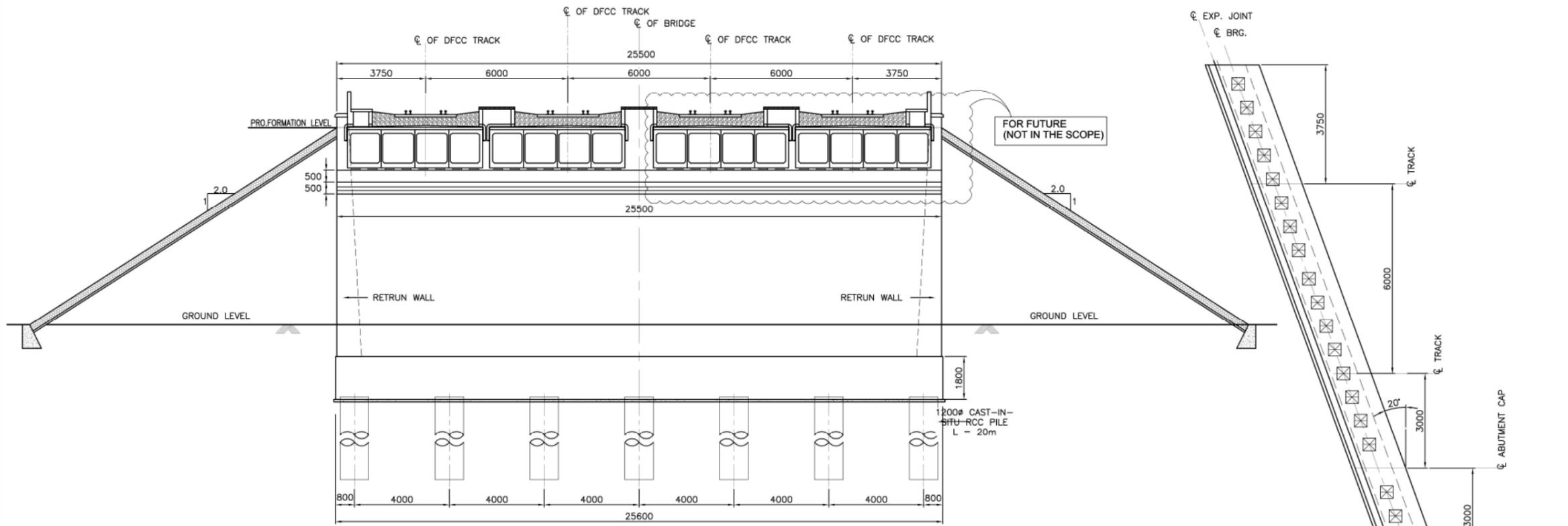
KEY PLAN

NOTES:- SUBSTRUCTURE SHALL BE CONSTRUCTED FOR 4 TRACKS, BUT SUPERSTRUCTURE FOR 3 TRACKS ONLY, AND ONE TRACK SUPERSTRUCTURE FOR FUTURE PURPOSE ONLY.

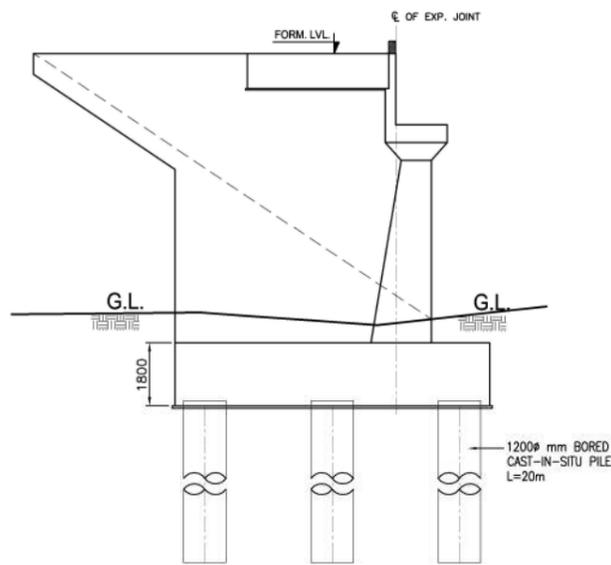


THIS DRAWING WAS ORIGINALLY PREPARED BY: C.E.G. (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOGI CONSORTIUM.

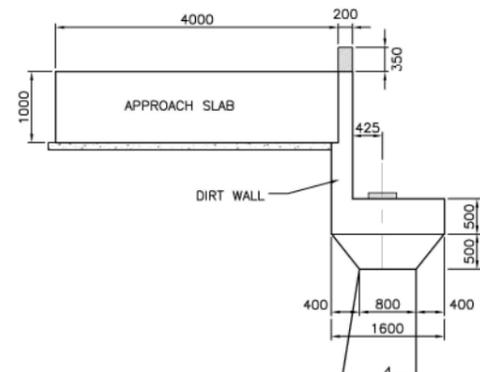
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CONSULTING Engineers Group Ltd.
E-12, Moji Colony, Malviya Nagar Jaipur-17
Tel: +91-141-2520898, 2521899, 2520556
Fax: 2521899, E-Mail:ceg@ceginia.com



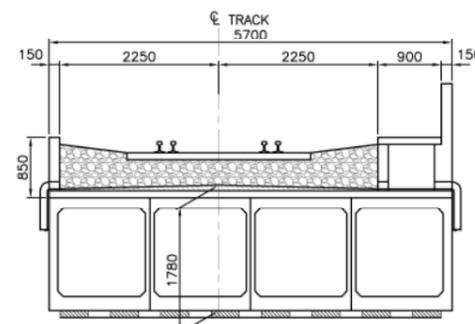
SECTION 'B-B'
(SCALE 1:100)



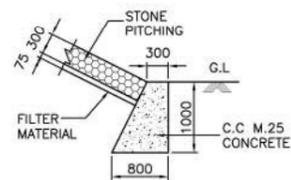
ABUTMENT DETAIL (A1)
SCALE 1:100



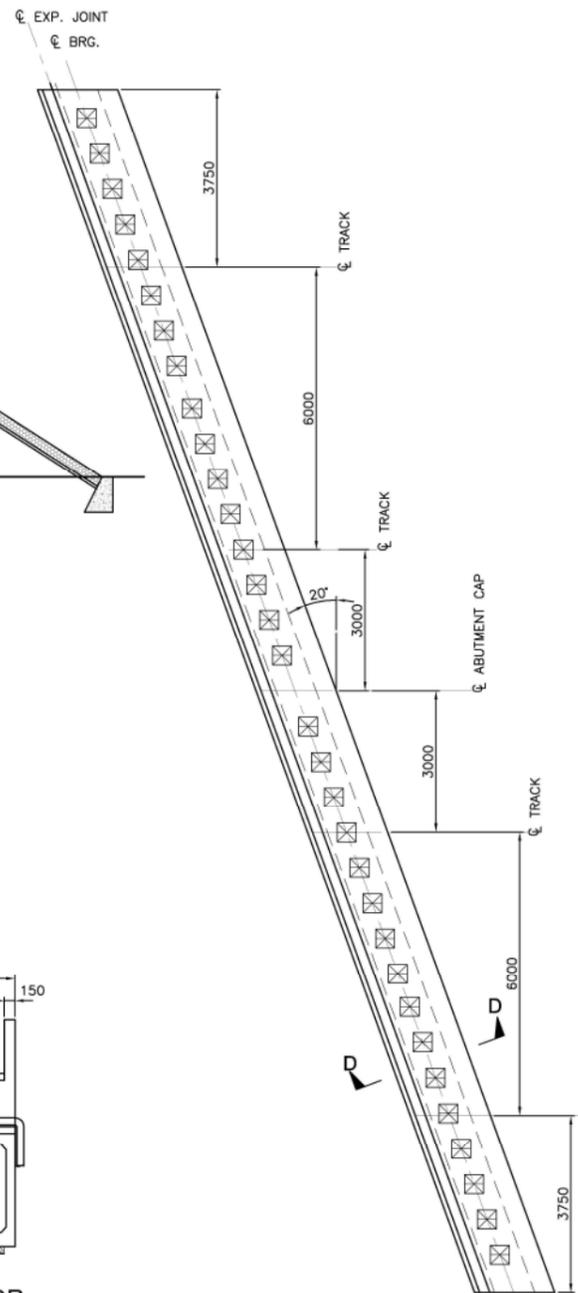
SECTION D-D
(SCALE 1:50)



12.20m (TYP. CROSS SECTION FOR
PRESTRESSED CONTIGUOUS BOX)
(SCALE 1:50)



SECTION X-X
(SCALE 1:50)



PLAN AT ABUTMENT CAP LVL.
(SCALE 1:75)

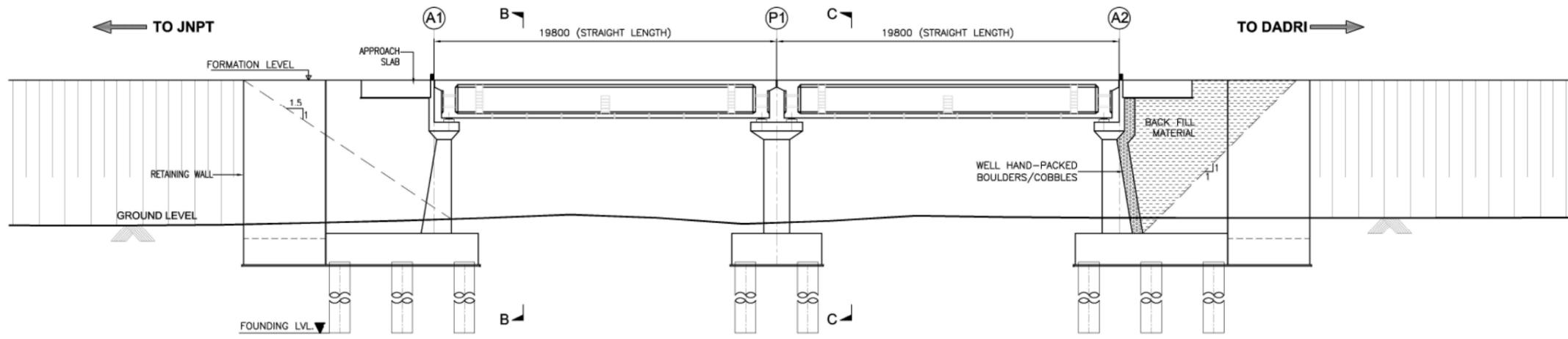


Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

REFERENCE DRAWINGS:	
DRAWING NO CEG/SACHIN-NADIAD/PLAN-PROFILE/S-59	SUBJECT L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET. MANAGER / DFCC	GGM(Engg.)
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.	
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)	
CLIENT: - 	
TITLE:- SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 333, 1X12.20m. PRESTRESSED CONTIGUOUS BOX AT (REV CH. 168619.580) GENERAL ARRANGEMENT DRAWING (SHEET: 2 OF 2)	
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.
SCALE: AS SHOWN	DATE: 01/06/2015 - 11:55am
PROJECT NO. 12008	REV. No.
CEG/SACHIN-NADIAD/ GAD BRIDGE /S-5033	

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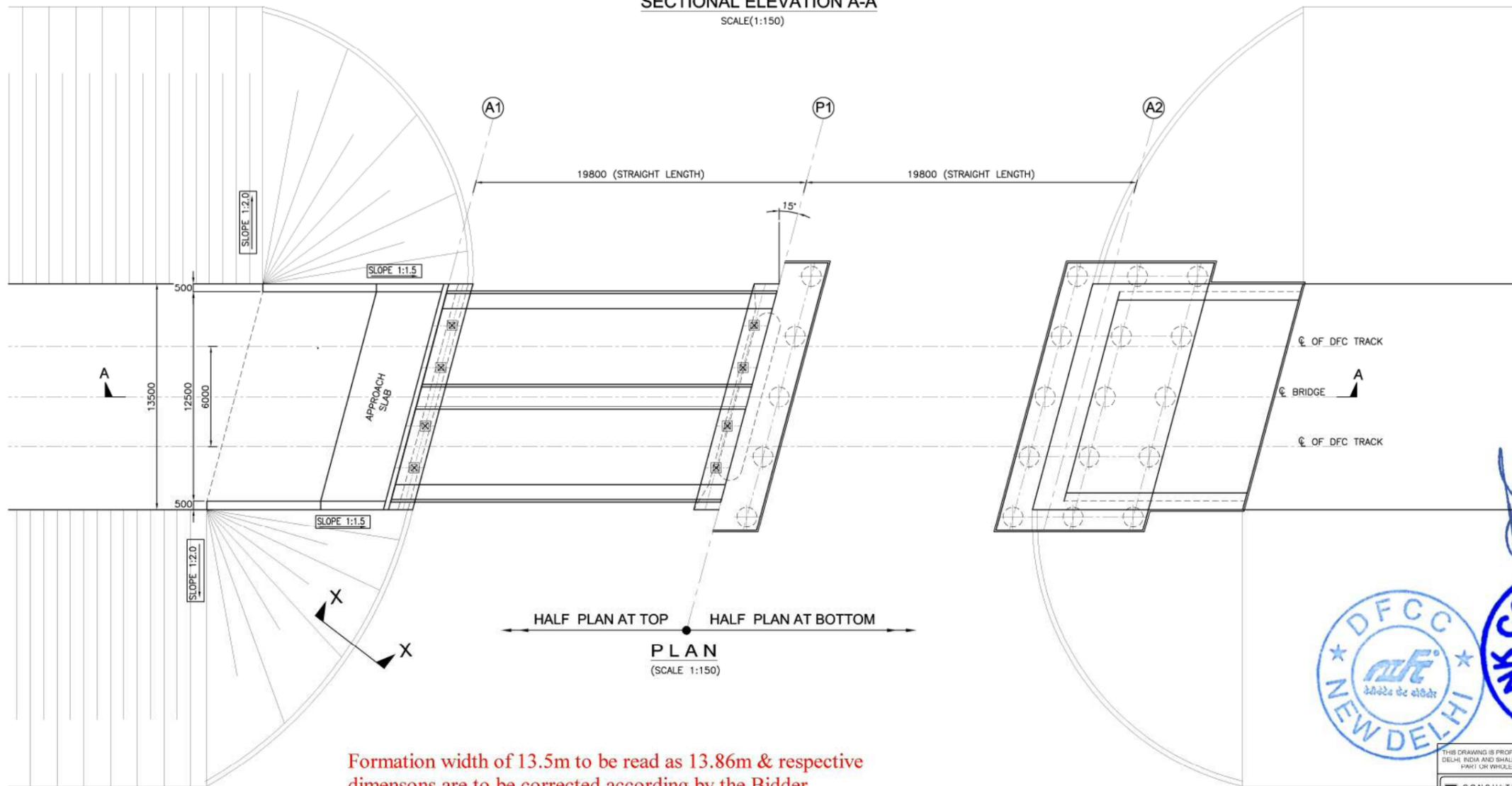
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CONSULTING Engineers Group Ltd.
E-12, Moji Colony, Malviya Agar Jaipur-17
Tel: +91-141- 2520898, 2521899, 2520556
Fax: 2521899, E-Mail:ceg@ceginia.com



FORMATION LVL.(m)	43.635	43.635	43.635
GROUND LVL.(m)	35.461	34.600	35.743
CHAINAGE (m)	169659.560	169679.363	169699.163

SECTIONAL ELEVATION 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 IR 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 DFCC LOADING (32.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO. (WITH LATEST CORRECTION 6LIP).
 - 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) SHE 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	5
BRIDGE NO.	338
CHAINAGE	169679.363
SPAN CONFIGURATION (C/C) OF PIER	2X18.3m
OVERALL SPAN (mm)	19750
EFFECTIVE SPAN (mm)	18190
CLEAR SPAN (mm)	18300
TYPE OF STRUCTURE	POST TENSIONED BOX GIRDER
DEPTH OF SUPERSTRUCTURE (mm)	2280
TYPE OF CROSSING	S.H.
BRIDGE (STRAIGHT/CURVE/SKEW)	SKEW 15°
FORMATION LEVEL R.L. (METER)	46.612
BED LEVEL R.L. (METER)	34.600
VERTICAL CLEARANCE MIN. (mm)	5000
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH - SUITABLE RESTRAINTS)	FIX - FREE

REFERENCE DRAWINGS:

DRAWING NO.	SUBJECT.
CEG/SACHIN-NADIADI/PLAN-PROFILES-52	L-SECTION

APPROVED

DESIGNATION	INITIALS OF APPROVING OFFICIALS

CPM / DFCC	
DY. PM (ENGG.) -BRC	
APM (ENGG.) -BRC	

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.

PROJECT: - WESTERN DEDICATED FREIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)

CLIENT: -

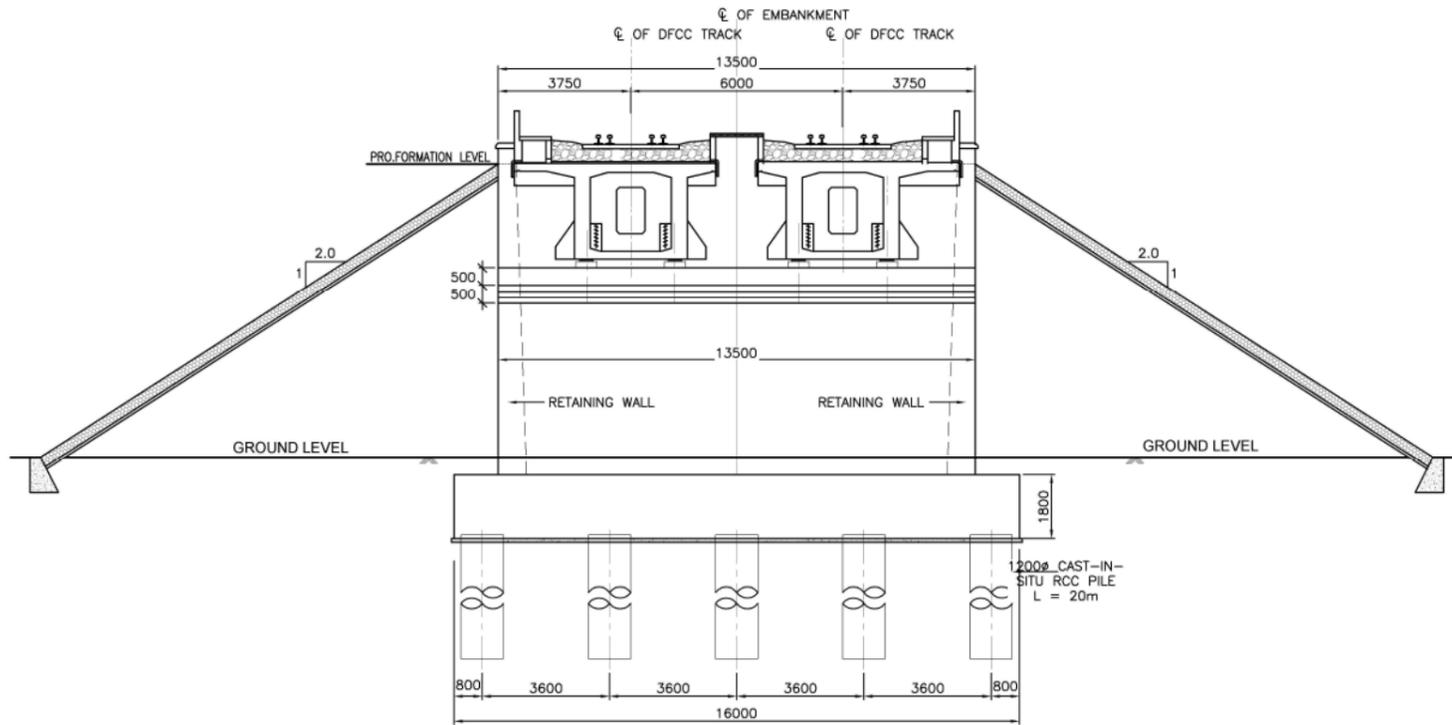
TITLE:- SECTION-5 (SACHIN - PALEJ) (ON DETOUR) CONSTRUCTION OF BRIDGE NO. 338, 2X18.30m, POST TENSIONED BOX GIRDER AT KM. (REV CH. 169679.363), GENERAL ARRANGEMENT DRAWING (SHEET : 1 OF 3)

DRAWN BY: G.N.S	CHECKED BY: VK.S	REV. No.
SCALE: - AS SHOWN		
PROJECT NO. 12008	DRG. NO. - CEG/SACHIN-NADIADI/GAD-BRIDGE-IS-5038	

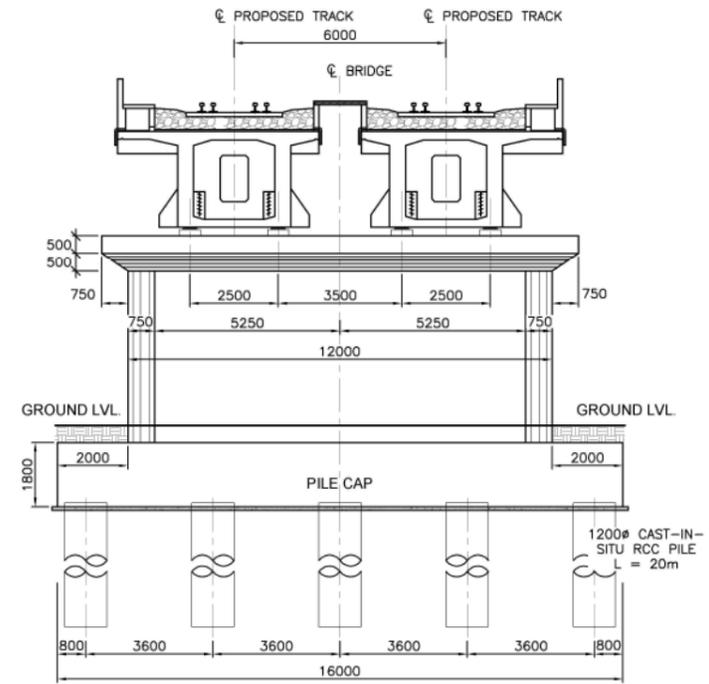
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CONSULTING Engineers Group Ltd.
E-12, Miji Colony, Malviya Nagar Jaipur-17
Tel: +91-141- 2520899, 2521899, 2520556
Fax: 2521899, E-Mail: ceg@ceginia.com

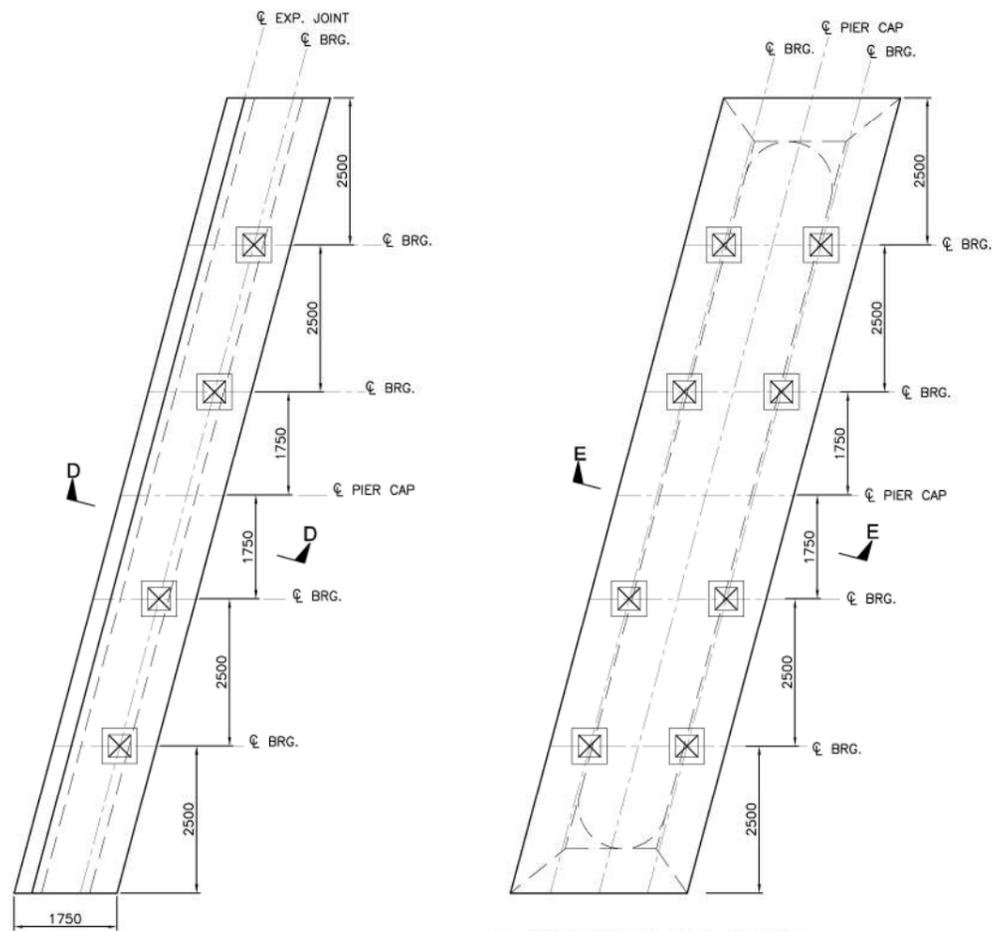




SECTION B-B
(SCALE 1:100)

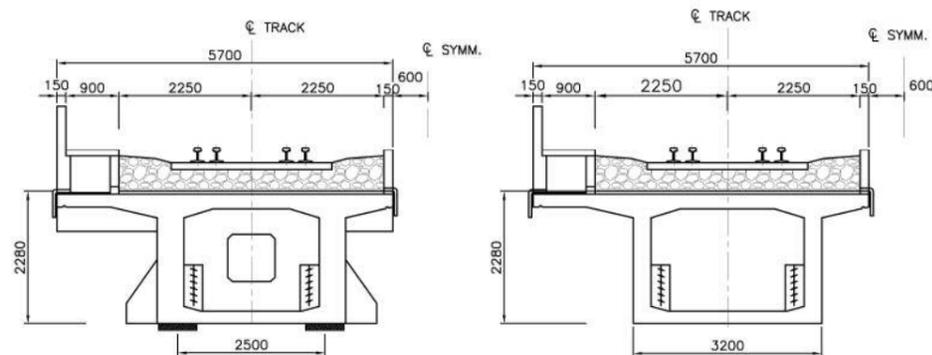


SECTION C-C
(SCALE 1:100)

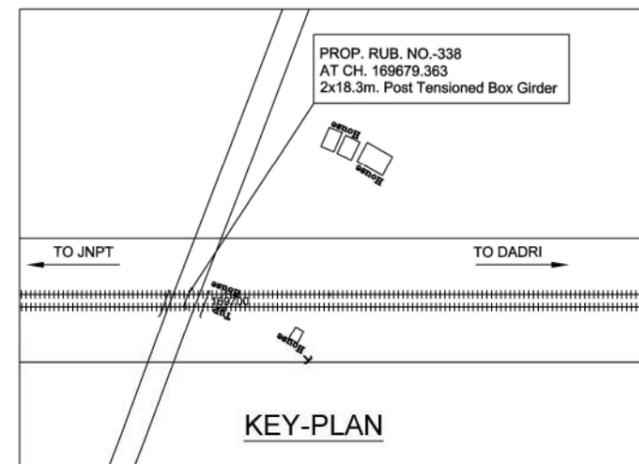


PLAN AT ABUTMENT CAP LVL.
(SCALE 1:60)

PLAN AT PIER CAP LEVEL
(SCALE 1:60)



SECTION AT SUPPORT
SECTION AT MID SPAN
18.3m (SPAN POST TENSION BOX GIRDER)
(SCALE 1:60)



KEY-PLAN



REFERENCE DRAWINGS:	
DRAWING NO.	SUBJECT
CEG/SACHIN-NADIADI/ PLAN-PROFILE/S-52	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM / DFCC	
DY. PM (ENGG.)-BRC	
APM (ENGG.)-BRC	
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.	
PROJECT: - WESTERN DEDICATED FREIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)	

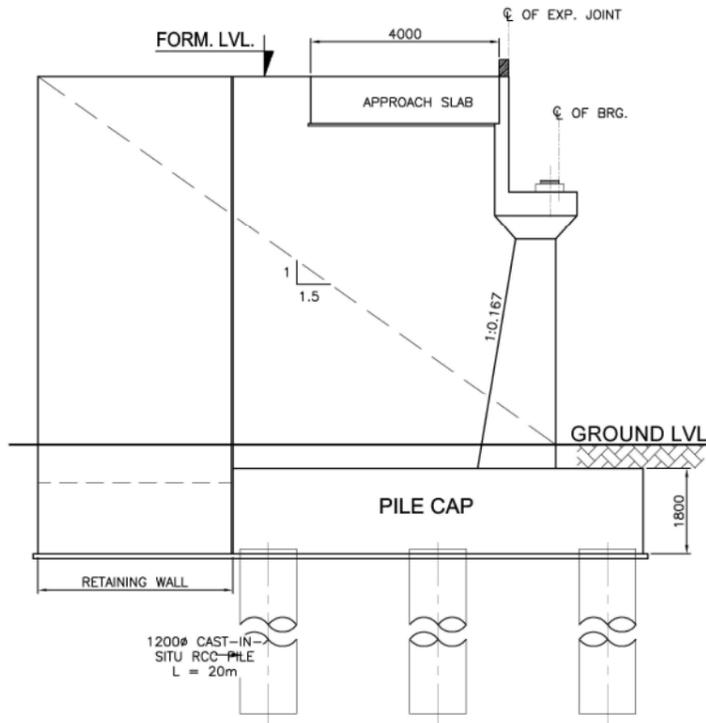


TITLE:- SECTION-5 (SACHIN - PALEJ) (ON DETOUR) CONSTRUCTION OF BRIDGE NO. 338, 2x18.30m. POST TENSIONED BOX GIRDER AT KM., (REV CH. 169679.363), GENERAL ARRANGEMENT DRAWING (SHEET : 2 OF 3)		
DRAWN BY : G.N.S	CHECKED BY : V.K.S	REV. No.
SCALE :- AS SHOWN		
PROJECT NO. 12008	DRG. NO. :- CEG/SACHIN-NADIADI/ GAD-BRIDGE/S-5038	

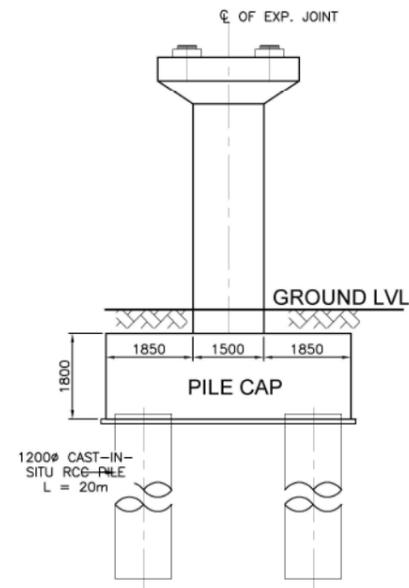
Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

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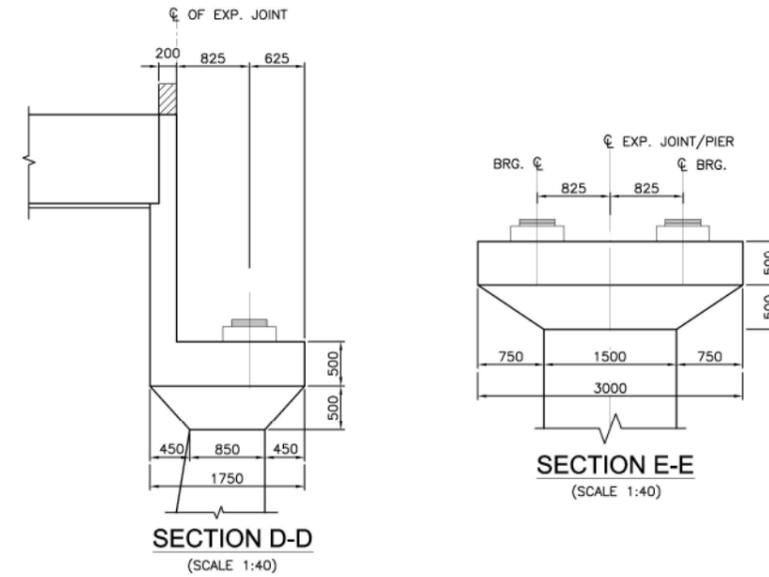
CONSULTING Engineers Group Ltd. E-12, Moji Colony, Melviya Nagar Jaipur-17 Tel: +91-141- 2520899, 2521899, 2520556 Fax: 2521899, E-Mail:ceg@ceginfga.com



ABUTMENT DETAIL - A1
(SCALE 1:75)

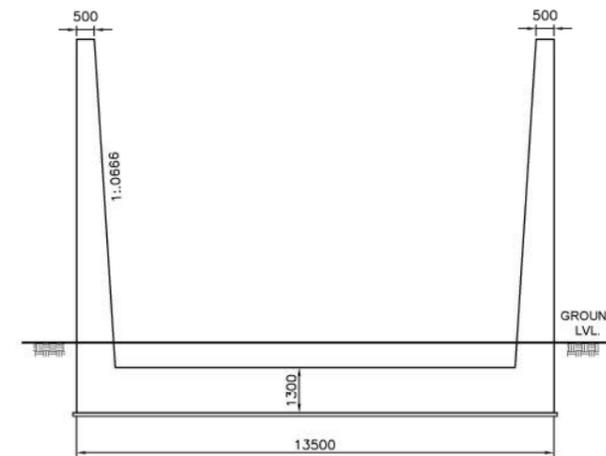


TYPICAL DETAIL OF PIER
(SCALE 1:75)

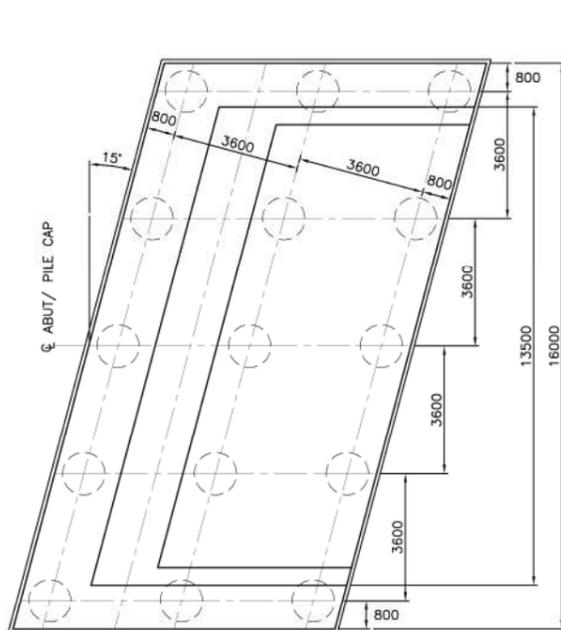


SECTION D-D
(SCALE 1:40)

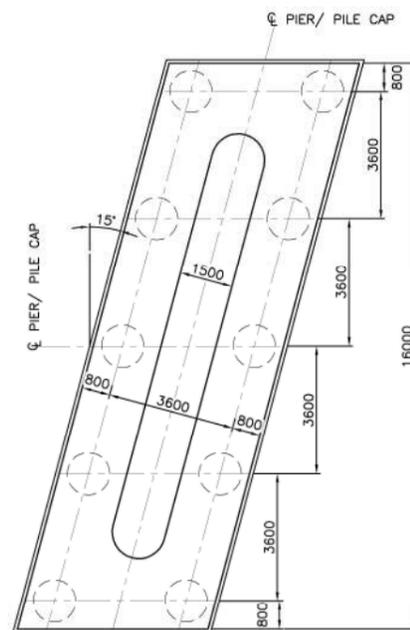
SECTION E-E
(SCALE 1:40)



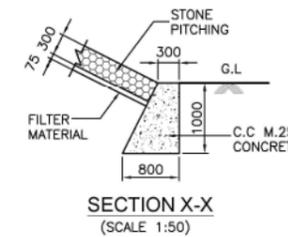
DETAIL OF RETAINING WALL
(SCALE 1:100)



PLAN AT PILE CAP LEVEL FOR ABUTMENT
(SCALE 1:100)



PLAN AT PIER FOUNDATION
(SCALE 1:100)



SECTION X-X
(SCALE 1:50)



REFERENCE DRAWINGS:	
DRAWING NO.	SUBJECT
CEG/SACHIN-NADIADI/PLAN-PROFILE/S-52	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
CPM / DFCC	
DY. PM (ENGG.)-BRC	
APM (ENGG.)-BRC	
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.	
PROJECT: - WESTERN DEDICATED FREIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)	



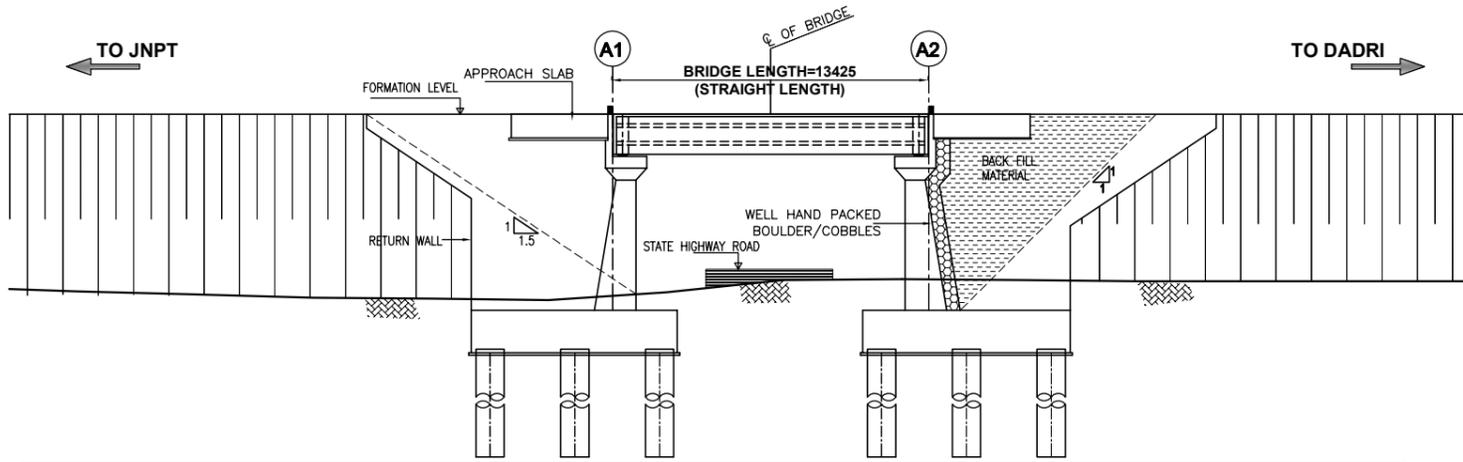
TITLE:- SECTION-5 (SACHIN - PALEJ) (ON DETOUR)
CONSTRUCTION OF BRIDGE NO. 338, 2X18.30m,
POST TENSIONED BOX GIRDER AT KM., (REV. CH. 169679.363),
GENERAL ARRANGEMENT DRAWING (SHEET - 3 OF 3)

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

THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

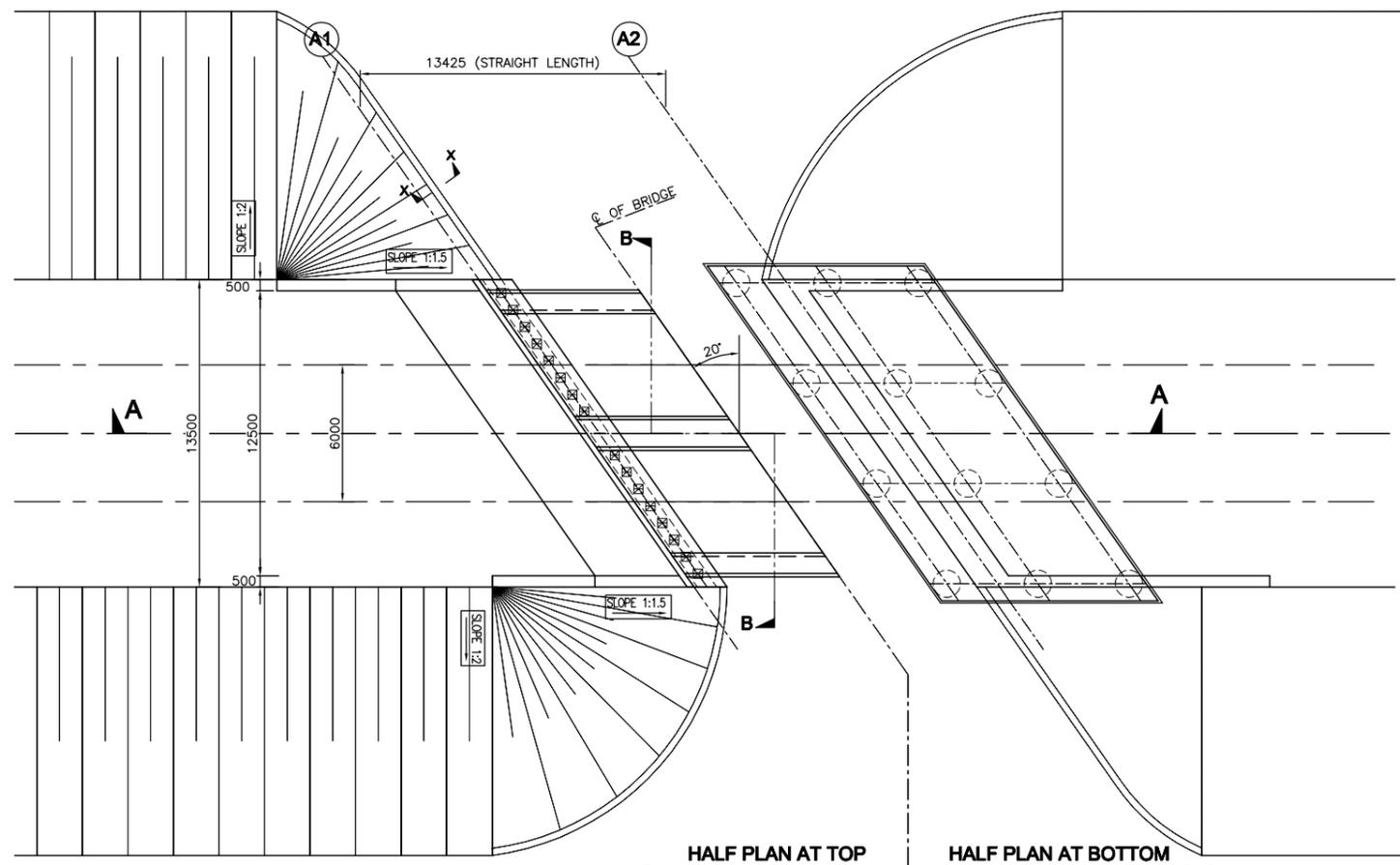
CONSULTING Engineers Group Ltd.
E-12, Moji Colony, Malviya Nagar Jaipur-17
Tel: +91-141- 2520899, 2521899, 2520556
Fax: 2521899, E-Mail: ceg@ceginia.com

DRAWN BY	CHECKED BY	REV. No.
G.N.S	V.K.S	
SCALE: - AS SHOWN		
PROJECT NO. 12/008	DRG. NO. - CEG/SACHIN-NADIADI/ GAD-BRIDGE/S-5/338	



FORMATION LEVEL		41.969	41.969	41.963	41.958	41.937
GROUND LEVEL		34.140	34.162	34.440	34.719	34.880
CHAINAGE		171528.34	171528.865	171535.577	171542.290	171568.34

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.
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 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 DFCC 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 PROVIDED IN RETURN WALL & ABUTMENT.
- 5) THE 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 GEO-TECHNICAL & 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	5
BRIDGE NO.	347
CHAINAGE	171535.577
SPAN CONFIGURATION	1X12.2m
OVERALL SPAN (mm)	13375
EFFECTIVE SPAN (mm)	12575
CLEAR SPAN (mm)	12200
TYPE OF STRUCTURE	PRESTRESSED CONTIGUOUS BOX
DEPTH OF SUPERSTRUCTURE (mm)	1780
TYPE OF CROSSING	STATE HIGHWAY
BRIDGE (STRAIGHT/CURVE/SKEW)	SKEW - 20°
FORMATION LEVEL R.L. (METER)	41.963
ROAD LEVEL R.L. (METER)	34.440
VERTICAL CLEARANCE MIN. (mm)	5000
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH - SUITABLE RESTRAINTS)	FIX - FREE

REFERENCE DRAWINGS:

DRAWING NO	SUBJECT
CEG/SACHIN-NADIADI/PLAN-PROFILE/S-59	L-SECTION

APPROVED

DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET. MANAGER / DFCC	GGM(Engg.-I)

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.

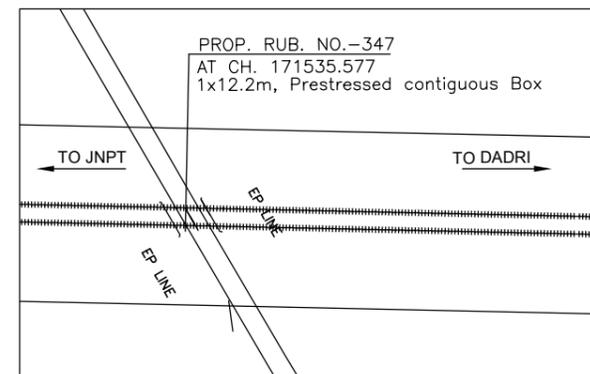
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)

CLIENT: -



TITLE: - SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 347, 1X12.20m. PRESTRESSED CONTIGUOUS BOX AT (REV CH. 171535.577)
GENERAL ARRANGEMENT DRAWING (SHEET : 1 OF 2)

DRAWN BY : R.K.Y.	CHECKED BY : V.K.S.	APPROVED BY : G.U.R.
SCALE : AS SHOWN	DATE: 01/06/2015 - 12:07pm	REV. No.
PROJECT NO. 12008	DRG NO. CEG/SACHIN-NADIADI/ GAD-BRIDGE /S-5347	

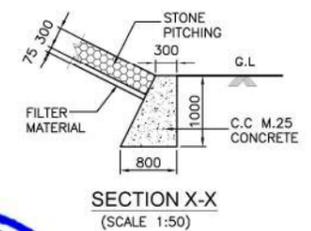
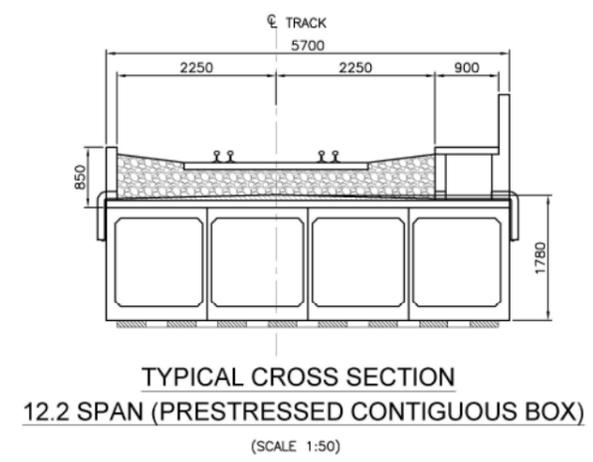
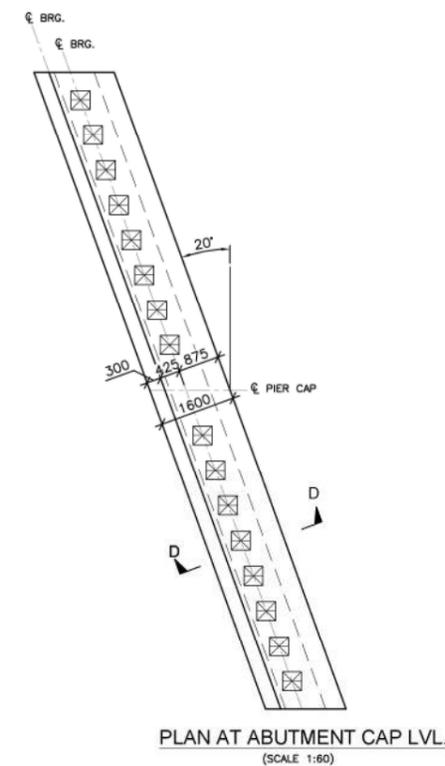
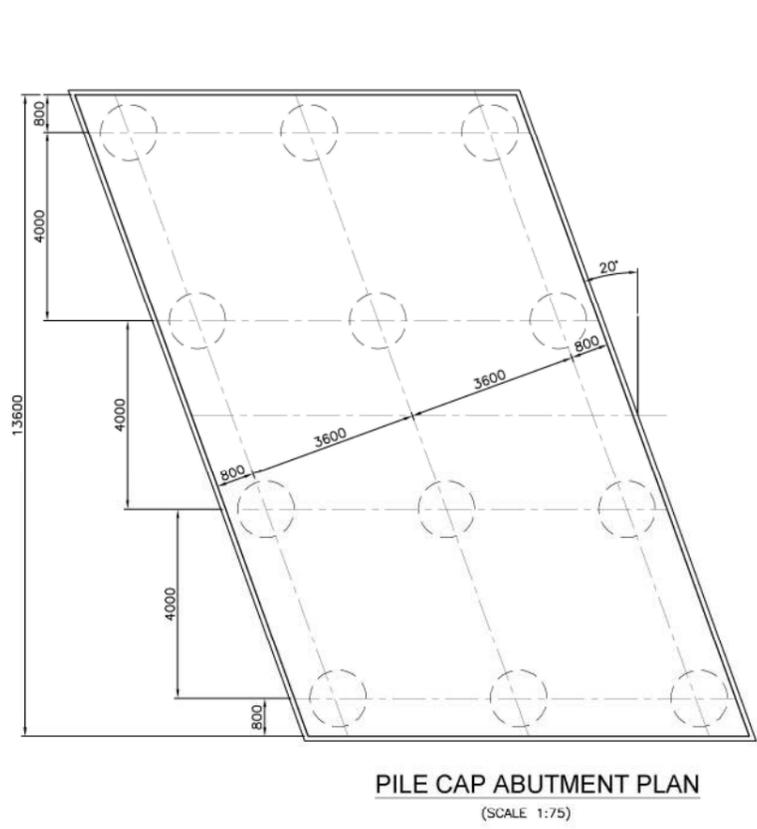
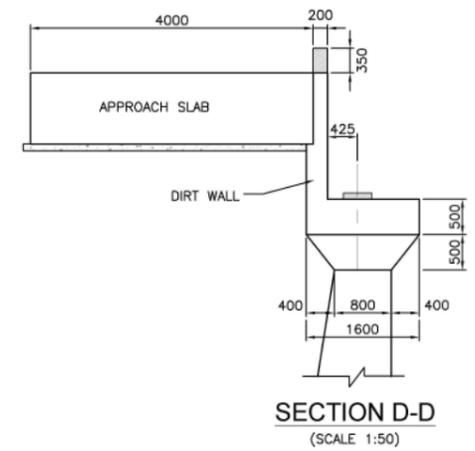
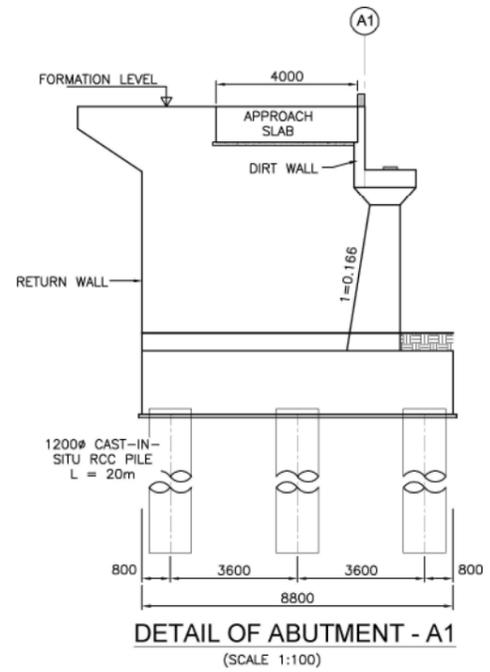
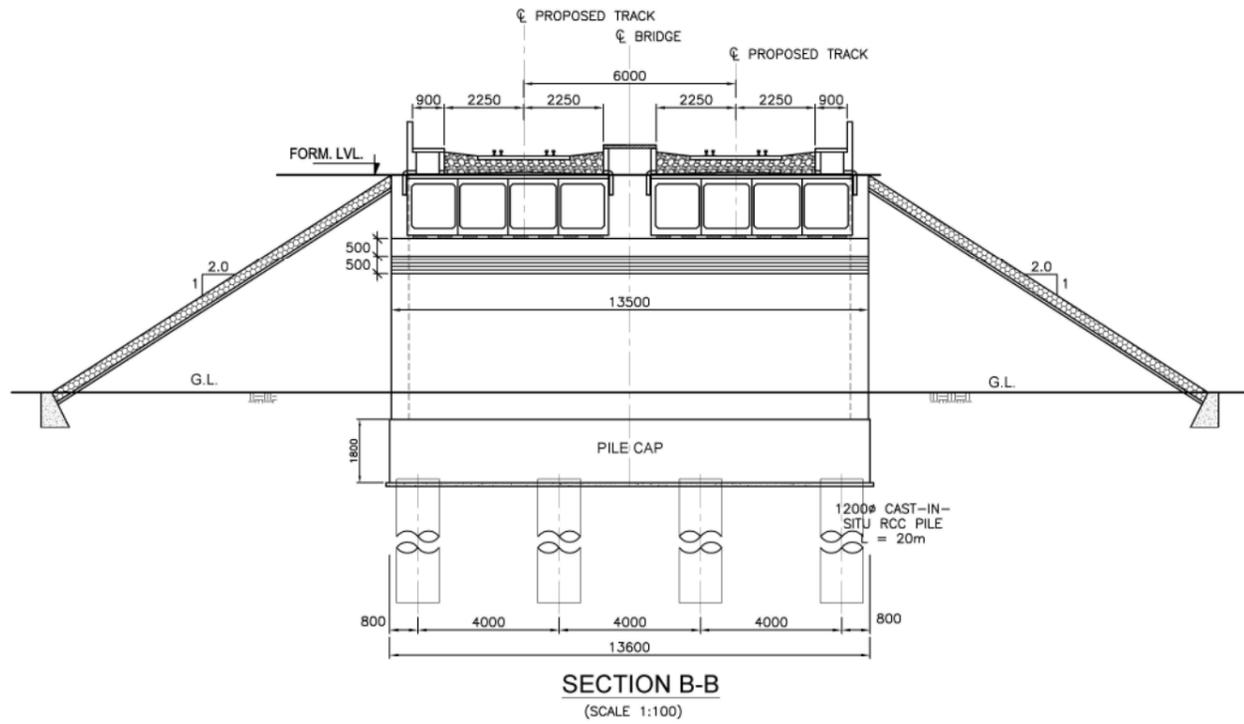


KEY-PLAN

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CEG CONSULTING Engineers Group Ltd.
E-12, Moji Colony, Malviya Agar Jaipur-17
Tel: +91-141-2520899, 2521899, 2520556
Fax: 2521899, E-Mail: ceg@ceginia.com



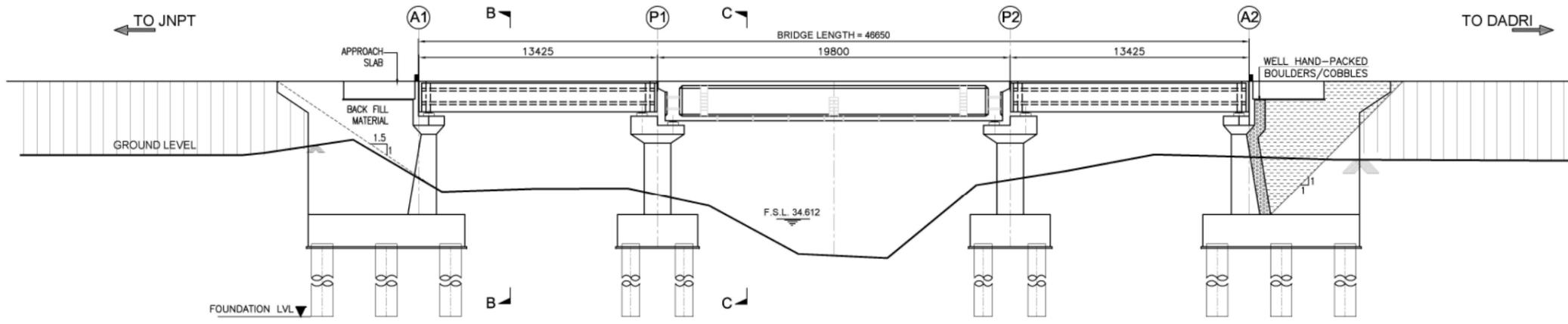
Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder



THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

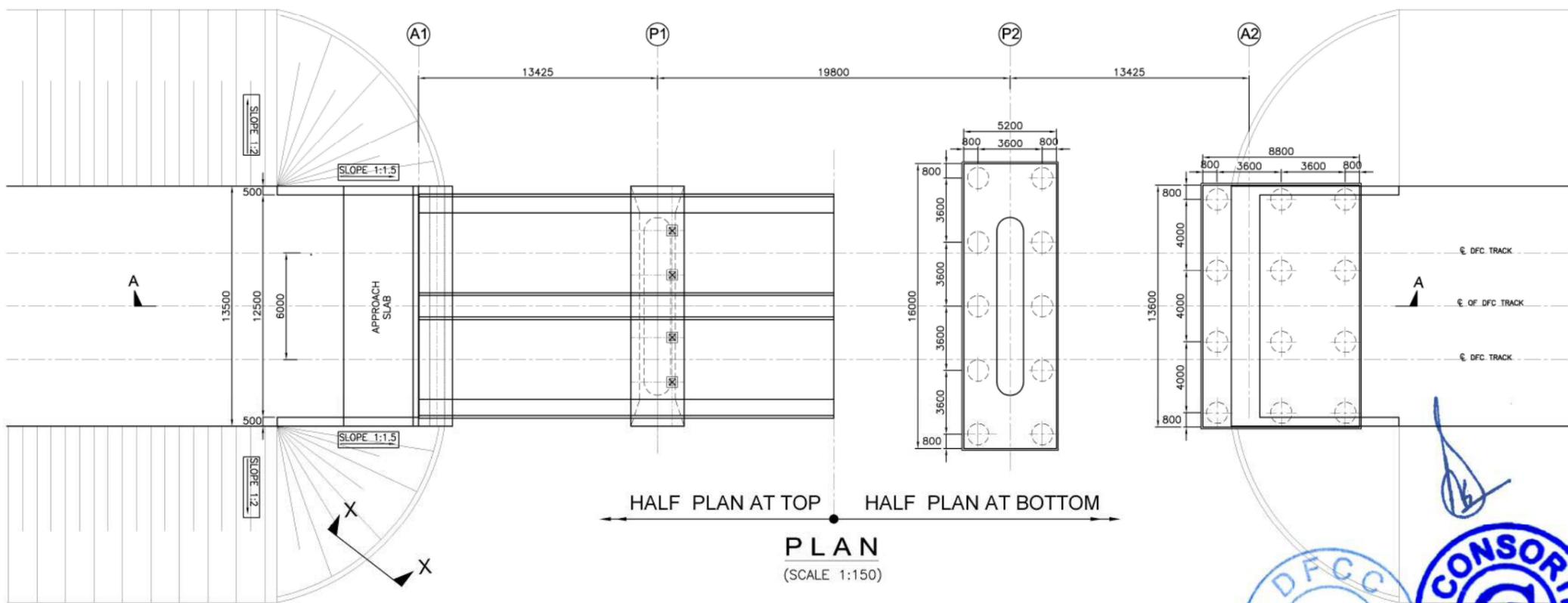
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 Fax: 2521899, E-Mail: ceg@ceginia.com

REFERENCE DRAWINGS:	
DRAWING NO	SUBJECT
CEG/SACHIN-NADIADI/PLAN-PROFILE/S-59	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET. MANAGER / DFCC	GGM(Engg.)
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.	
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)	
CLIENT: - 	
TITLE: - SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 347, 1X12.20m. PRESTRESSED CONTIGUOUS BOX AT (REV CH. 171535.577) GENERAL ARRANGEMENT DRAWING (SHEET: 2 OF 2)	
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:07pm
PROJECT NO. 12008	REV. NO.
	APPROVED BY: G.U.R.
	DRG. NO.: CEG/SACHIN-NADIADI/GAD-BRIDGE/S-5947



FORMATION LEVEL	42.229	42.283	42.322	42.362	42.415
GROUND LEVEL	37.248	35.783	35.867	35.981	37.352
CHAINAGE	173614.305	173627.730	173637.630	173647.530	173660.955

SECTIONAL ELEVATION A-A
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 IR 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 DFCC 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 PROVIDED IN RETURN WALL & ABUTMENT.
 - 5) JOE 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	5
BRIDGE NO.	355
CHAINAGE	173.637.630
SPAN CONFIGURATION (C/C) OF PIER	1X12.2m+1x18.3m+1x12.2m
OVERALL SPAN (mm)	13575 / 19750
EFFECTIVE SPAN (mm)	12575 / 18150
CLEAR SPAN (mm)	12200 / 18300
TYPE OF STRUCTURE	PRESTRESSED CONTIGUOUS BOX + POST TENSIONED BOX GIRDER
DEPTH OF SUPERSTRUCTURE (mm)	1780 / 2280
TYPE OF CROSSING	CANAL
BRIDGE (STRAIGHT/CURVE/SKEW)	STRAIGHT
FORMATION LEVEL R.L. (METER)	42.322
BED LEVEL R.L. (METER)	32.422
F.S.L. R.L. (METER)	34.612
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	-
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH - SUITABLE RESTRAINTS)	FIX - FREE

REFERENCE DRAWINGS:	
DRAWING NO	SUBJECT
CEG/SACHIN-NADIADI PLAN-PROFILE/S-510	L-SECTION

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	CPM/DFCC
MANAGER / DFCC	GGM/Engg.H
ASSET MANAGER / DFCC	

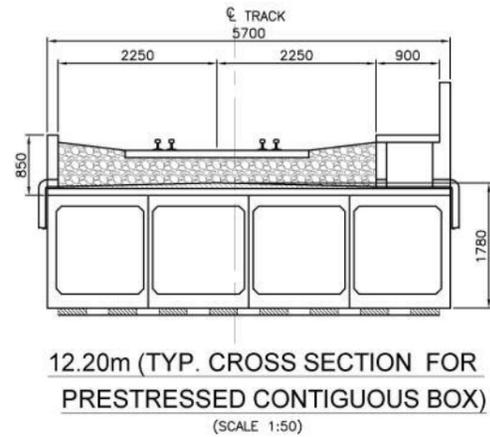
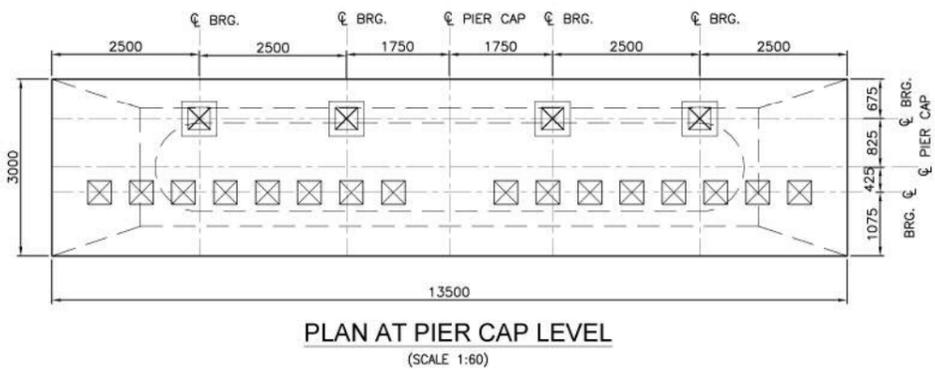
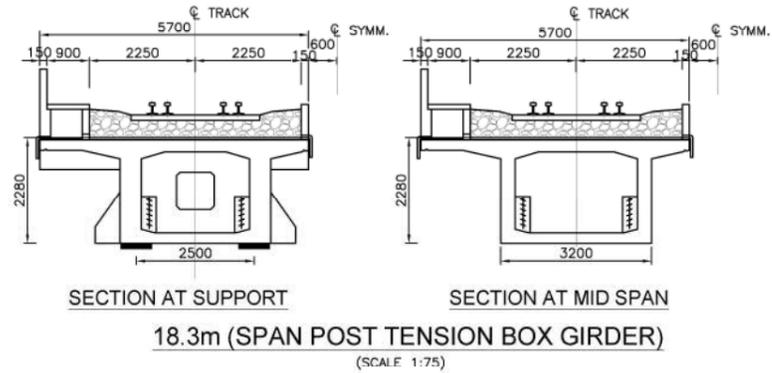
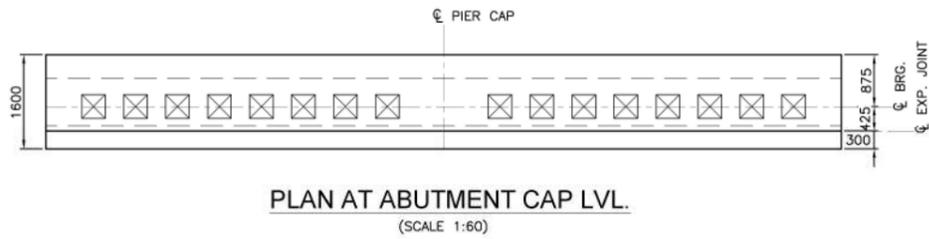
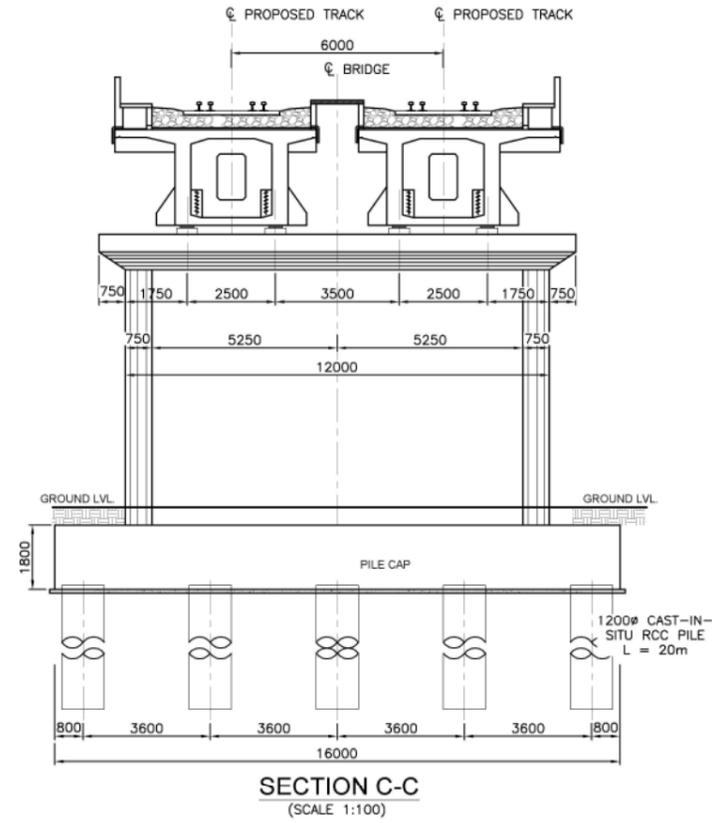
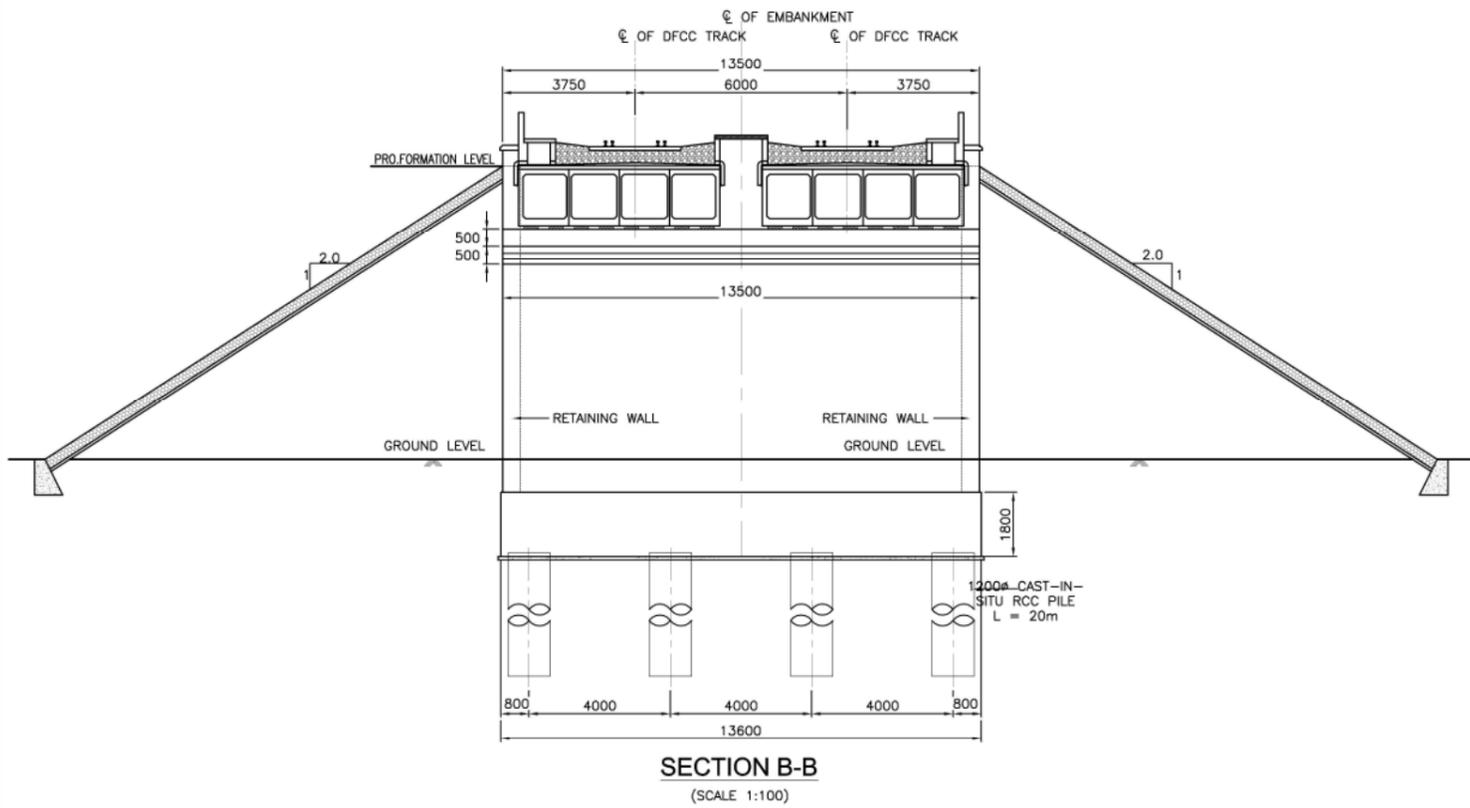
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.
PROJECT: - WESTERN DEDICATED FREIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)



TITLE: - SECTION NO. 05 (VASAD - PALEJ) ON DETOUR CONSTRUCTION OF BRIDGE NO. 355, (FOR CANAL) PSC BOX GIRDER & PRESTRESSED CONTIGUOUS BOX AT KM. (REV. CH.173637.63).
GENERAL ARRANGEMENT DRAWING (SHEET: 1 OF 3)

DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:19pm	REV. No.
PROJECT NO: 1/2008	DRG NO: CEG/SACHIN-NADIADI/GAD-BRIDGE/S-5355	



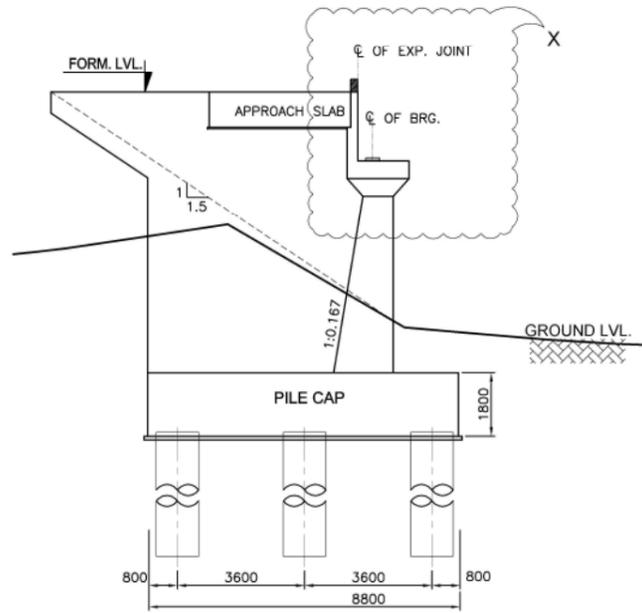


Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

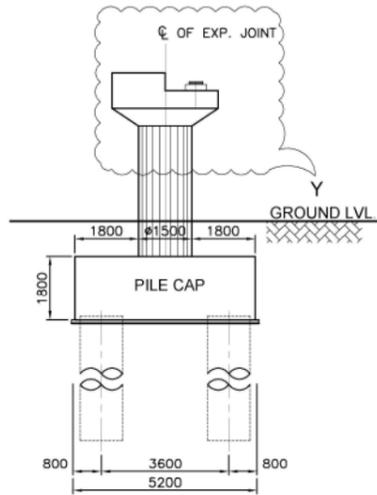
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C E G CONSULTING Engineers Group Ltd.
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 Tel: +91-141-2520898, 2521899, 2520556
 Fax: 2521899, E-Mail: ceg@cegindia.com

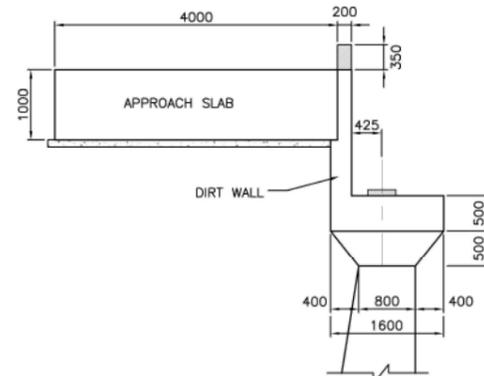
REFERENCE DRAWINGS:		
DRAWING NO	SUBJECT	
CEG/SACHIN-NADIAD/PLAN-PROFILES-510	L-SECTION	
APPROVED		
DESIGNATION	INITIALS OF APPROVING OFFICIALS	
G.M. / DFCC	CPM/DFCC	
MANAGER / DFCC	GGM(Engg.)/H	
ASSET. MANAGER / DFCC		
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.		
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)		
CLIENT: - 		
TITLE: - SECTION NO. 05 (VASAD - PALEJ) ON DETOUR CONSTRUCTION OF BRIDGE NO. 355, (FOR CANAL), PSC BOX GIRDER & PRESTRESSED CONTIGUOUS BOX AT KM. (REV. CH.173637.63) GENERAL ARRANGEMENT DRAWING (SHEET : 2 OF 3)		
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:19pm	REV. No.
PROJECT NO. 12008	DRG. NO.:	CEG/SACHIN-NADIAD/GAD-BRIDGE/S-5055



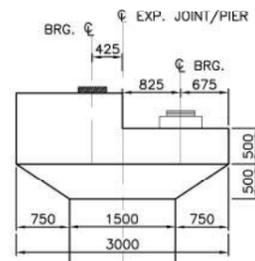
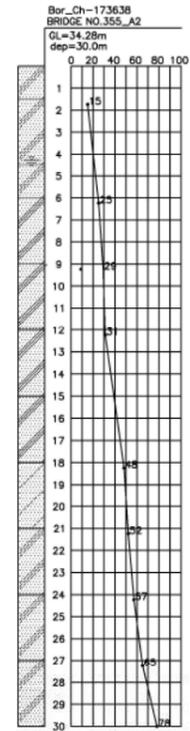
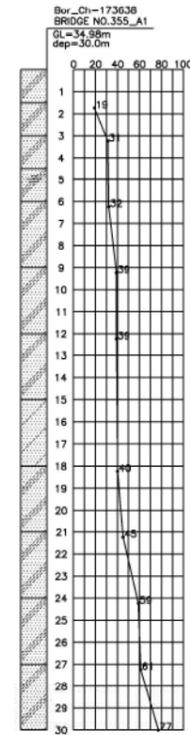
ABUTMENT DETAIL - A1
(SCALE 1:100)



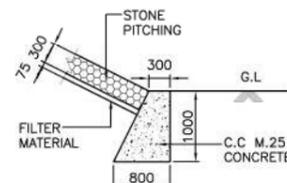
TYPICAL DETAIL OF PIER
(SCALE 1:100)



DETAIL - A
(SCALE 1:50)



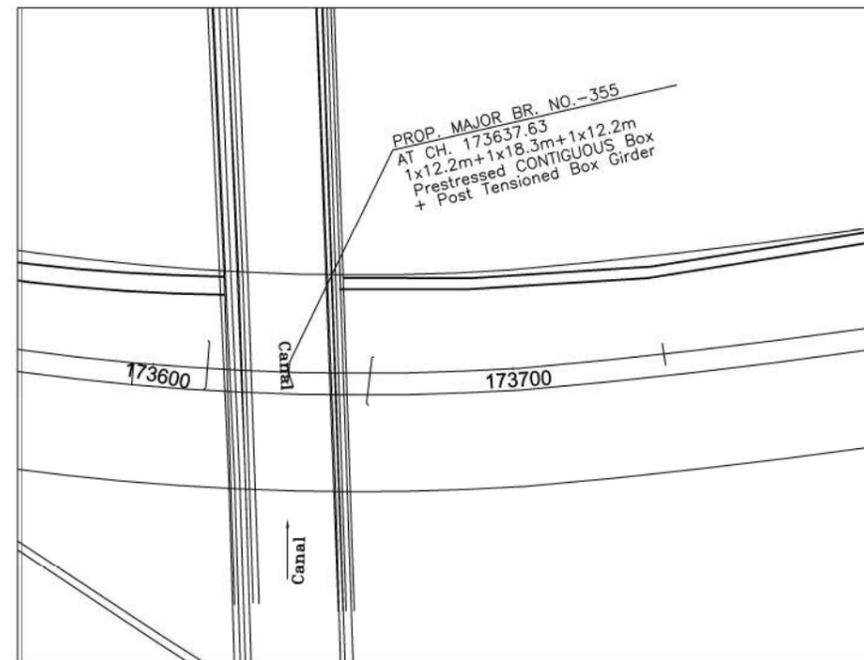
DETAIL - Y
(SCALE 1:40)



DETAIL X-X
(SCALE 1:50)

LEGEND:

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



REFERENCE DRAWINGS:	
DRAWING NO.	SUBJECT
CEG/SACHIN-NADIAD/PLAN-PROFILES-510	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	CPM/DFCC
MANAGER / DFCC	GGM/Engg./H
ASSET. MANAGER / DFCC	
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.	
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)	
CLIENT: -	

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

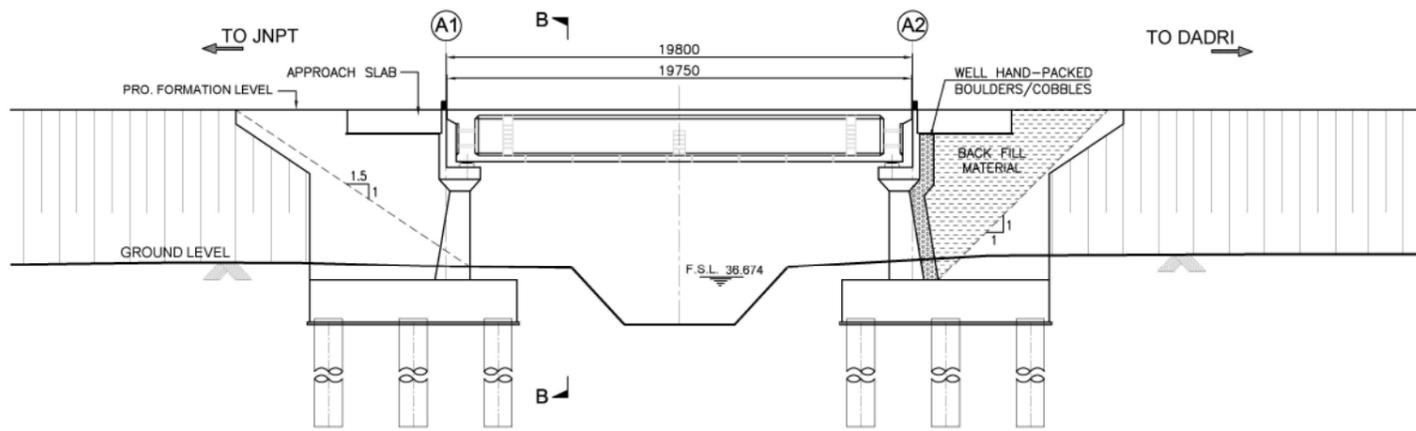
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Engineers Group Ltd.
E-12, Moji Colony, Malviya Nagar Jaipur-17
Tel: +91-141- 2520898, 2521899, 2520556
Fax: 2521899, E-Mail: ceg@cegindia.com

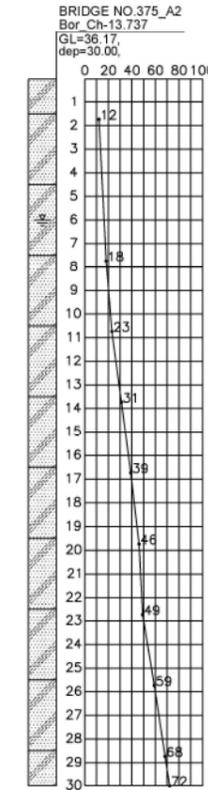
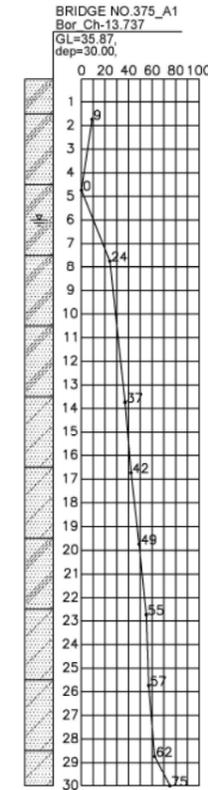
TITLE: - SECTION NO. 05 (VASAD - PALEJ) ON DETOUR CONSTRUCTION OF BRIDGE NO. 355, (FOR CANAL), PSC BOX GIRDER & PRESTRESSED CONTIGUOUS BOX AT KM. (REV. CH.173637.63) GENERAL ARRANGEMENT DRAWING (SHEET : 3 OF 3)

DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:19pm	REV. No.
PROJECT NO. 12008	DRG. NO.:	CEG/SACHIN-NADIAD/GAD-BRIDGE/S-5055

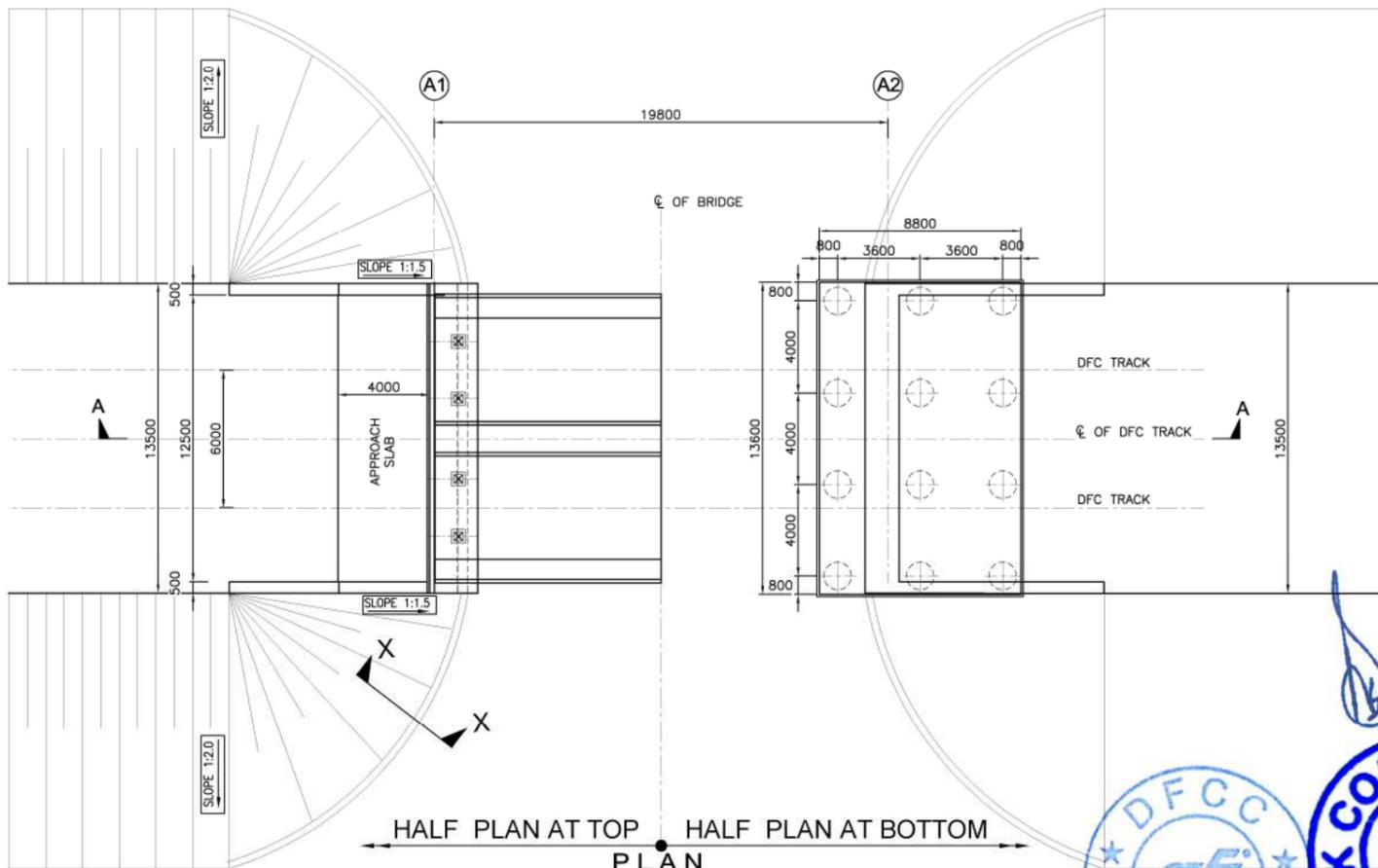


SECTIONAL ELEVATION A-A
SCALE(1:150)

FORMATION LEVEL :		37.100	36.924	43.795	
GROUND LEVEL :		37.100	36.924	37.460	37.460
CHAINAGE :		177794.446	177804.346		177814.246



- GENERAL NOTES:**
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 - LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 - GROUND PROFILE SHOULD BE VERIFIED BEFORE EXECUTION.
- SUPERSTRUCTURE & SUBSTRUCTURE**
- THE BRIDGE SHALL BE DESIGNED AS PER DFCC LOADING (32.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO. (WITH LATEST CORRECTION SLIP).
 - THE BRIDGE SHALL BE DESIGNED AS PER THE SEISMIC ZONE FOR THE AREA.
 - BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - WEEP HOLES SHALL BE PROVIDED IN RETURN WALL & ABUTMENT.
 - THE FOUNDATION BOLTS SHALL BE PROVIDED IN CONSULTATION WITH THE CONTRACTOR OF EMP-4.
 - RAILING EXPANSION JOINTS, BEARING, WEARING COAT, FOOTPATH, SERVICE DUCT, DRAINAGE SHALL BE PROVIDED AS PER SPECIFICATION.
 - FOR INSPECTION OF BEARING / SUPERSTRUCTURE, SUITABLE ARRANGEMENT SHALL BE PROVIDED.
 - FOR CHANGING OF BEARING SUITABLE ARRANGEMENT SHALL BE PROVIDED.
- GEO-TECHNICAL**
- FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT.
 - GEO-TECHNICAL BORE HOLE DATA REFERED IN GAD IS INDICATIVE ONLY.
 - 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

LEGEND:

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

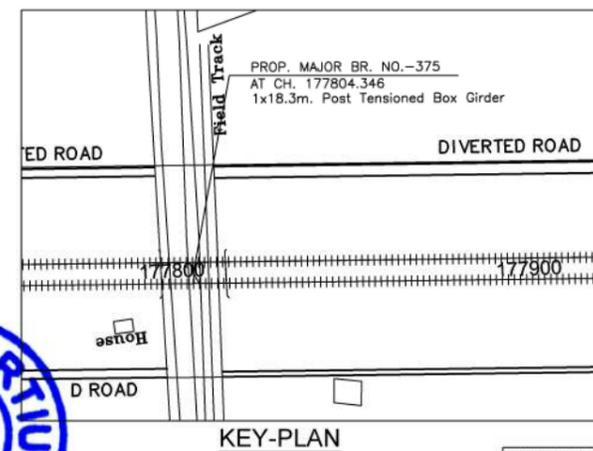


TABLE-1

DETAILS	PROPOSED DFC
PACKAGE	3
SECTOR	5
BRIDGE NO.	375
CHAINAGE	177804.346
SPAN CONFIGURATION (C/C) OF PIER	1x18.3m
OVERALL SPAN (mm)	19750
CLEAR SPAN (mm)	18300
TYPE OF STRUCTURE	POST TENSIONED BOX GIRDER
DEPTH OF SUPERSTRUCTURE (mm)	2280
TYPE OF CROSSING	CANAL & CART TRACK
BRIDGE (STRAIGHT/CURVE/SKEW)	STRAIGHT
FORMATION LEVEL R.L. (METER)	43.795
BED LEVEL R.L. (METER)	34.674
F.S.L. R.L. (METER)	36.674
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	-
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH - SUITABLE RESTRAINTS)	FIX & FREE

REFERENCE DRAWINGS:

DRAWING NO	SUBJECT
CEG/SACHIN-NADIAD/PLAN-PROFILE/S-91	L-SECTION

APPROVED

DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASST. MANAGER / DFCC	GGM/Engg. H

STANDARD OF LOADING: 32.5 TONNE AXLE LOAD, 12 TM TRAILING LOAD.

PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)



TITLE: - SECTION 05 (VASAD-PALEJ) CONSTRUCTION OF BRIDGE NO. 375 (FOR CANAL & CART TRACK CROSSING), 1x18.30. POST TENSIONED BOX GIRDER, REV.CH.177804.346. GENERAL ARRANGEMENT DRAWING (SHEET - 1 OF 2)

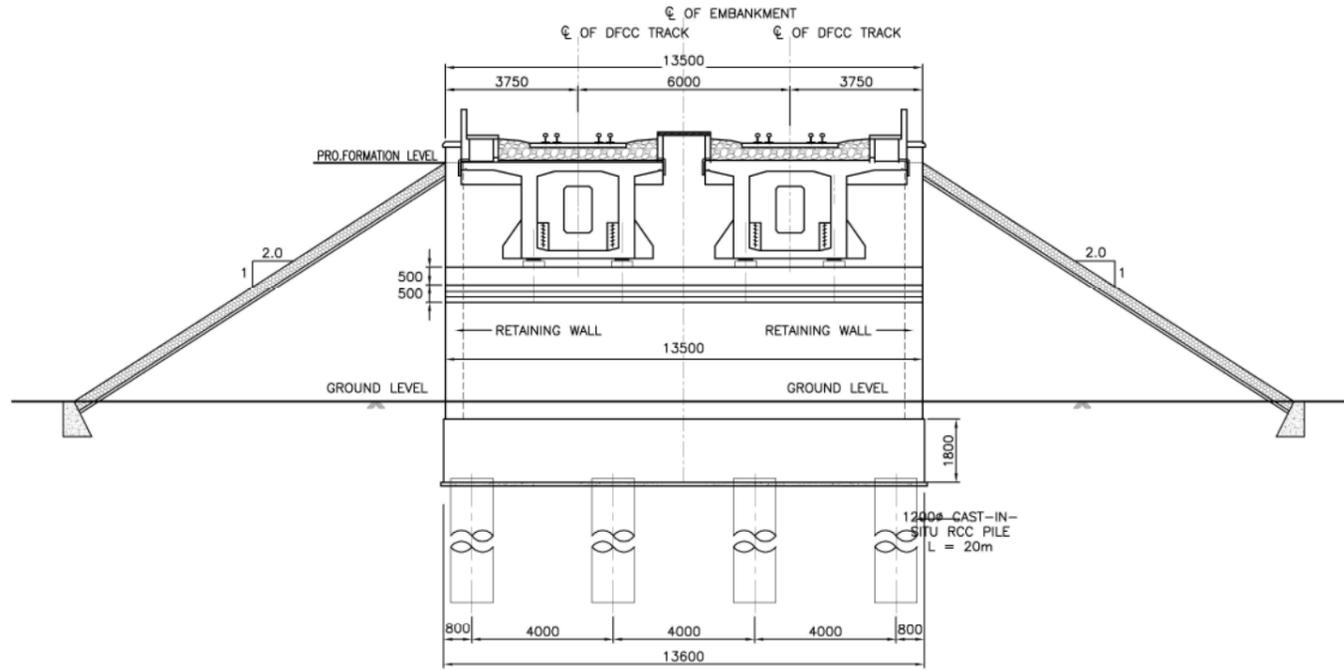


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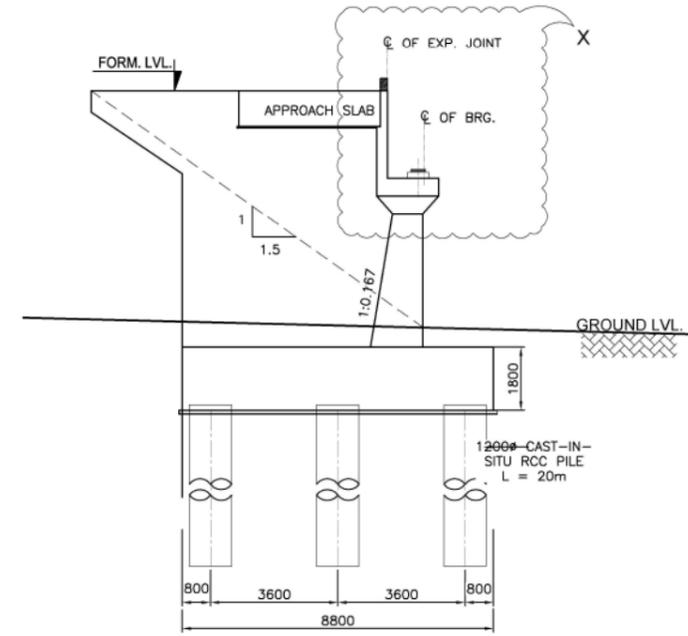
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CONSULTING Engineers Group Ltd. E-12, Mohli Colony, Malviya Nagar Jaipur-17. Tel: +91-141- 2520899, 2521899, 2520556 Fax: 2521899, E-Mail:ceg@ceginia.com

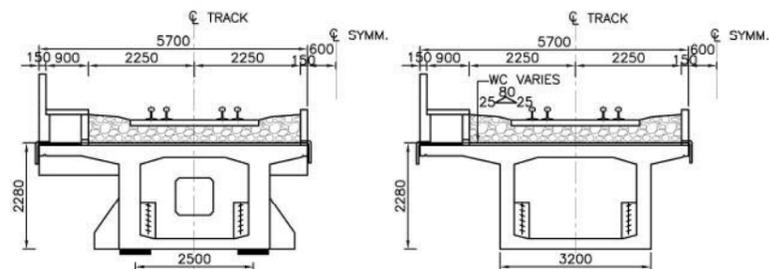
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: April 18, 2010	REV. No. R1
PROJECT NO: 1/2008	DRG NO: CEG/SACHIN/NADIAD/GAD BRIDGE/S-5075	



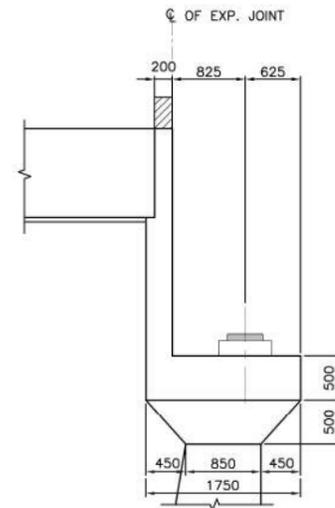
SECTION B-B
(SCALE 1:100)



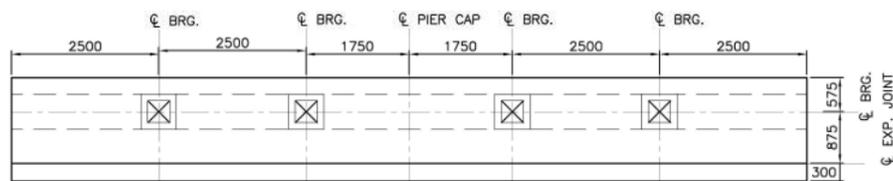
ABUTMENT DETAIL - A1
(SCALE 1:100)



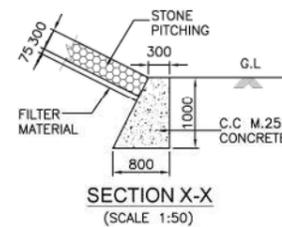
SECTION AT SUPPORT (SCALE 1:75)
SECTION AT MID SPAN (SCALE 1:75)
18.3m (SPAN POST TENSION BOX GIRDER)



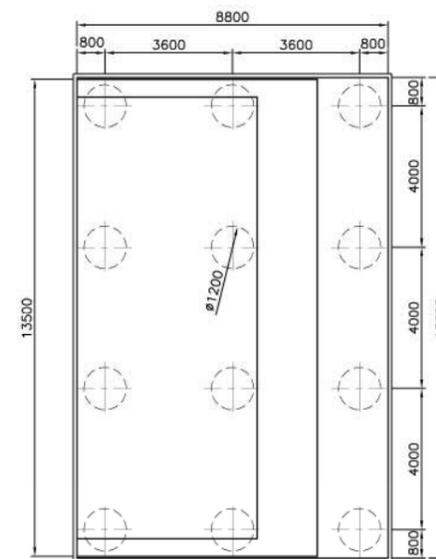
DETAIL - X
(SCALE 1:40)



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



SECTION X-X
(SCALE 1:50)



PLAN AT ABUTMENT FOUNDATION LEVEL
(SCALE 1:100)



REFERENCE DRAWINGS:	
DRAWING NO	SUBJECT
CEG/SACHIN-NADIAD/PLAN-PROFILES-51	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASST. MANAGER / DFCC	GGM(Engg.)-I
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.	

PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)

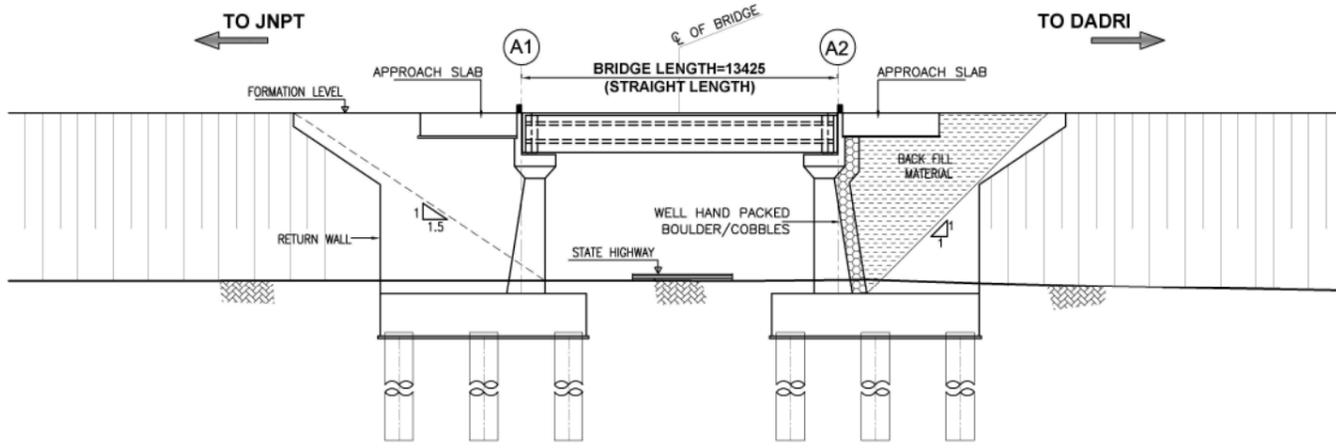


Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

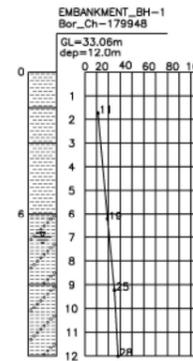
CONSULTING Engineers Group Ltd. E-12, Mojil Colony, Malviya Nagar Jaipur-17 Tel: +91-141-2520898, 2521899, 2520556 Fax: 2521899, E-Mail: ceg@cegindia.com

DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: April 18, 2010	REV. No. R1
PROJECT NO. 12008	DRG. NO. CEG/SACHIN-NADIAD/GID-BRIDGE IS 5015	



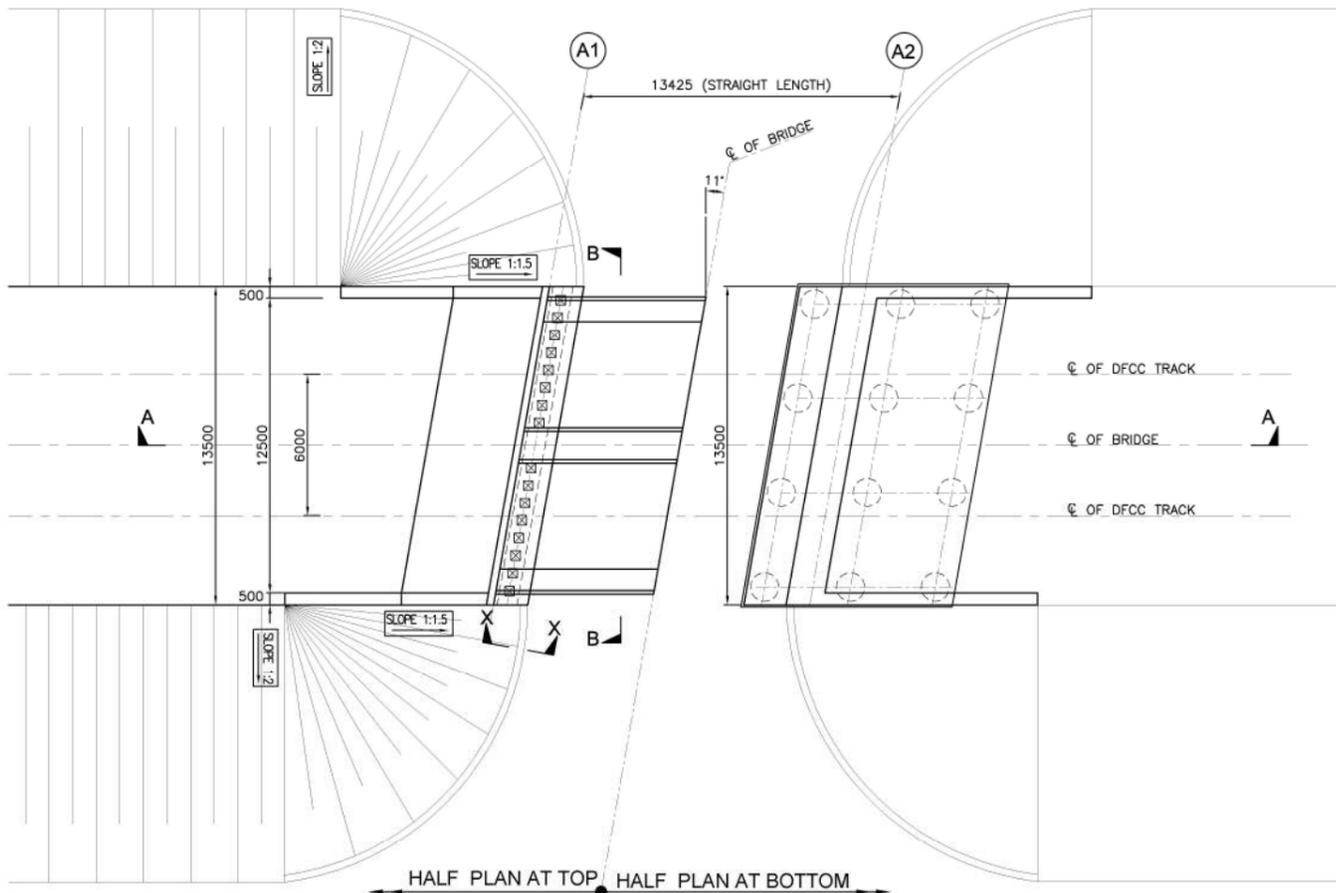
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GROUND LEVEL	33.370	33.365	33.361	33.360	33.298	33.030
CHAINAGE	179928.34	179938.688	179945.400	179948.34	179952.113	179968.34

LONGITUDINAL SECTION A-A
(SCALE 1:150)



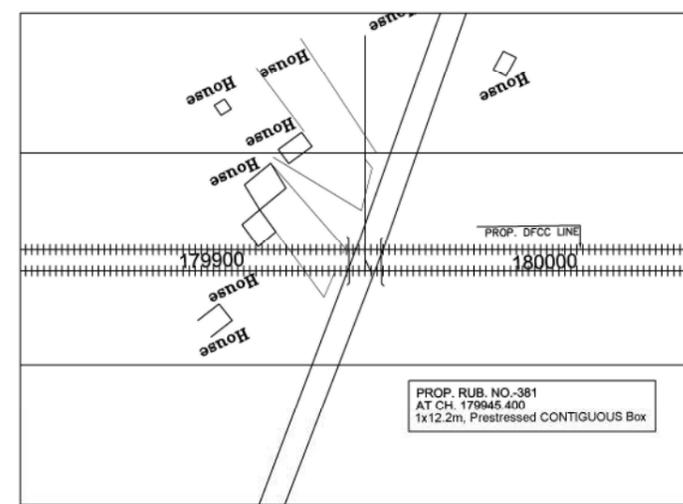
LEGEND:

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



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



KEY-PLAN

TABLE-1

DETAILS	PROPOSED DFC
PACKAGE	3
SECTOR	5
BRIDGE NO.	381
CHAINAGE	179,945.400
SPAN CONFIGURATION	1x12.2m
OVERALL SPAN (mm)	13375
EFFECTIVE SPAN (mm)	12575
CLEAR SPAN (mm)	12200
TYPE OF STRUCTURE	PRESTRESSED CONTIGUOUS BOX
DEPTH OF SUPERSTRUCTURE (mm)	1780
TYPE OF CROSSING	STATE HIGHWAY
BRIDGE (STRAIGHT/CURVE/SKEW)	SKEW - 11°
FORMATION LEVEL R.L. (METER)	40.489
BED LEVEL R.L. (METER)	33.361
VERTICAL CLEARANCE MIN. (mm)	5000
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH - SUITABLE RESTRAINTS)	FIX - FREE

REFERENCE DRAWINGS:

DRAWING NO	SUBJECT
CEGISACHIN-NADIADI PLAN-PROFILE/S-59	L-SECTION

APPROVED

DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET MANAGER / DFCC	GGM/Engg H

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.

PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)



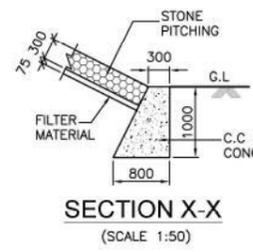
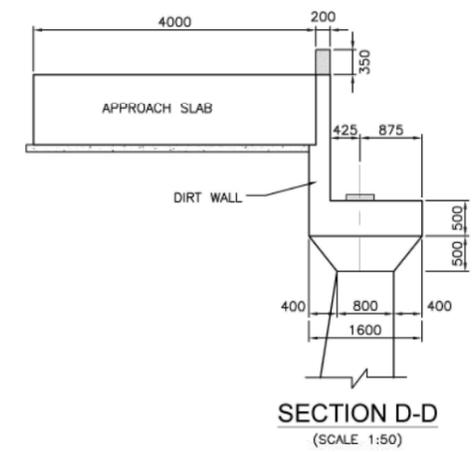
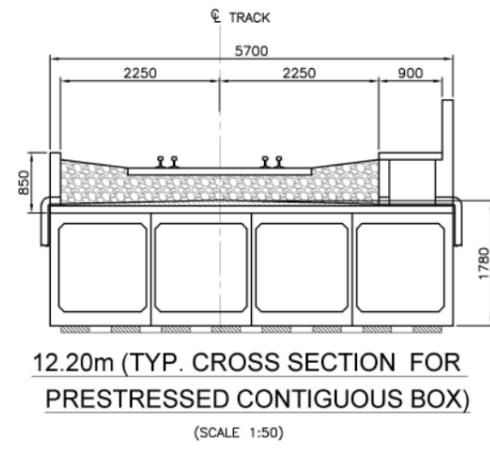
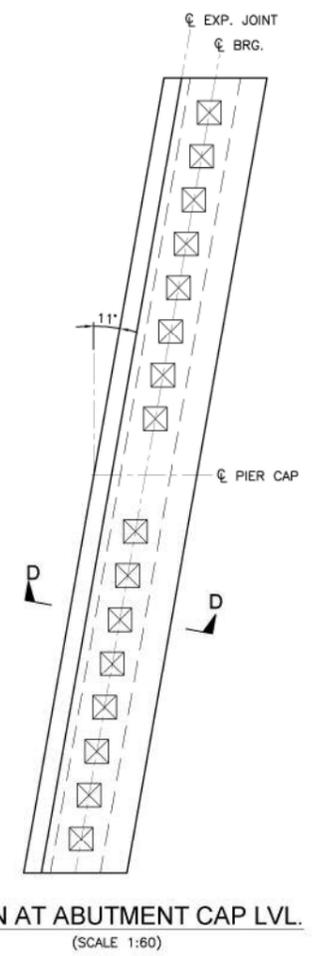
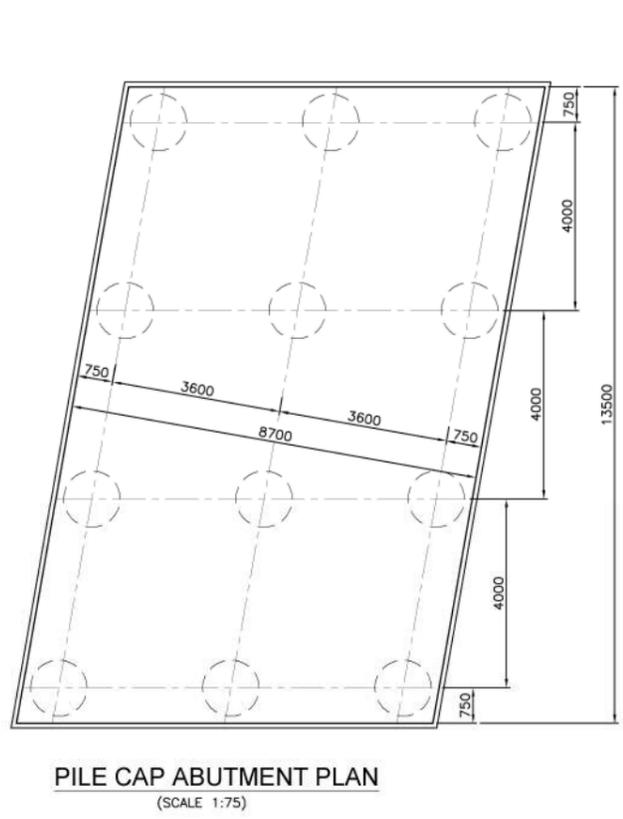
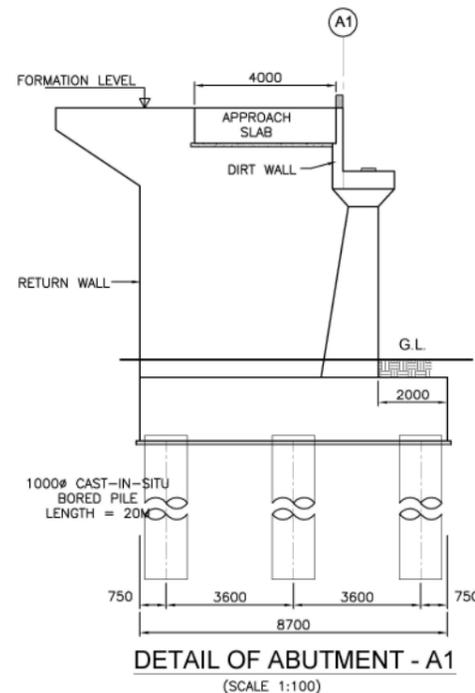
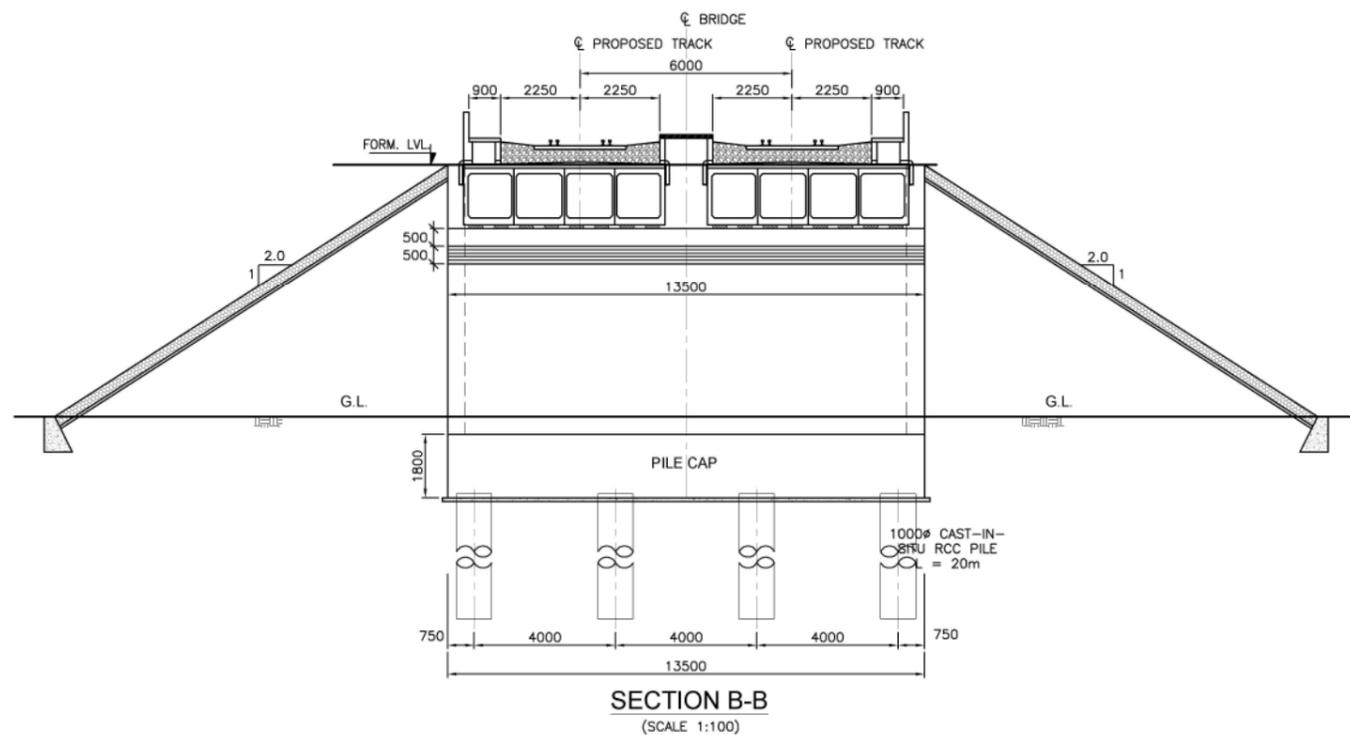
TITLE:- SECTION NO. 05 (VASAD - PALEJ)
CONSTRUCTION OF BRIDGE NO. 381, 1x12.20m.
PRESTRESSED CONTIGUOUS BOX AT (REV CH. 179945.400)
GENERAL ARRANGEMENT DRAWING (SHEET : 1 OF 2)



THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM

CONSULTING Engineers Group Ltd.
E-12, Moji Colony, Malviya Nagar Jaipur-17
Tel: +91-141-2520899, 2521899, 2520556
Fax: 2521899, E-Mail:ceg@ceginia.com

DRAWN BY: R.K.Y	CHECKED BY: V.K.S	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:23pm	REV. No.
PROJECT NO: 12008	DRG NO: -	CEGISACHIN-NADIADI GAD-BRIDGE/S-5081

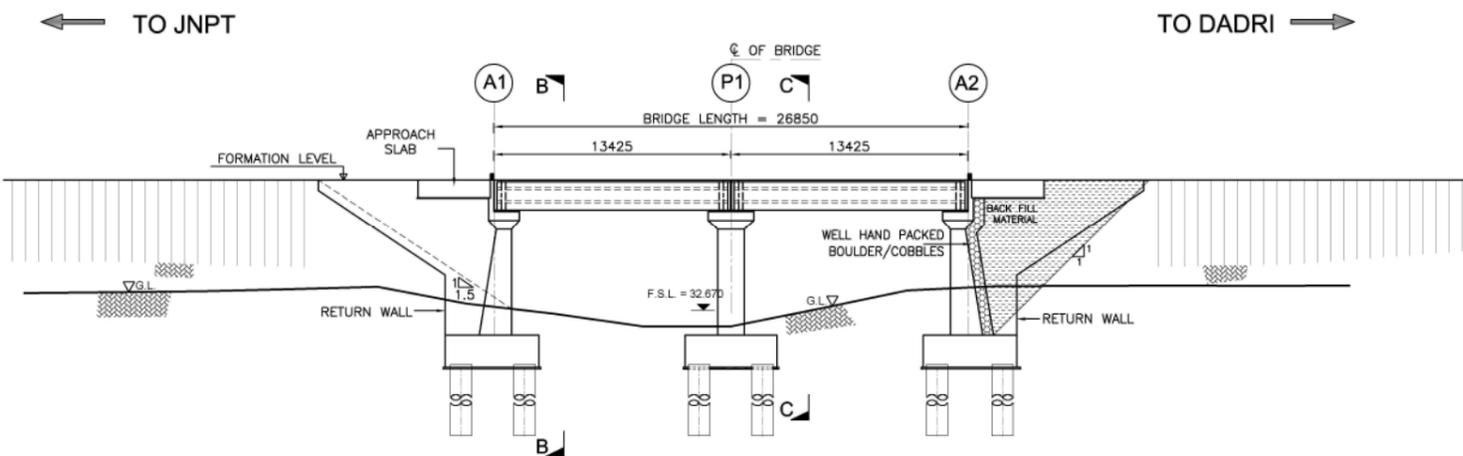


Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

REFERENCE DRAWINGS:		
DRAWING NO.	SUBJECT	
CEG/SACHIN-NADIADI/PLAN-PROFILE/S-59	L-SECTION	
APPROVED		
DESIGNATION	INITIALS OF APPROVING OFFICIALS	
G.M. / DFCC		
MANAGER / DFCC	CPM/DFCC	
ASSET. MANAGER / DFCC	GGM(Engg.)	
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.		
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN MUMPT (NEAR MUMBAI) - DADRI (NEAR DELHI)		
CLIENT: - DFCC		
TITLE:- SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 381, 1X12.20m. PRESTRESSED CONTIGUOUS BOX. AT (REV CH. 179945.400) GENERAL ARRANGEMENT DRAWING (SHEET : 2 OF 2)		
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:23pm	REV. No.
PROJECT NO. 12008	DRG. NO.:	CEG/SACHIN-NADIADI/GAD BRIDGE/S-5981

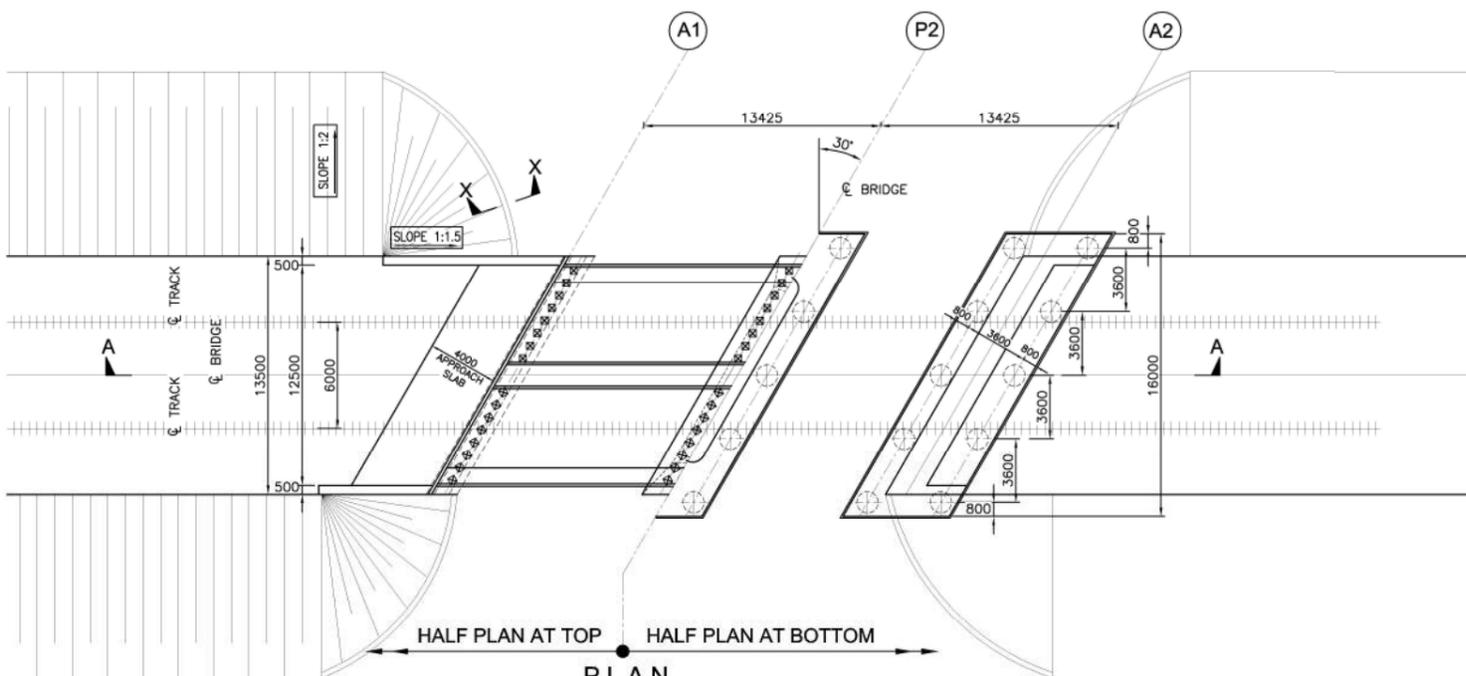
THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

CONSULTING Engineers Group Ltd. E-12, Moji Colony, Malviya Agar Jaipur-17 Tel: +91-141- 2520898, 2521899, 2520556 Fax: 2521899, E-Mail:ceg@cegindia.com

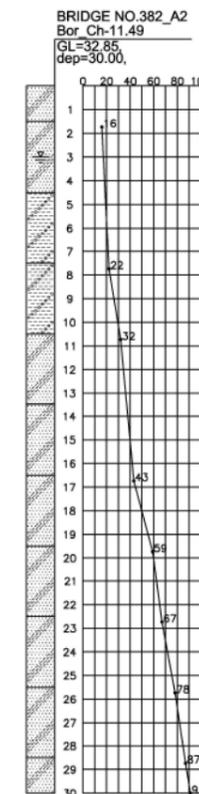
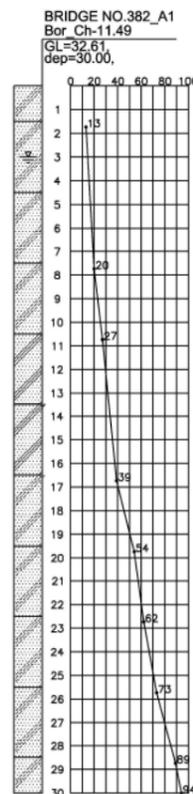


FORMATION LVL.	i	40.527	i
GROUND LVL.	180038.320	32.252	180064.530
CHAINAGE	180051.425	180064.530	180064.530

SECTIONAL ELEVATION 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 DFCC 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 PROVIDED IN RETURN WALL & ABUTMENT.
 - 5) SHE 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	5
BRIDGE NO.	382
CHAINAGE	180051.425
SPAN CONFIGURATION (C/C) OF PIER	2 X 12.20m
OVERALL SPAN (mm)	13375
EFFECTIVE SPAN (mm)	12575
CLEAR SPAN (mm)	12200
TYPE OF STRUCTURE	PRESTRESSED CONTIGUOUS BOX
DEPTH OF SUPERSTRUCTURE (mm)	1780
TYPE OF CROSSING	DRAIN & CART TRACK
BRIDGE (STRAIGHT/CURVE/SKEW)	SKEW 30°
FORMATION LEVEL R.L. (METER)	40.527
H.F.L. R.L. (METER)	32.670
BED LEVEL R.L. (METER)	32.252
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH SUITABLE RESTRAINTS)	FIX - FREE

REFERENCE DRAWINGS:

DRAWING NO	SUBJECT
CEG/SACHIN/NADIADI/PLAN-PROFILE/S-56	L-SECTION

APPROVED

DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET. MANAGER / DFCC	GGM(E)Pg-1

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.

PROJECT: -
WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)



TITLE:- SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 382(CART TRACK & DRAIN CROSSING), 1X12.20m. PSC BOX GIRDER AT KM (REV CH. 180051.425) GENERAL ARRANGEMENT DRAWING (SHEET 1 OF 3)

DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:24pm	REV. No.
PROJECT NO. 12005	DRG. NO.	CEG/SACHIN/NADIADI/GAD.BRIDGE/IS-5382

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

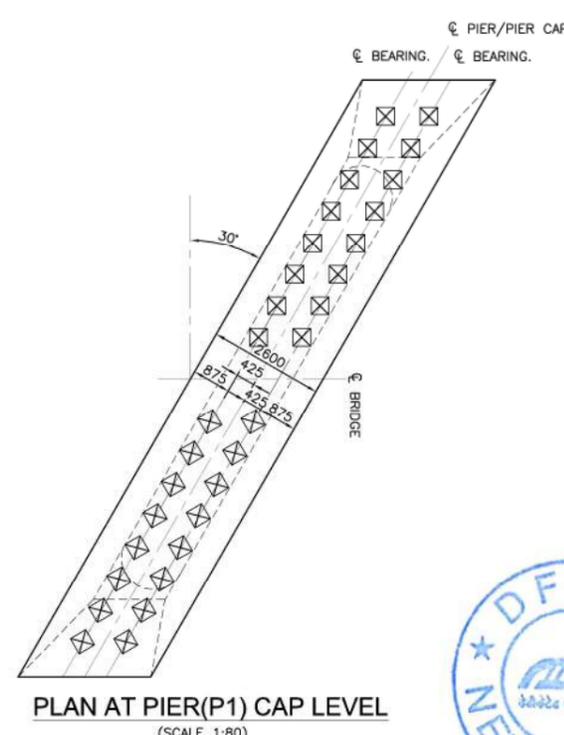
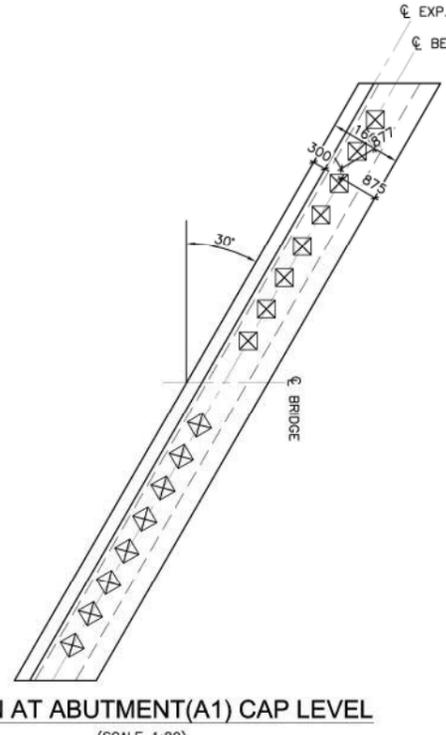
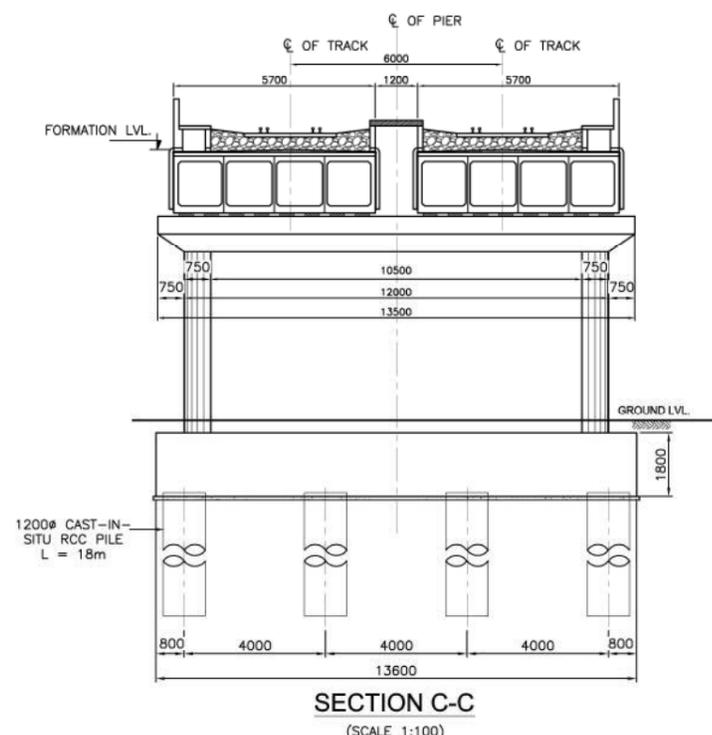
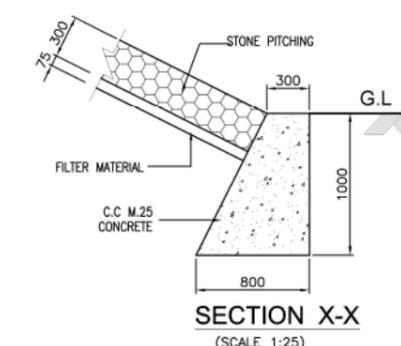
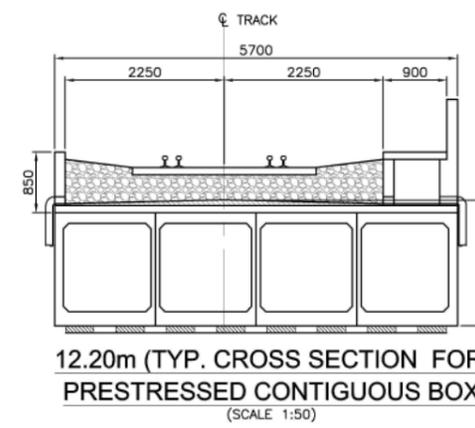
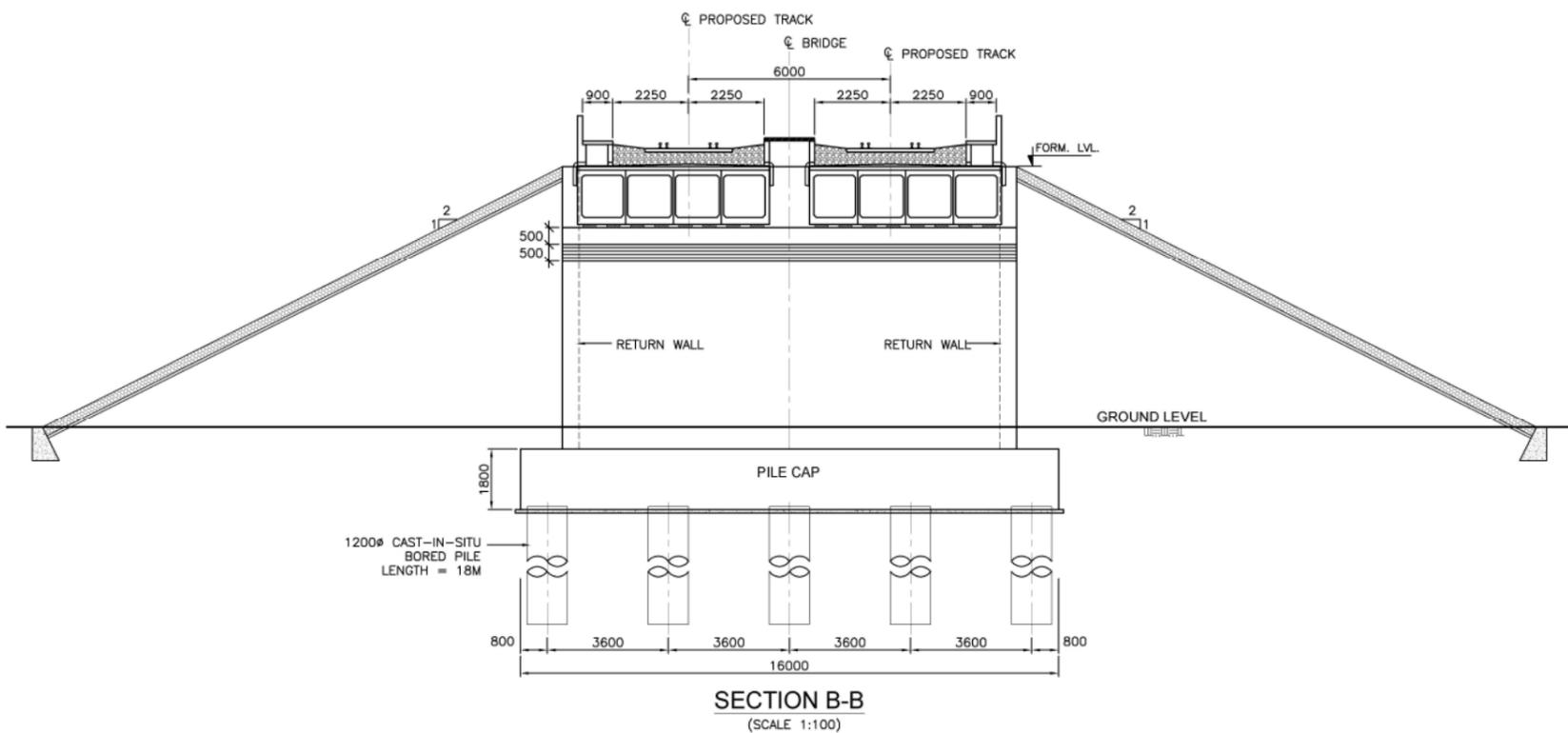
Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder



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CONSULTING Engineers Group Ltd.
E-12, Maji Colony, Malviya Agar Jaipur-17
Tel: +91-141- 2520899, 2521899, 2520556
Fax: 2521899, E-Mail:ceg@cegindia.com



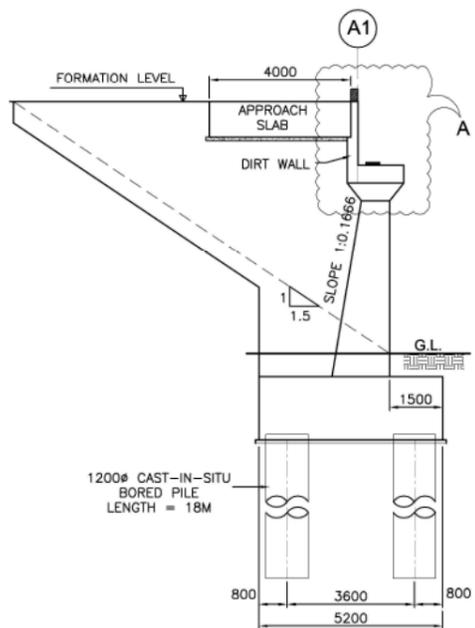
REFERENCE DRAWINGS:	
DRAWING NO.	SUBJECT
CEG/SACHIN/HADIADI/PLAN-PROFILE/S-56	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET. MANAGER / DFCC	GGMI/Engrg-I
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.	
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JUNIT (NEAR MUMBAI) - DADRI (NEAR DELHI)	

CLIENT: - 		
TITLE: - SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 382 (CART TRACK & DRAIN CROSSING), 1X12.20m. PSC BOX GIRDER AT KM (REV CH. 180051.425) GENERAL ARRANGEMENT DRAWING (SHEET : 2 OF 3)		
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:24pm	REV. No.
PROJ. NO. 12005	DRG. NO.	CEG/SACHIN/HADIADI/GAD.BRIDGE/S-5382

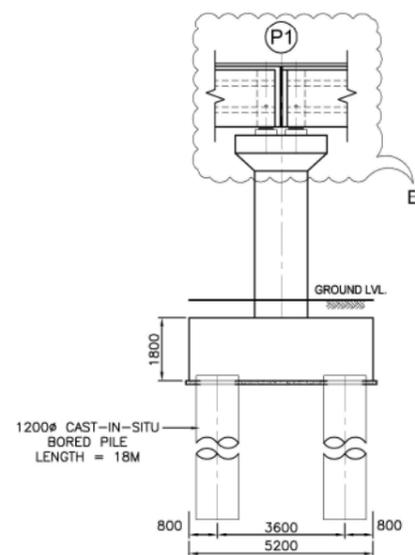
Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

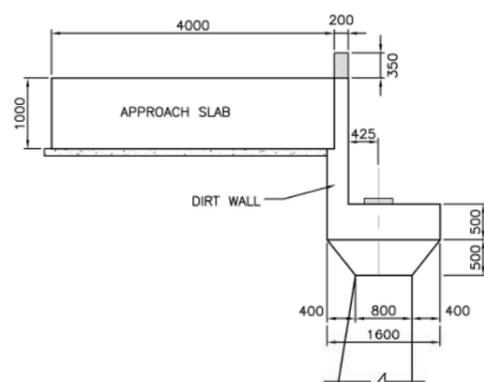
CONSULTING Engineers Group Ltd.
E-12, Maji Colony, Malviya Agar Jaipur-17
Tel: +91-141-2520699, 2521899, 2520556
Fax: 2521899, E-Mail: ceg@cegindia.com



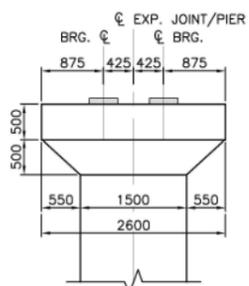
DETAIL OF ABUTMENT - A1
(SCALE 1:100)



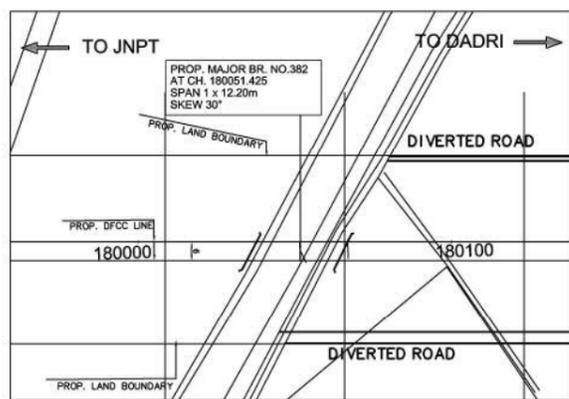
DETAIL OF PIER - P1
(SCALE 1:100)



DETAIL - A
(SCALE 1:50)



DETAIL - B
(SCALE 1:50)



KEY PLAN

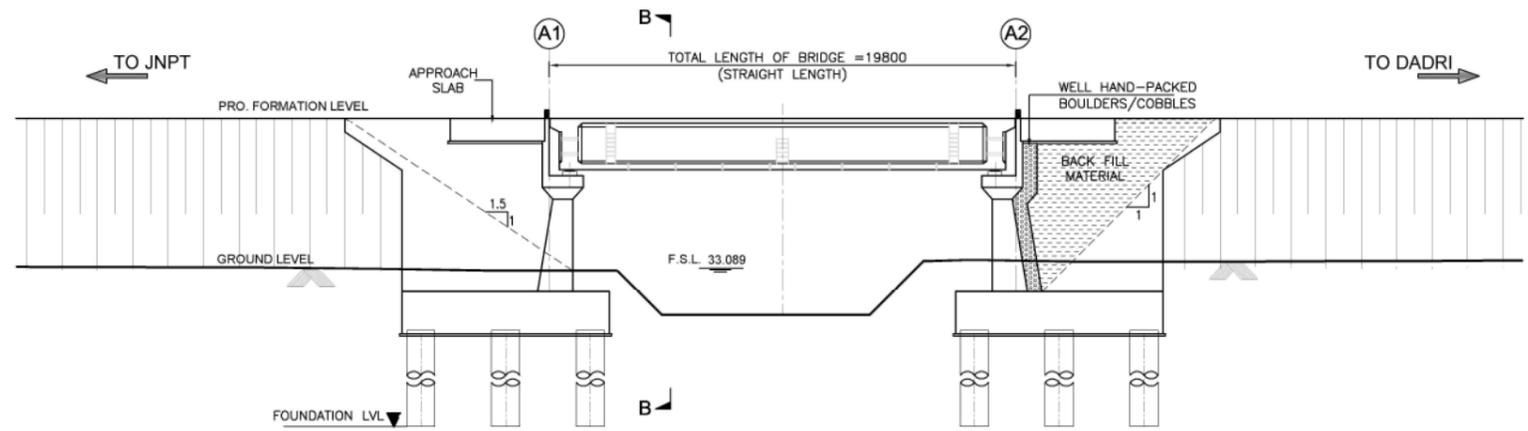
Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder



THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

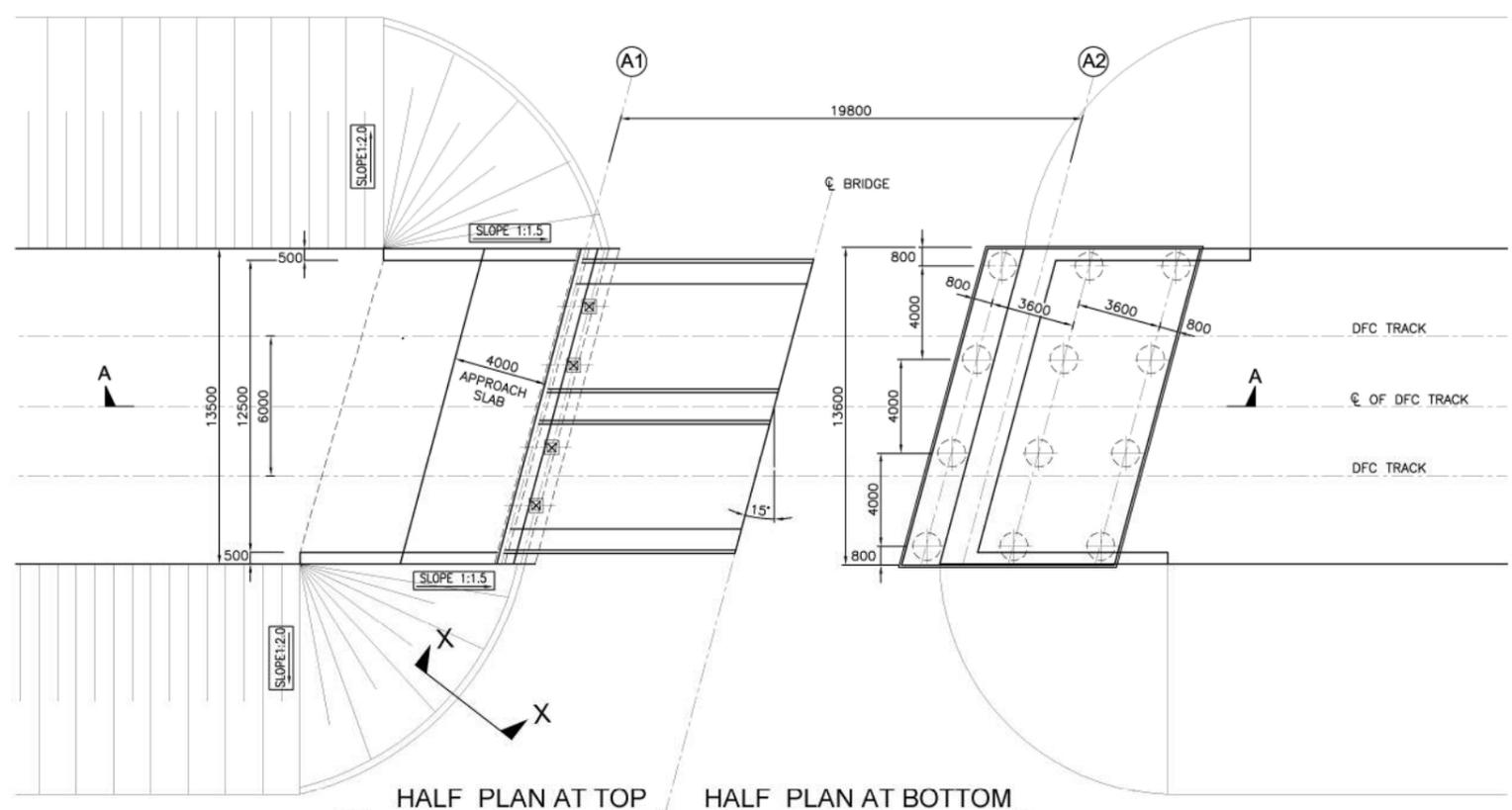
CONSULTING Engineers Group Ltd.
E-12, Maji Colony, Malviya Nagar, Jaipur-17
Tel: +91-141-2520899, 2521899, 2520556
Fax: 2521899, E-Mail: ceg@cegindia.com

REFERENCE DRAWINGS:	
DRAWING NO.	SUBJECT
CEG/SACHIN/HADIADI/PLAN-PROFILE/S-56	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET. MANAGER / DFCC	GGM/Engrg H
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.	
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)	
CLIENT: -	
TITLE: - SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 382/CART TRACK & DRAIN CROSSING, 1X12.20m. PSC BOX GIRDER AT KM (REV CH. 180051.425) GENERAL ARRANGEMENT DRAWING (SHEET: 3 OF 3)	
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:24pm
PROJECT NO: 12005	REV. No.
	APPROVED BY: G.U.R.
	CEG/SACHIN/HADIADI/GAD-BRIDGE/S-5382



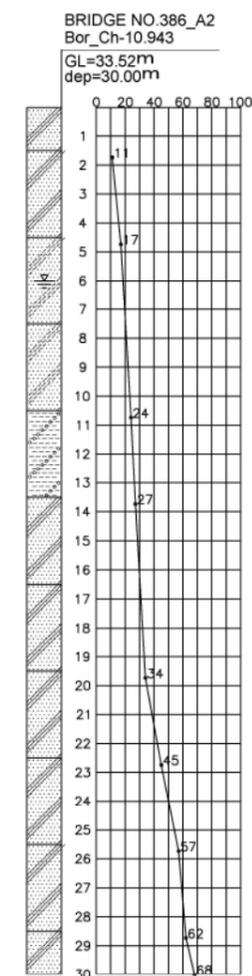
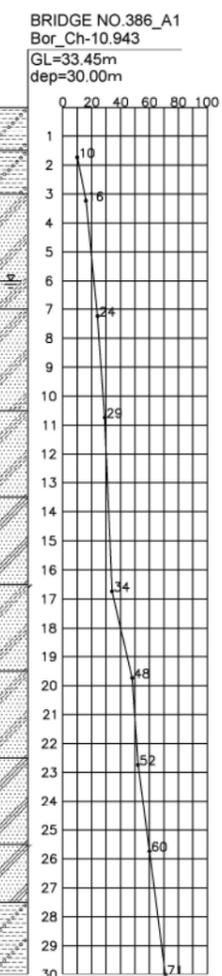
FORMATION LEVEL	40.259	40.255	40.239
GROUND LEVEL	33.280	33.389	33.600
CHAINAGE	180586.34	180597.090	180626.34

SECTIONAL ELEVATION
(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:**
- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
 - ALL DIMENSIONS ARE TO BE READ AND NOT MEASURED.
 - ALL DIMENSIONS AND LEVEL SHOULD BE VERIFIED & RECONCILED BEFORE EXECUTION.
 - 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.
 - ALL DIMENSIONS SHALL BE VERIFIED WITH RESPECT TO EXISTING IR BRIDGES ON THE PARALLEL ALIGNMENT AND RECONCILED BEFORE EXECUTION.
 - FORMATION LEVEL SHOWN IN GAD IS AS PER PROPOSED LONGITUDINAL SECTION OF THE ALIGNMENT AND MAY CHANGE DURING DEVELOPMENT OF DETAILED DESIGN STAGE.
 - LENGTH OF RETURN WALL / WING WALL / TOE WALL / PITCHING ETC. IS TO BE DECIDED AS PER THE SITE CONDITION.
 - GROUND PROFILE SHOULD BE VERIFIED BEFORE EXECUTION.
- SUPERSTRUCTURE & SUBSTRUCTURE**
- THE BRIDGE SHALL BE DESIGNED AS PER DFCC LOADING (25.5T AXLE LOAD) BRIDGE RULE, ISSUED BY RDSO. (WITH LATEST CORRECTION SLIP).
 - THE BRIDGE SHALL BE DESIGNED AS PER THE SEISMIC ZONE FOR THE AREA.
 - BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 - WEEP HOLES SHALL BE PROVIDED IN RETURN WALL & ABUTMENT.
 - THE FOUNDATION BOLTS SHALL BE PROVIDED IN CONSULTATION WITH THE CONTRACTOR OF EMP-4.
 - RAILING EXPANSION JOINTS, BEARING, WEARING COAT, FOOTPATH, SERVICE DUCT, DRAINAGE SHALL BE PROVIDED AS PER SPECIFICATION.
 - FOR INSPECTION OF BEARING / SUPERSTRUCTURE, SUITABLE ARRANGEMENT SHALL BE PROVIDED.
 - FOR CHANGING OF BEARING SUITABLE ARRANGEMENT SHALL BE PROVIDED.
- GEO-TECHNICAL**
- FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT.
 - GEO-TECHNICAL BORE HOLE DATA REFERRED IN GAD IS INDICATIVE ONLY.
 - DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE.

TABLE-1

DETAILS	PROPOSED DFC
PACKAGE	3
SECTOR	5
BRIDGE NO.	386
CHAINAGE	180597.090
SPAN CONFIGURATION	1X18.3m
OVERALL SPAN (mm)	19750
CLEAR SPAN (mm)	18300
TYPE OF STRUCTURE	POST TENSIONED BOX GIRDER BRIDGE
DEPTH OF SUPERSTRUCTURE (mm)	2280
TYPE OF CROSSING	CANAL & CART TRACK
BRIDGE (STRAIGHT/CURVE/SKEW)	SKEW 15°
FORMATION LEVEL R.L. (METER)	40.255
BED LEVEL R.L. (METER)	31.889
F.S.L. R.L. (METER)	33.089
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	-
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH SUITABLE RESTRAINTS)	FIX - FREE

REFERENCE DRAWINGS:

DRAWING NO.	SUBJECT
CEG/SACHIN-NADIAD/PLAN-PROFILE/S-51	L-SECTION

APPROVED

MANAGER / DFC

ASST. MANAGER / DFC

STANDARD OF WORKS FOR THE ADOPTION OF THE LOAD.

PROJECT: WESTERN DEVELOPMENT CORRIDOR BETWEEN JAFI AND TATA MUMBAI - DADRI (NEAR DELHI)

CLIENT: DFC

LEGEND:

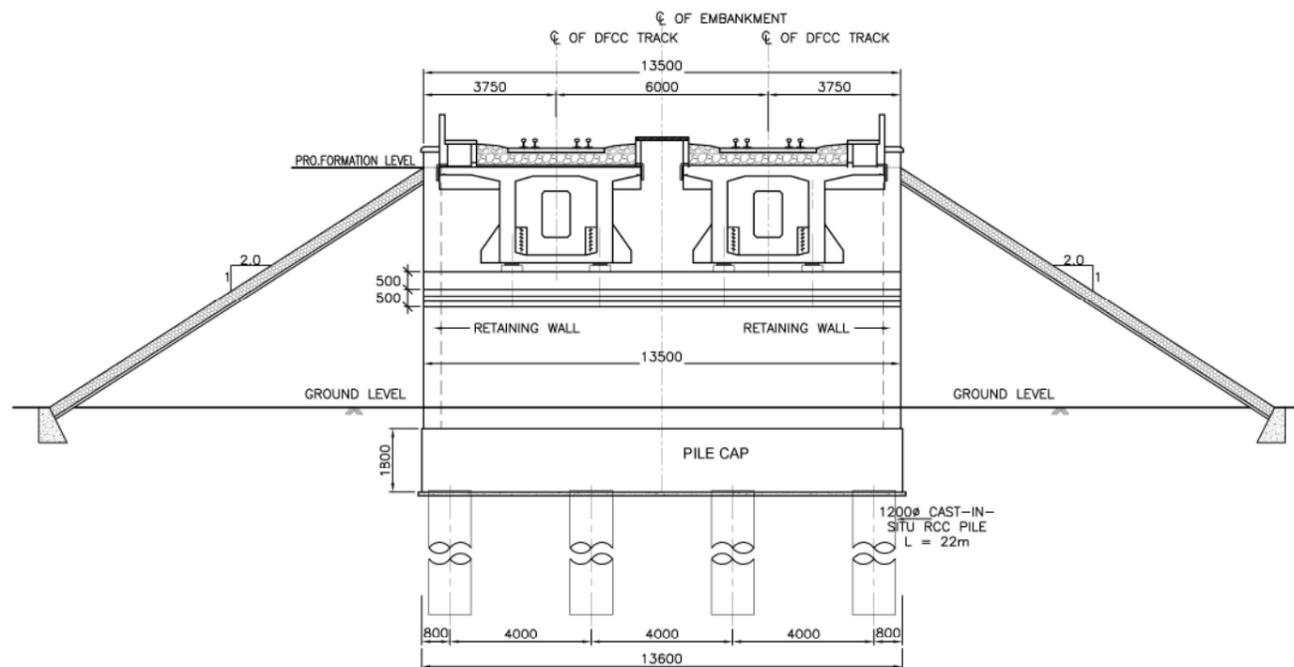
SDR	GW	MH	SP
CI-CH	GP	MI	SP-SM
CL	GP-GM	ML	SW
CL-ML	GM	SC	SW-SM
CI	GM-GC	SM	WR
CH	GW-GM	SM-SC	SR
			HR

THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

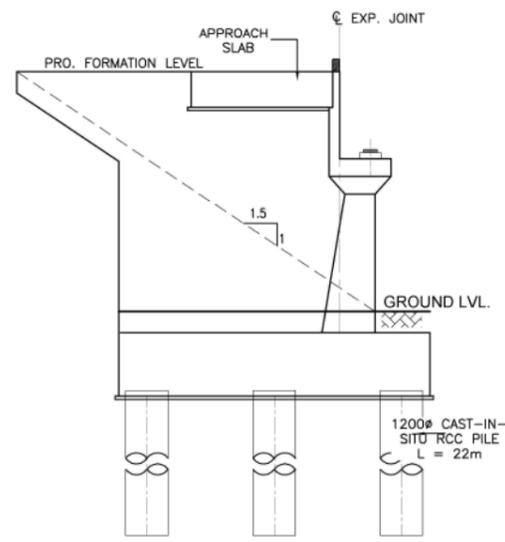
CONSULTING Engineers Group Ltd.
E-12, Moji Colony, Malviya Nagar, Jaipur-17
Tel: +91-141- 2520899, 2521899, 2520556
Fax: 2521899, E-Mail: ceg@cegindia.com

TITLE: SECTION 05 (VASAD-PALEJ) CONSTRUCTION OF BRIDGE NO. 386 (CANAL & CART TRACK CROSSING), 1X18.30. PSC BOX GIRDER AT CH.180597.090. (GENERAL ARRANGEMENT DRAWING) (SHEET 1 OF 3)

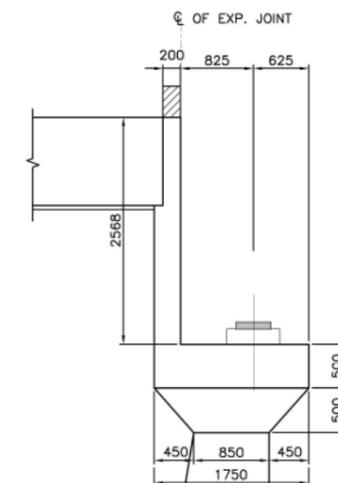
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: April 18, 2010	REV. No. R1
PROJECT NO. 12008	DRG NO. CEG/SACHIN-NADIAD/ GAD-BRIDGE/S-5386	



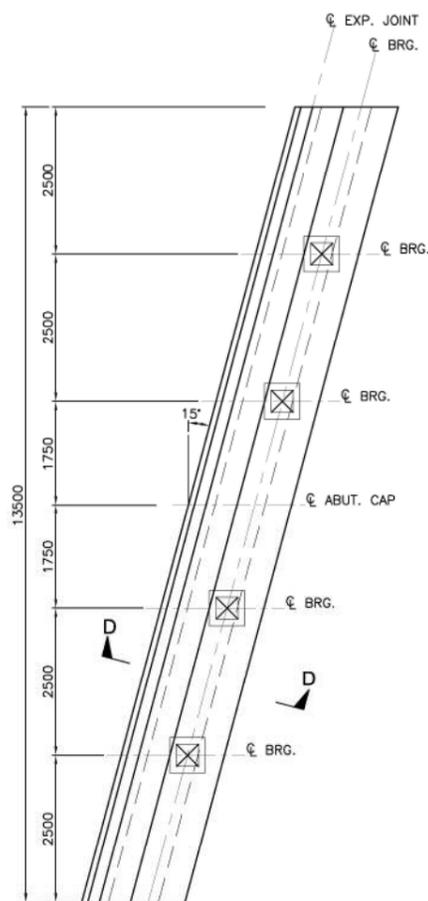
SECTION B-B
(SCALE 1:100)



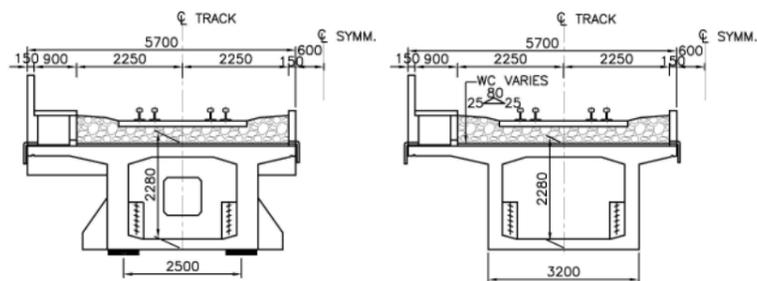
DETAIL OF ABUTMENT - A1
(SCALE 1:100)



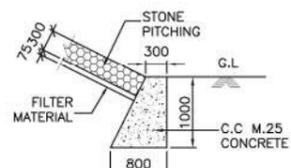
SECTION D-D
(SCALE 1:40)



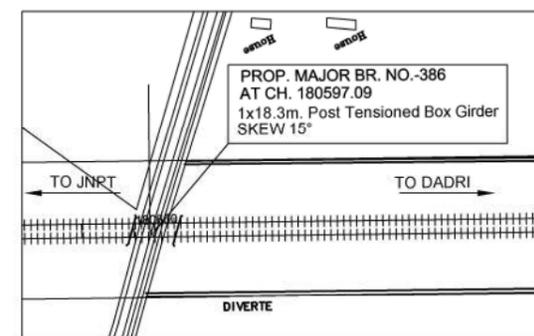
PLAN AT ABUTMENT CAP LVL.
(SCALE 1:60)



18.3m (SPAN POST TENSION BOX GIRDER)
(SCALE 1:75)



SECTION X-X
(SCALE 1:50)



KEY-PLAN

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

REFERENCE DRAWINGS.	
DRAWING NO.	SUBJECT.
CEG/SACHIN-NADIADI/PLAN-PROFILES-S1	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / D.P.O.	
MANAGER / D.P.O.	CPM/DFCC
ASST. MANAGER / D.P.O.	CPM/Engg-I
STANDARD OF CONSTRUCTION	GENERAL
PROJECT	
WESTERN DEVELOPED FREIGHT CORRIDOR BETWEEN	
JAFI (NADIADI) MUMBAI - DADRI (NEAR DELHI)	
CLIENT:	
DFCC	

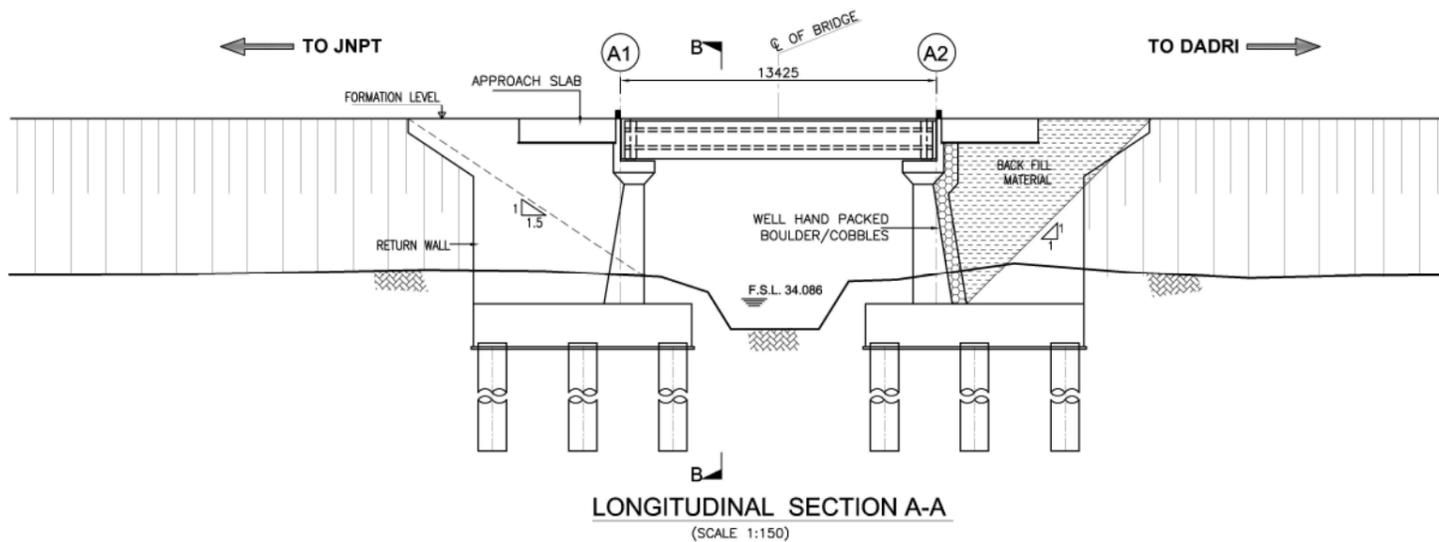


TITLE - SECTION 05 (VASAD-PALEJ) CONSTRUCTION OF BRIDGE NO. 386 (CANAL & CART TRACK CROSSING), 1X18.30. PSC BOX GIRDER AT CH.180597.090. (GENERAL ARRANGEMENT DRAWING) (SHEET 2 OF 3)

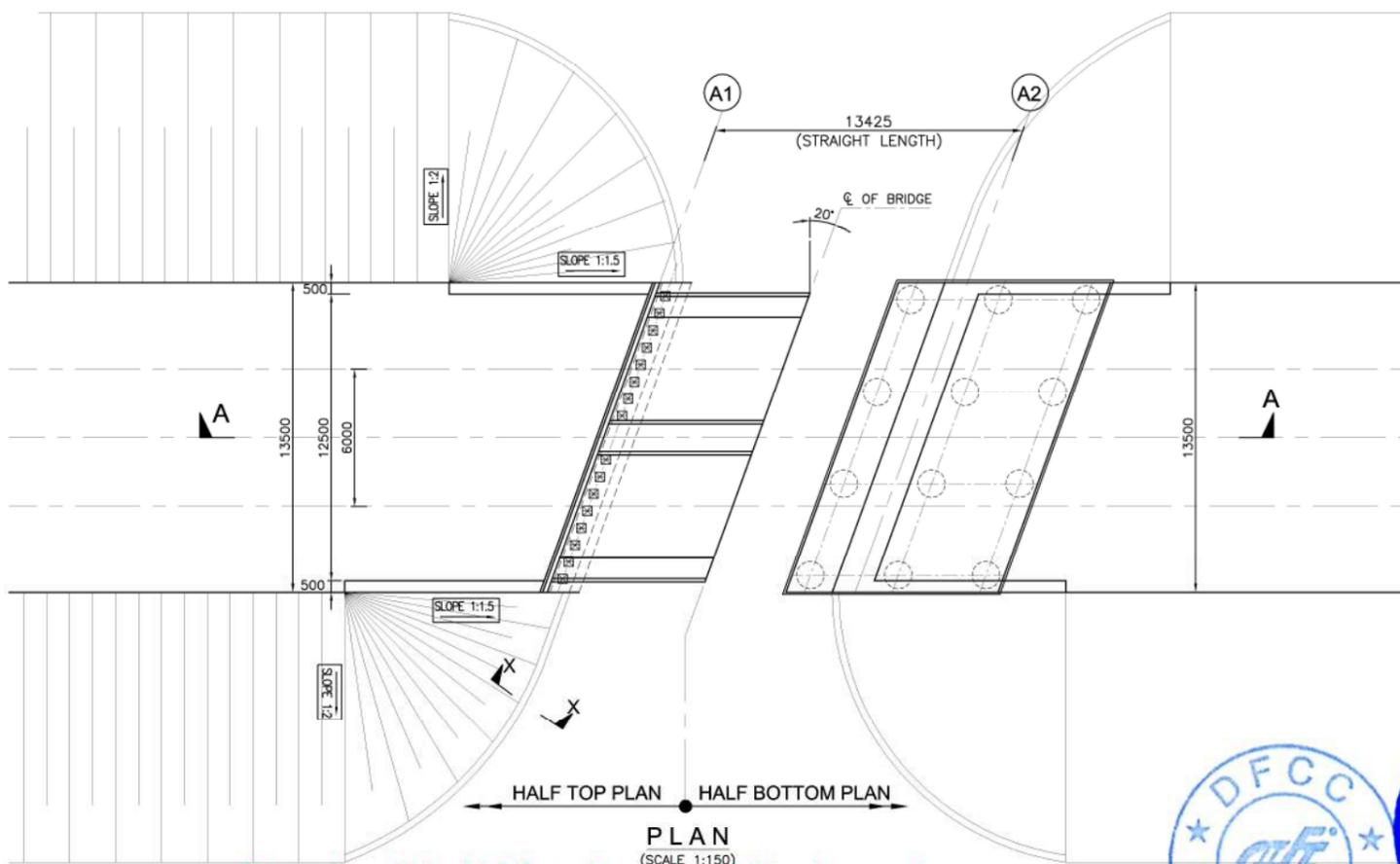
THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

CONSULTING Engineers Group Ltd. E-12, Moji Colony, Malviya Nagar Jaipur-17 Tel: +91-141- 2520899, 2521899, 2520556 Fax: 2521899, E-Mail:ceg@ceginia.com

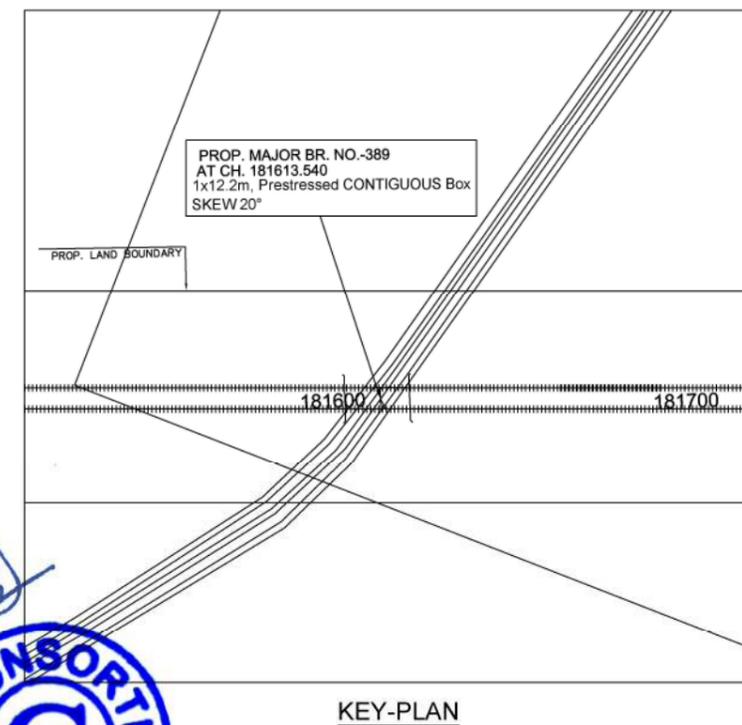
DRAWN BY : R.K.Y.	CHECKED BY : V.K.S.	APPROVED BY : G.U.R.
SCALE : AS SHOWN	DATE : Apr 18, 2010	REV. No. R1
PROJECT NO. 12008	DRG NO. CEG/SACHIN-NADIADI/GAD-BRIDGE-IS-5286	



FORMATION LEVEL :	40.762	40.773	40.774	40.777	40.787	40.785
GROUND LEVEL :	34.130	34.287	34.300	34.386	34.632	34.630
CHAINAGE :	181588.300	181606.828	181608.340	181613.540	181620.252	181628.340



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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 DFCC 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 PROVIDED IN RETURN WALL & ABUTMENT.
- 5) JOE 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.
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TABLE-1

DETAILS	PROPOSED DFC
PACKAGE	3
SECTOR	5
BRIDGE NO.	389
CHAINAGE	181613.540
SPAN CONFIGURATION (C/C) OF PIER	1X12.2m
OVERALL SPAN (mm)	13375
EFFECTIVE SPAN (mm)	12575
CLEAR SPAN (mm)	12200
TYPE OF STRUCTURE	PRESTRESSED CONTIGUOUS BOX
DEPTH OF SUPERSTRUCTURE (mm)	1780
TYPE OF CROSSING	CANAL CART TRACK
BRIDGE (STRAIGHT/CURVE/SKEW)	SKEW - 20°
FORMATION LEVEL R.L. (METER)	40.777
BED LEVEL R.L. (METER)	34.300
F.S.L. R.L. (METER)	34.086
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	-
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH - SUITABLE RESTRAINTS)	FIX - FREE

REFERENCE DRAWINGS:

DRAWING NO	SUBJECT
CEG/SACHIN-NADIADI/PLAN-PROFILE/S-99	L-SECTION

APPROVED

DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET, MANAGER / DFCC	GGM(Engg.)

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.

PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)



TITLE:- SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 389, (1X12.20m) PRESTRESSED CONTIGUOUS BOX AT (REV CH. 181613.540) GENERAL ARRANGEMENT DRAWING (SHEET - 1 OF 3)

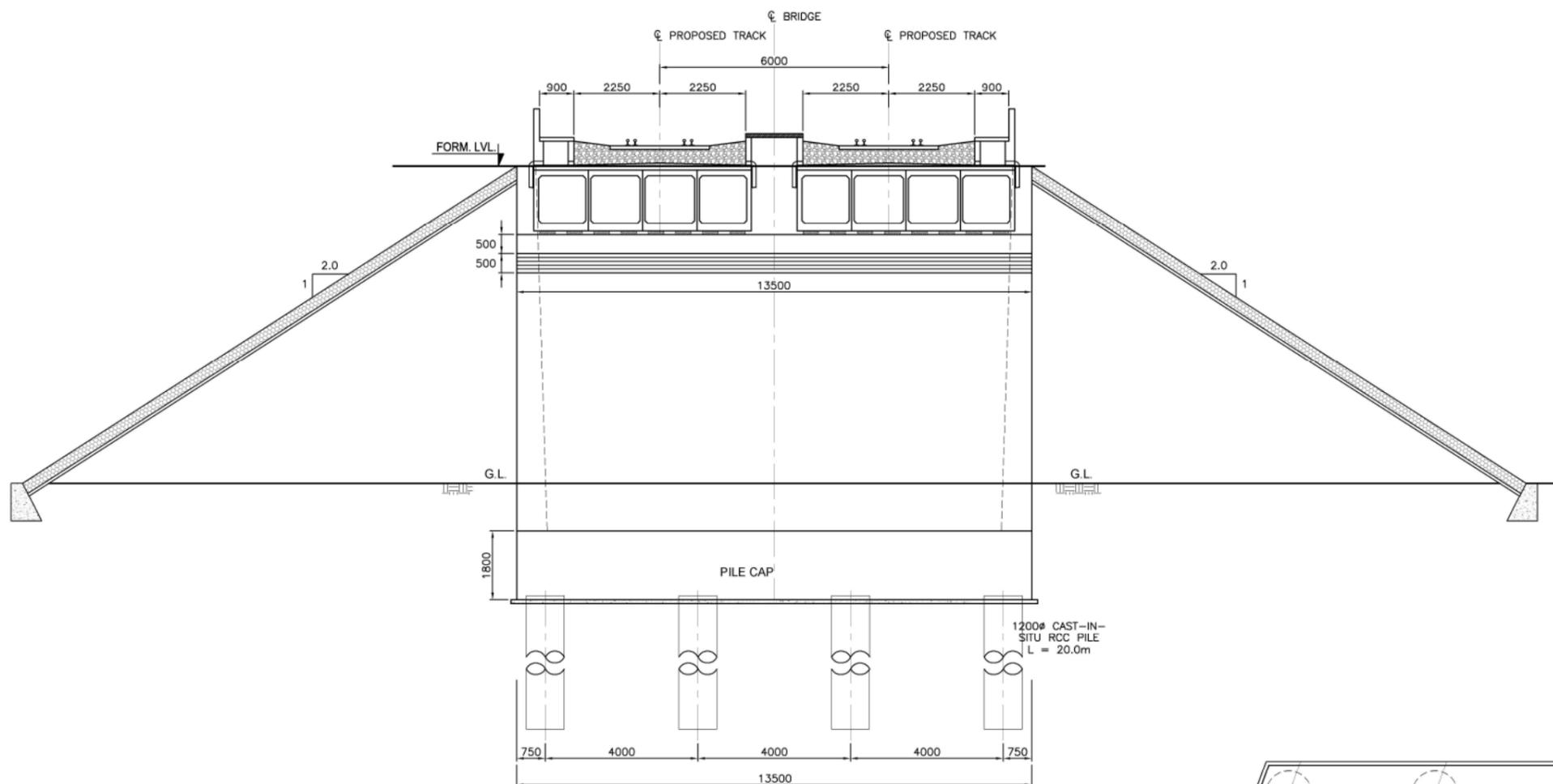
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:28pm	REV. No.
PROJECT NO. 12008	DRG NO.	CEG/SACHIN-NADIADI/GAD-BRIDGE/S-5389



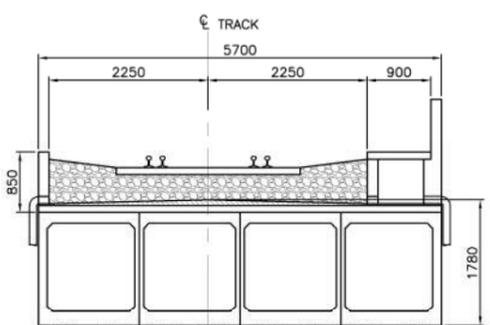
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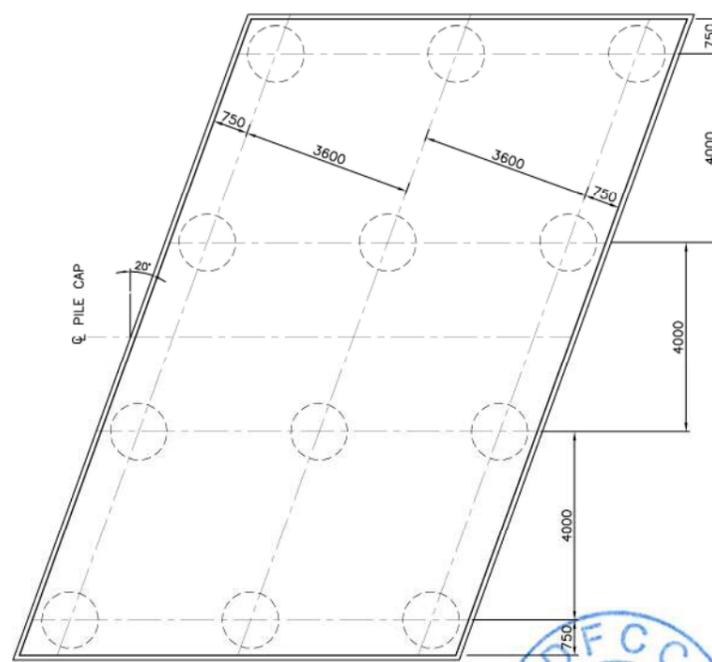
CONSULTING Engineers Group Ltd.
E-12, Malviya Colony, Malviya Agar Jaipur-17
Tel: +91-141- 2520899, 2521899, 2520556
Fax: 2521899, E-Mail: ceg@cegindia.com



SECTION B-B
(SCALE 1:75)



12.20m (TYP. CROSS SECTION FOR
PRESTRESSED CONTIGUOUS BOX)
(SCALE 1:50)



PILE CAP ABUTMENT PLAN
(SCALE 1:75)



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

REFERENCE DRAWINGS:	
DRAWING NO	SUBJECT
CEGISACHIN-NADIADI/PLAN-PROFILE/5-99	L-SECTION

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET MANAGER / DFCC	GGM(Engg.)

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.

PROJECT: -
WESTERN DEDICATED FREIGHT CORRIDOR BETWEEN
UNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)



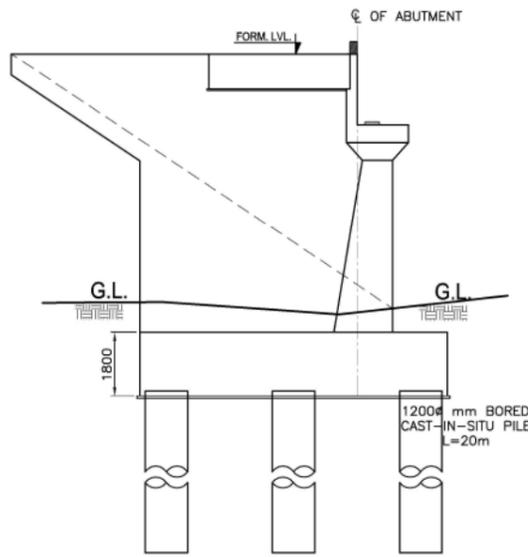
TITLE:- SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION
OF BRIDGE NO. 389, (1X12.20m) PRESTRESSED
CONTIGUOUS BOX AT (REV CH. 181613.540)
GENERAL ARRANGEMENT DRAWING (SHEET 2 OF 3)

THIS DRAWING WAS ORIGINALLY PREPARED BY C E G
(CONSULTING Engineers Group Ltd.) CONSULTANT AND
REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

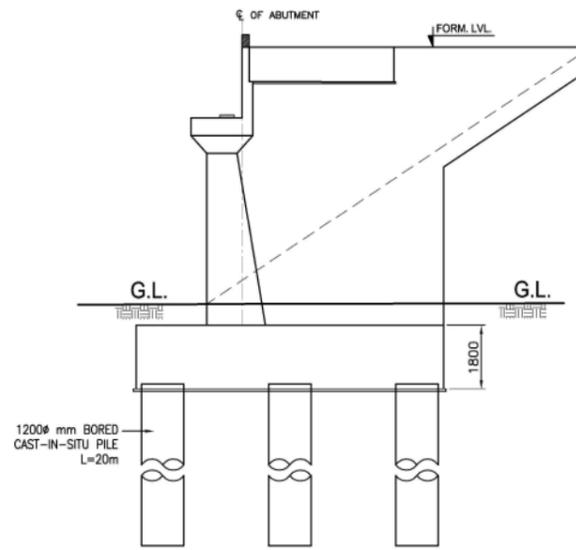
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CONSULTING
Engineers Group Ltd.
E-12, Moji Colony, Malviya Agar Jaipur-17
Tel: +91-141-2520899, 2521899, 2520556
Fax: 2521899, E-Mail: ceg@cegindia.com

DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:28pm	REV. No.
PROJECT NO. 12008	DRG NO.:	CEGISACHIN-NADIADI/GAD-BRIDGE/S-5389



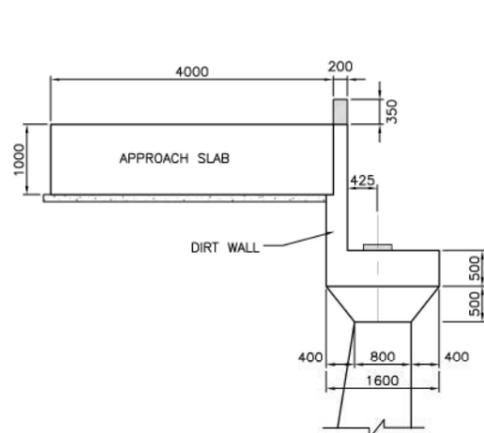
ABUTMENT DETAIL (A1)
(SCALE 1:100)



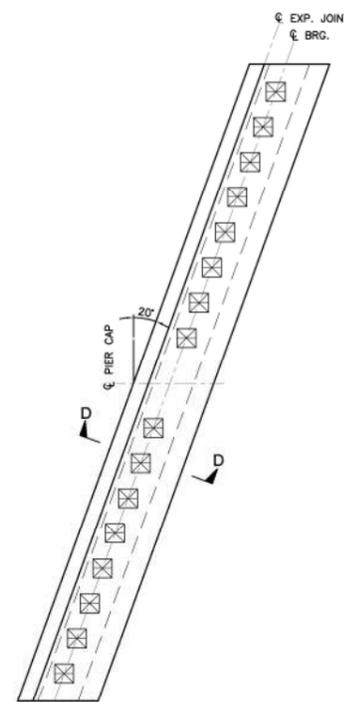
ABUTMENT DETAIL (A2)
(SCALE 1:100)

LEGEND:

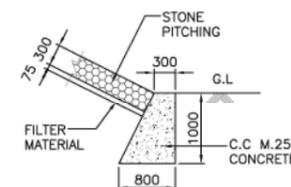
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CI-CH	MI	GP	SP-SM
CL	ML	GP-GM	SW
CL-ML	SC	GM	SW-SM
CI	SM	GM-GC	WR
CH	SM-SC	GW-GM	SR
			HR



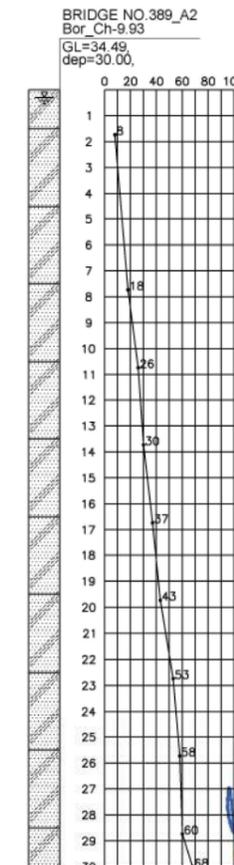
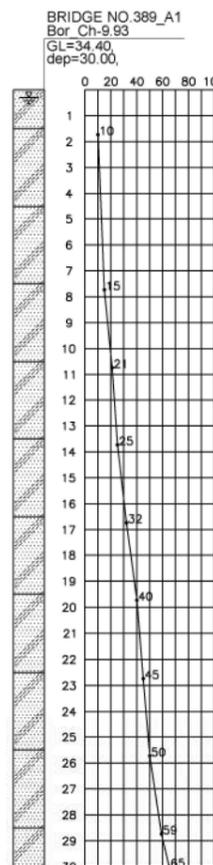
SECTION D-D
(SCALE 1:50)



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



SECTION X-X
(SCALE 1:50)



REFERENCE DRAWINGS:

DRAWING NO	SUBJECT
CEG/SACHIN-NADIADI/PLAN-PROFILE/99	L-SECTION

APPROVED

DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET MANAGER / DFCC	GM(E)engg-H

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.

PROJECT: -
WESTERN DEDICATED FREIGHT CORRIDOR BETWEEN
JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)



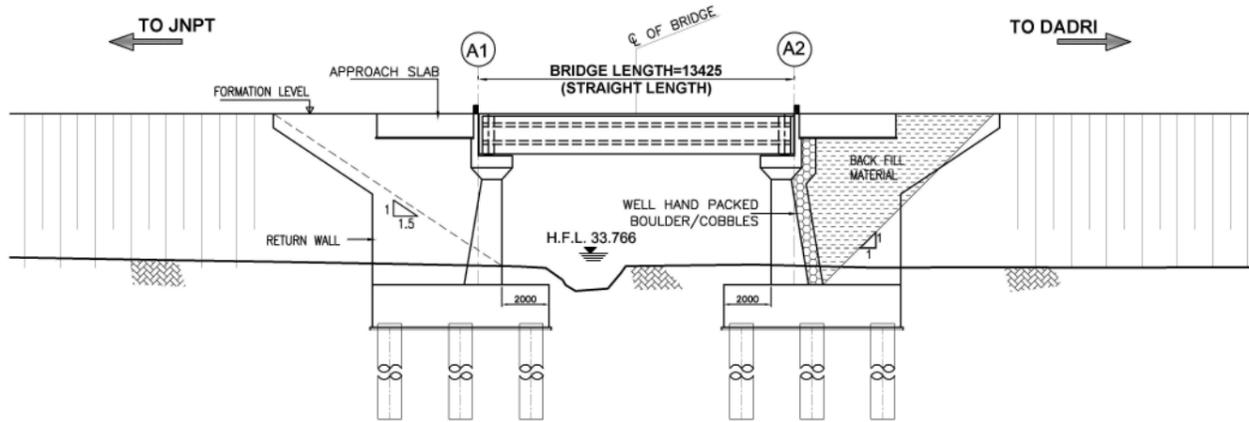
Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

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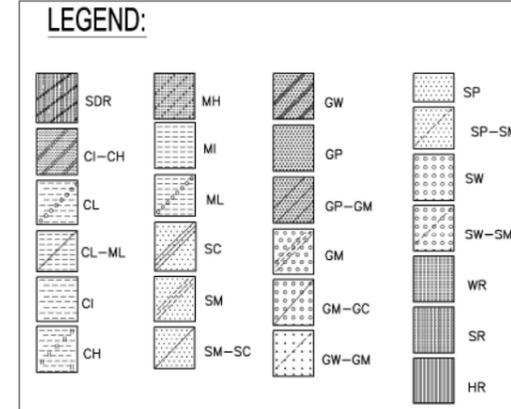
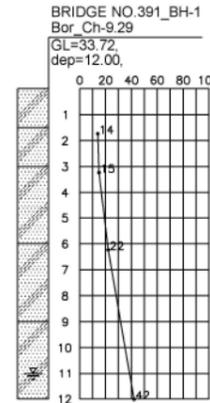
TITLE:- SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 389, (1X12.20m) PRESTRESSED CONTIGUOUS BOX AT (REV CH. 181613.540) GENERAL ARRANGEMENT DRAWING (SHEET - 3 OF 3)

DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:28pm	REV. No.
PROJECT NO. 12008	DRG NO.:	CEG/SACHIN-NADIADI/GAD-BRIDGE/S-5389

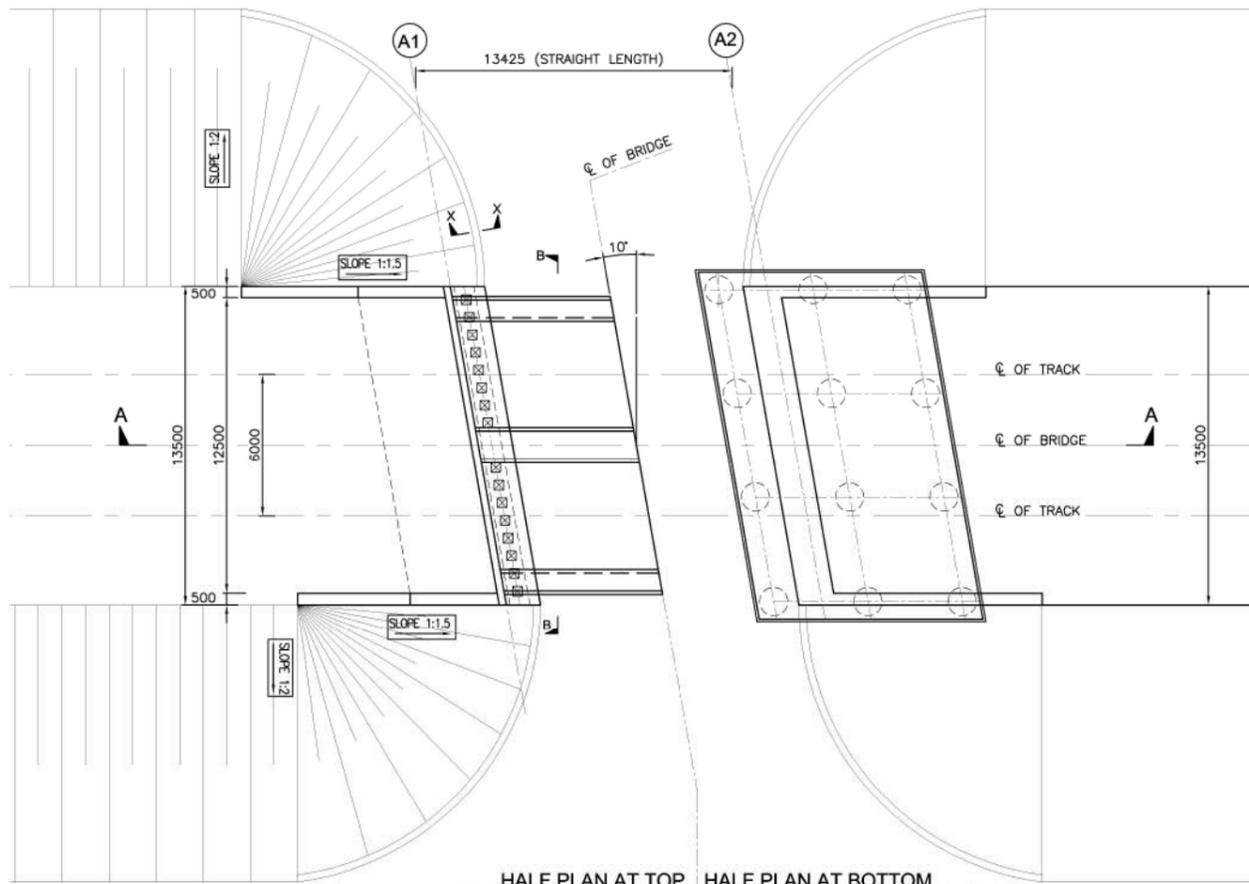


FORMATION LEVEL :	40.198	40.191	40.184
GROUND LEVEL :	33.851	33.766	33.715
CHAINAGE :	182244.870	182251.582	182256.295

LONGITUDINAL SECTION A-A
(SCALE 1:150)

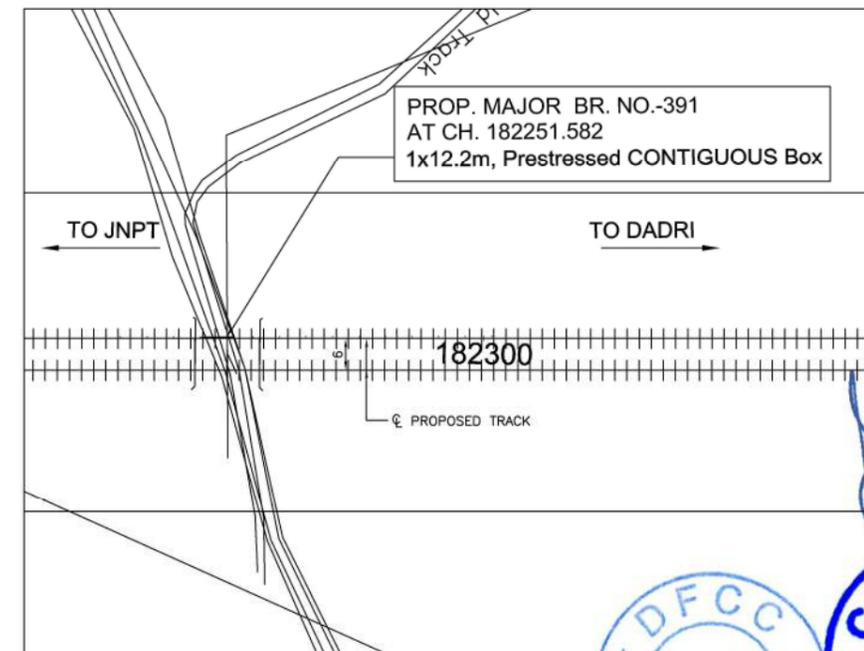


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 - BACK FILL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
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 - FOR CHANGING OF BEARING SUITABLE ARRANGEMENT SHALL BE PROVIDED.
- GEO-TECHNICAL**
- FOR TENDER PURPOSE REFER TO GEOTECHNICAL & HYDROLOGICAL INVESTIGATION REPORT.
 - GEO-TECHNICAL BORE HOLE DATA REFERED IN GAD IS INDICATIVE ONLY.
 - DETAILED GEO-TECHNICAL INVESTIGATION SHALL BE CARRIED OUT DURING DETAILED DESIGN STAGE.



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



KEY-PLAN

TABLE-1	
DETAILS	PROPOSED DFC
PACKAGE	3
SECTOR	5
BRIDGE NO.	391
CHAINAGE	182251.582
SPAN CONFIGURATION (C/C) OF PIER	1X12.2m
OVERALL SPAN (mm)	13375
EFFECTIVE SPAN (mm)	12575
CLEAR SPAN (mm)	12200
TYPE OF STRUCTURE	PRESTRESSED CONTIGUOUS BOX
DEPTH OF SUPERSTRUCTURE (mm)	1780
TYPE OF CROSSING	NALLAH / BT ROAD
BRIDGE (STRAIGHT/CURVE/SKEW)	SKEW - 10°
FORMATION LEVEL R.L. (METER)	40.191
BED LEVEL R.L. (METER)	33.766
H.F.L. R.L. (METER)	32.766
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	-
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH - SUITABLE RESTRAINTS)	FIX - FREE

REFERENCE DRAWINGS:	
DRAWING NO	SUBJECT
CEG/SACHIN-NADIAD/PLAN-PROFILE/S-59	L-SECTION

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET. MANAGER / DFCC	GGM/Engg-I

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)



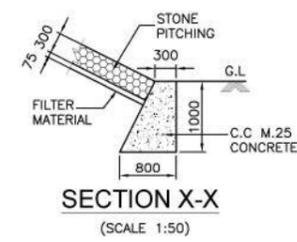
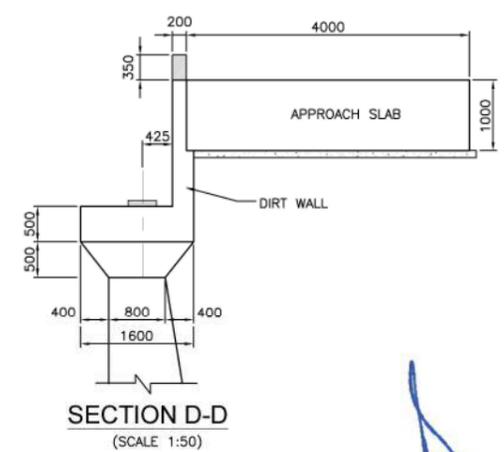
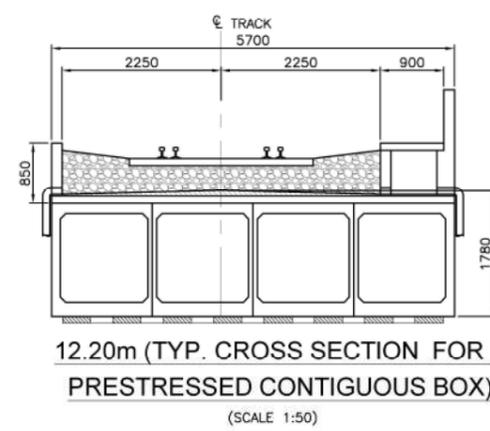
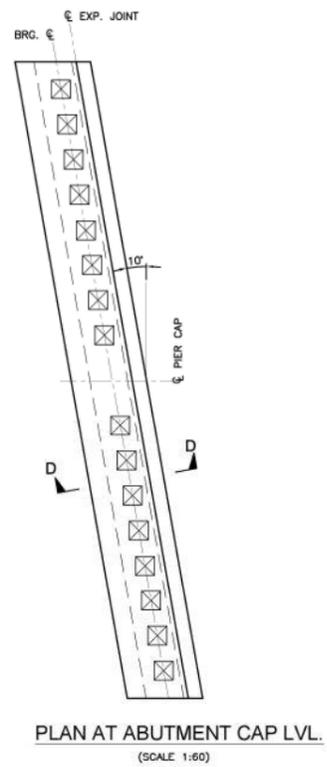
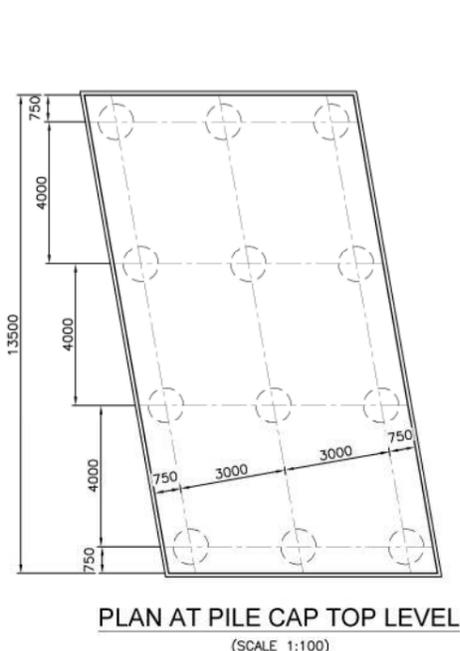
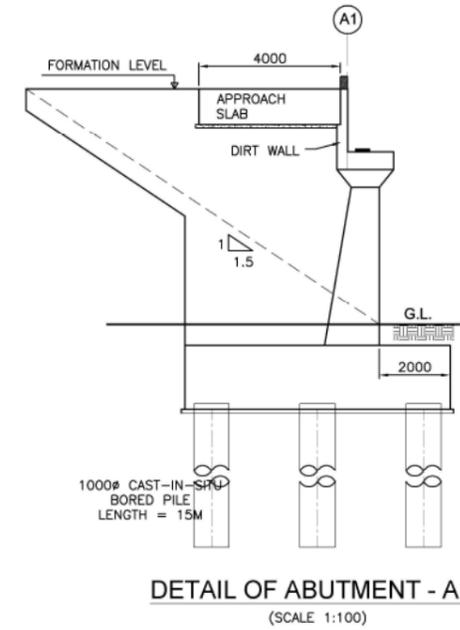
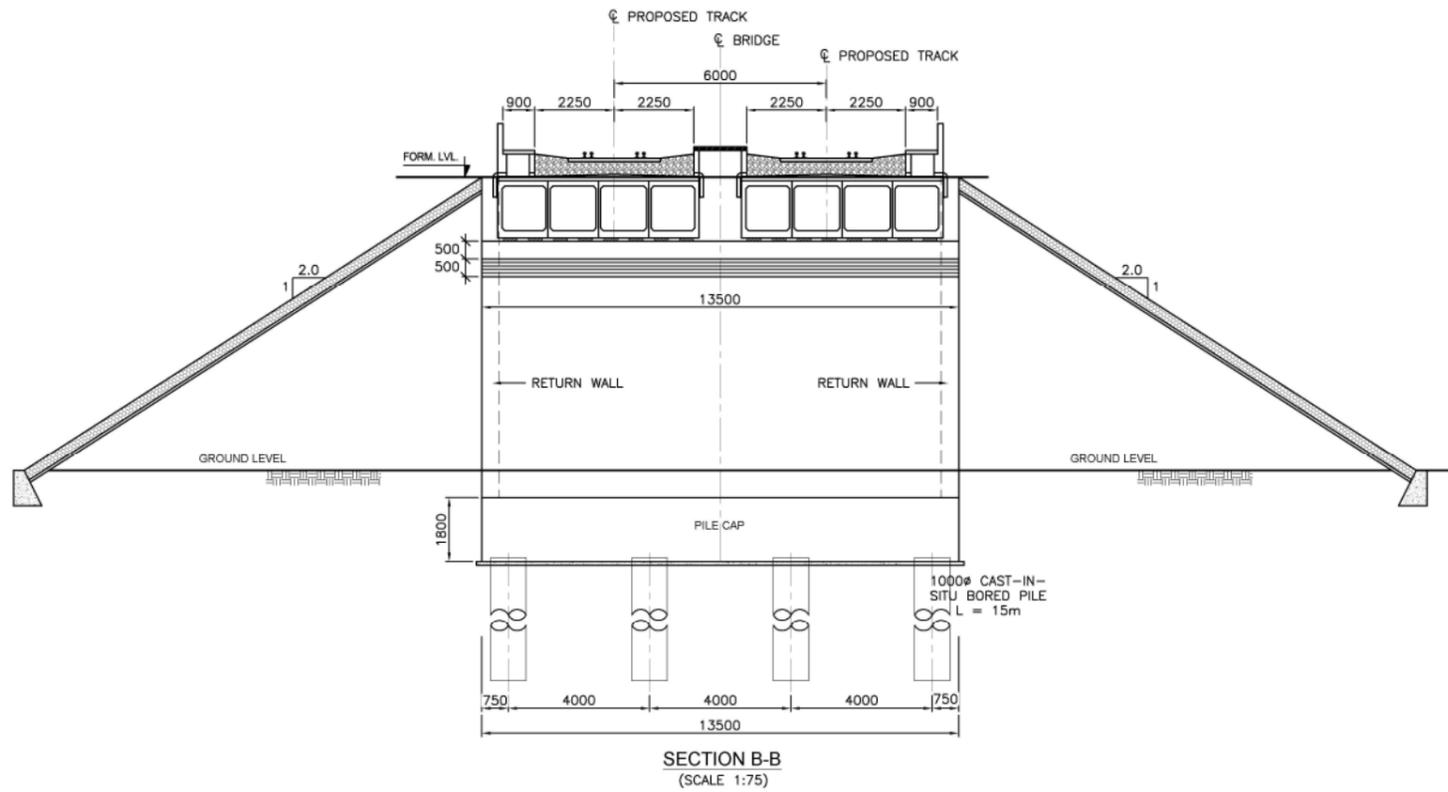
TITLE:- SECTION NO. 05 (VASAD - PALEJ)
CONSTRUCTION OF BRIDGE NO. 391, 1X12.20m.
PRESTRESSED CONTIGUOUS BOX AT (REV CH 182251.582)
GENERAL ARRANGEMENT DRAWING (SHEET: 1 OF 2)

DRAWN BY : R.K.Y.	CHECKED BY : V.K.S.	APPROVED BY : G.U.R.
SCALE :- AS SHOWN	DATE: 01/06/2015 - 12:30pm	REV. No.
PROJECT NO. 12008	DRG NO.:	CEG/SACHIN-NADIAD/ GAD BRIDGE /S-59/1

THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

CONSULTING Engineers Group Ltd.
E-12, Moji Colony, Malviya Agar Jaipur-17
Tel: +91-141- 2520899, 2521899, 2520556
Fax: 2521899, E-Mail:ceg@ceginia.com





REFERENCE DRAWINGS:	
DRAWING NO.	SUBJECT
CEG/SACHIN-NADIAD/PLAN-PROFILE/S-59	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET. MANAGER / DFCC	GGM(Engg.)
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.	
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JUNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)	



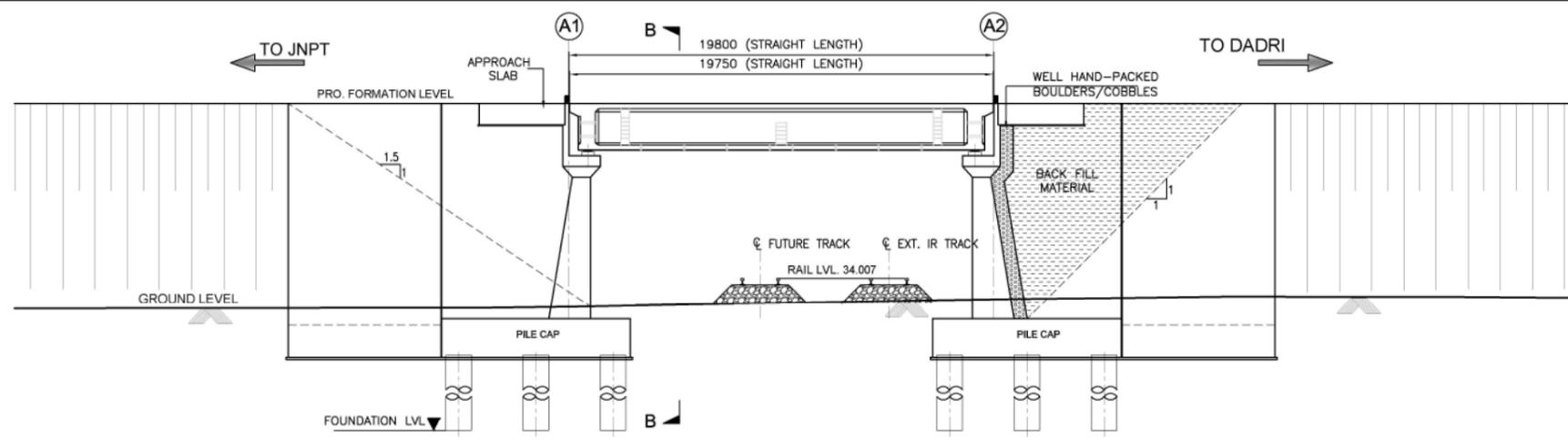
Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOGI CONSORTIUM.

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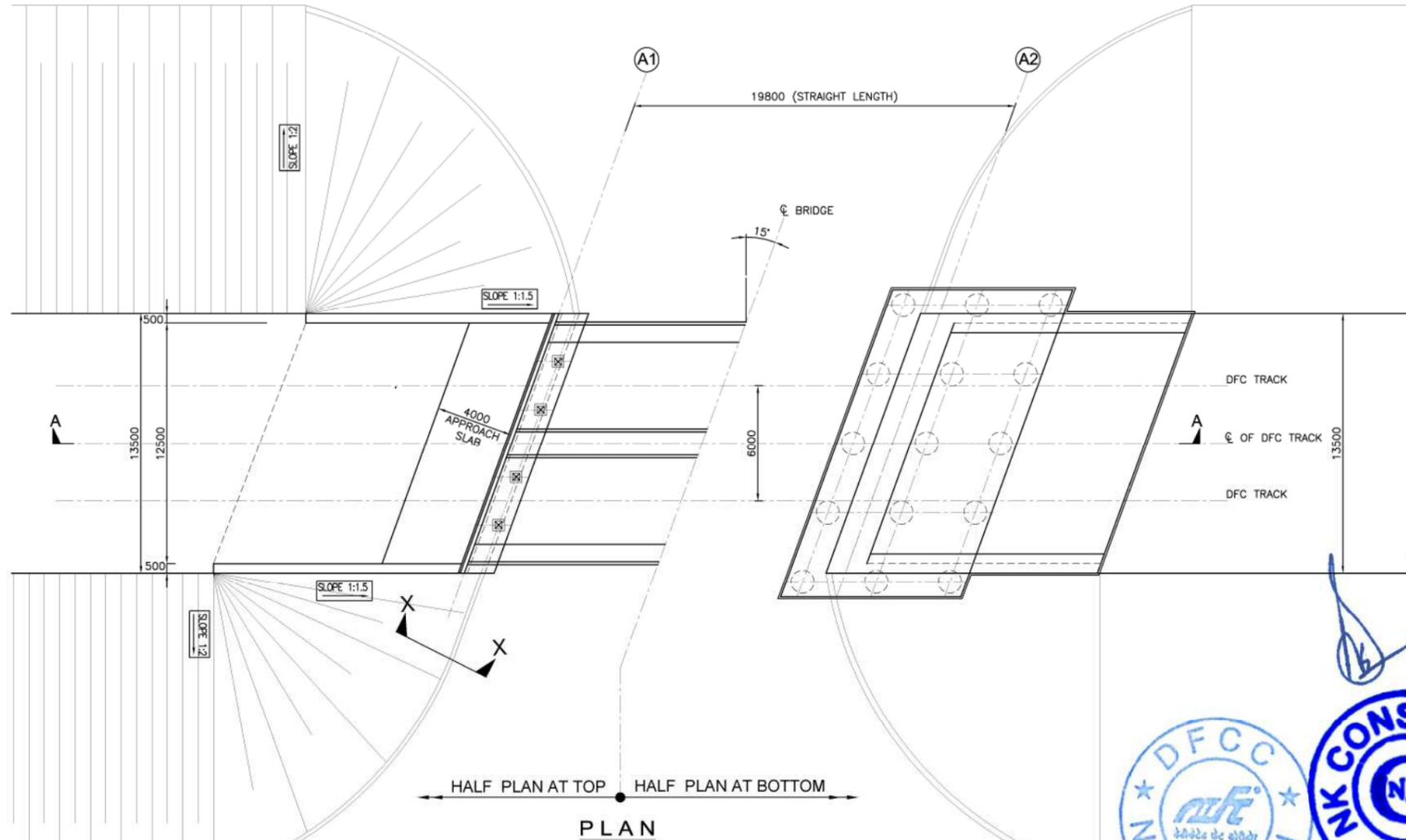
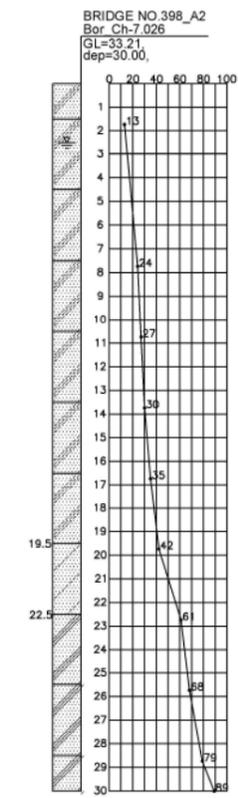
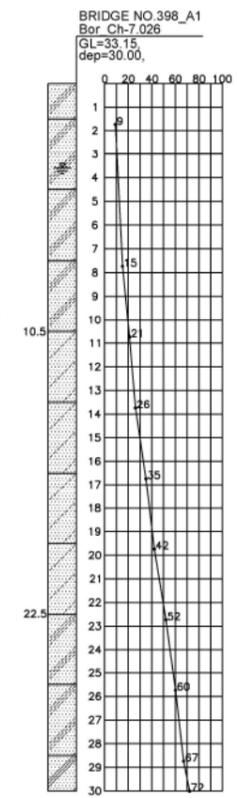
CONSULTING Engineers Group Ltd. E-12, Moji Colony, Malviya Agar Jaipur-17 Tel: +91-141- 2520898, 2521899, 2520556 Fax: 2521899, E-Mail:ceg@ceginia.com

CLIENT: -		
TITLE: - SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 391, 1X12.20m. PRESTRESSED CONTIGUOUS BOX AT (REV CH 182251 582) GENERAL ARRANGEMENT DRAWING (SHEET : 2 OF 2)		
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:30pm	REV. No.
PROJECT NO. 12008	DRG NO.:	CEG/SACHIN-NADIAD/GAD-BRIDGE/S-5291



FORMATION LEVEL	184505.517	184515.417	184525.317
GROUND LEVEL	32.891	32.710	33.064
CHAINAGE	42.523	42.477	42.432

SECTIONAL ELEVATION A-A
SCALE(1:150)

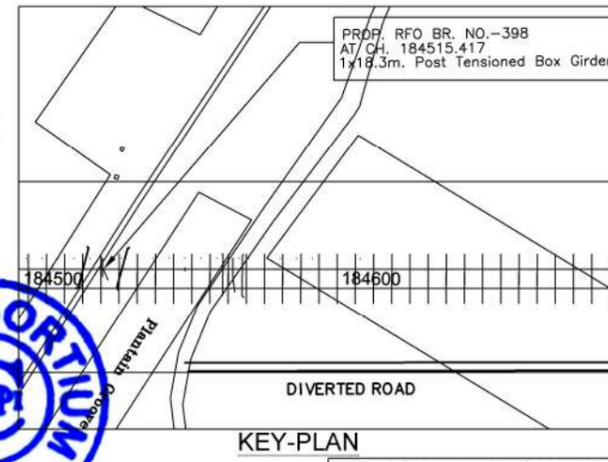


PLAN
SCALE(1:150)

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

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



KEY-PLAN

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

TABLE-1

DETAILS	PROPOSED DFC
PACKAGE	3
SECTOR	5
BRIDGE NO.	398
CHAINAGE	184515.417
SPAN CONFIGURATION	1X18.3m
OVERALL SPAN (mm)	19750
CLEAR SPAN (mm)	18300
TYPE OF STRUCTURE	POST TENSIONED BOX GIRDER
DEPTH OF SUPERSTRUCTURE (mm)	2280
TYPE OF CROSSING	INDIAN RLY TRACK
BRIDGE (STRAIGHT/CURVE/SKEW)	SKEW 15°
FORMATION LEVEL R.L. (METER)	42.477
GROUND LEVEL (METER)	32.710
EXISTING IR RAIL LEVEL	34.007
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	6145
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH SUITABLE RESTRAINTS)	FIX - FREE

REFERENCE DRAWINGS:

DRAWING NO	SUBJECT
CEG/GACHIN-NADIADI/PLAN-PROFILES-S1	L-SECTION

APPROVED

DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASST. MANAGER / DFCC	GGM(Engg.)/I

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.

PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)



CLIENT:-

TITLE:- SECTION 05 (VASAD-PALEJ) CONSTRUCTION OF BRIDGE NO. 398 (RAILWAY TRACK CROSSING), 1X18.30 PSC BOX GIRDER AT KM, REV CH 184515.417. GENERAL ARRANGEMENT DRAWING (SHEET: 1 OF 2)

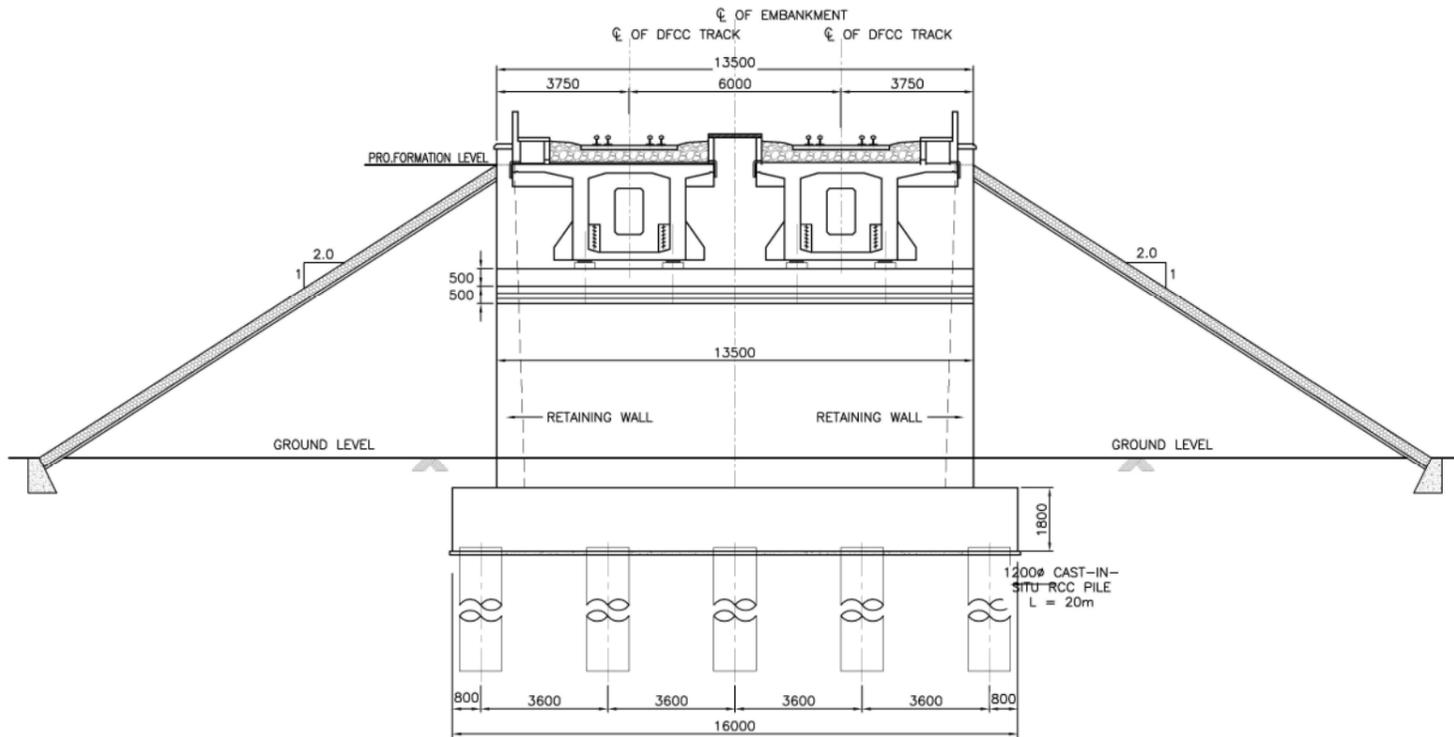
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: April 18, 2010	REV. No.
PROJECT NO. 1/2008	DRG NO. CEG/GACHIN-NADIADI/GAD-BRIDGE-IS-5298	



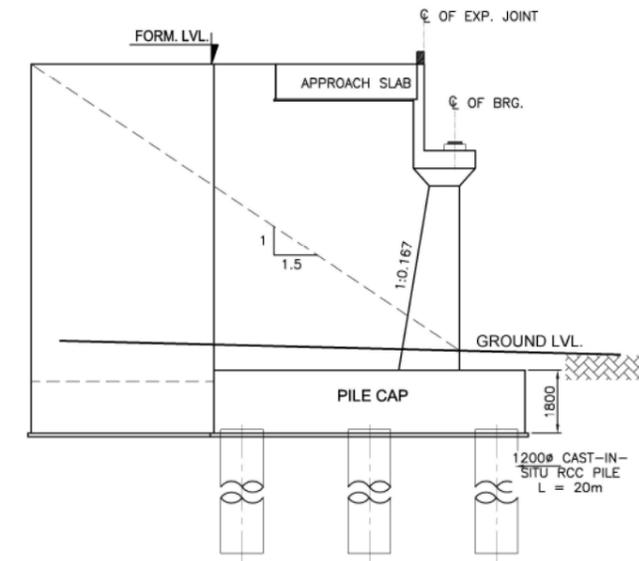
THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

CONSULTING Engineers Group Ltd. E-12, Moji Colony, Malviya Nagar Jaipur-17 Tel: +91-141-2520899, 2521899, 2520556 Fax: 2521899, E-Mail:ceg@ceginia.com

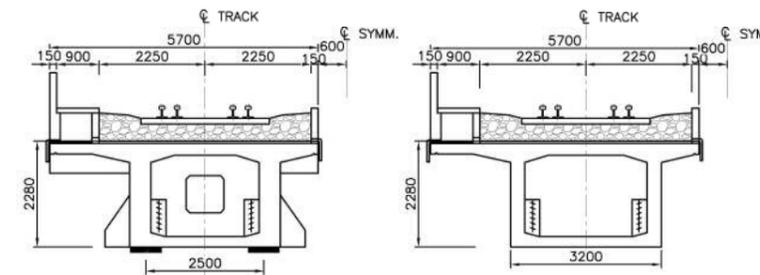
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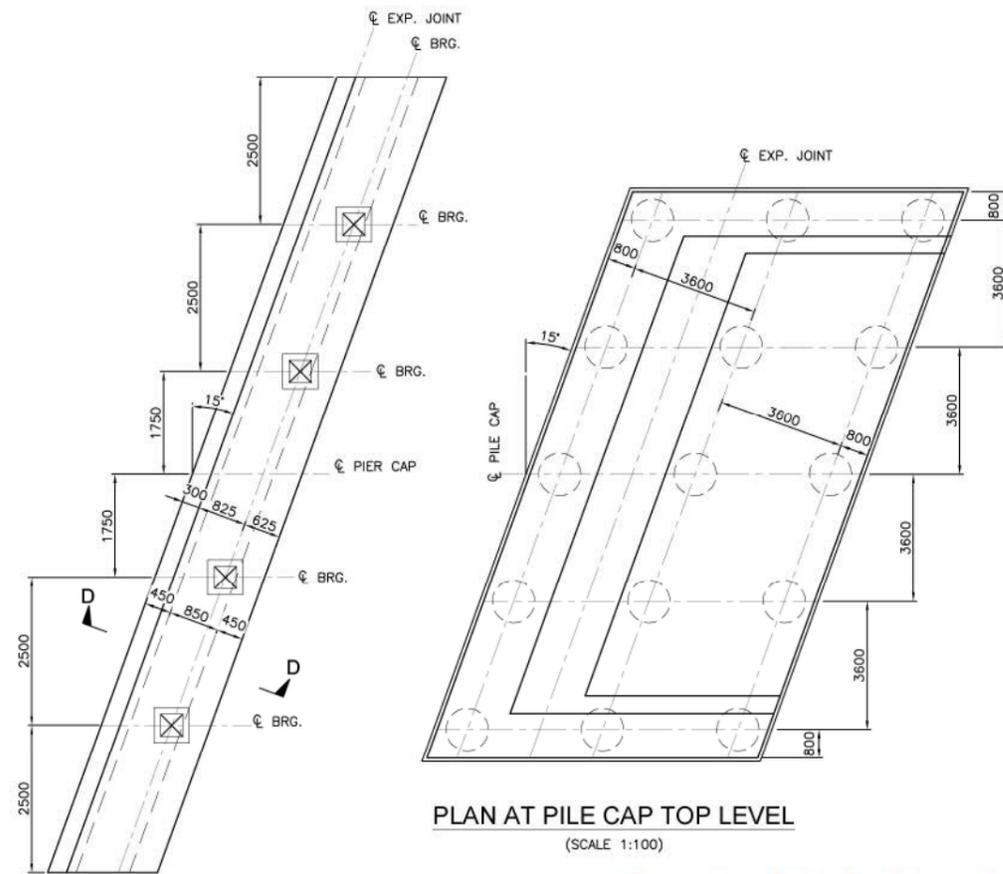
SECTION B - B
(SCALE 1:100)



ABUTMENT DETAIL - A1
(SCALE 1:100)

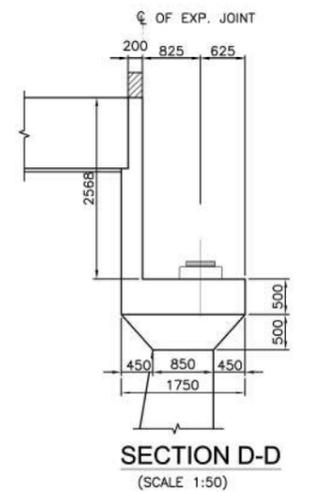


SECTION AT SUPPORT (SCALE 1:75) SECTION AT MID SPAN (SCALE 1:75)
18.3m (SPAN POST TENSION BOX GIRDER)

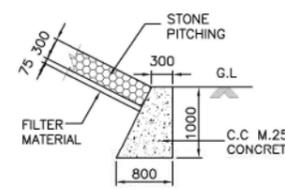


PLAN AT ABUTMENT CAP LVL.
(SCALE 1:60)

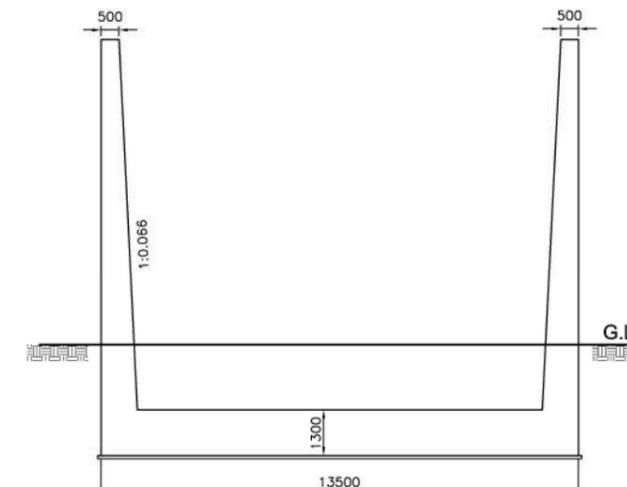
PLAN AT PILE CAP TOP LEVEL
(SCALE 1:100)



SECTION D-D
(SCALE 1:50)



SECTION X-X
(SCALE 1:50)



DETAIL OF RETAINING WALL
(SCALE 1:100)



REFERENCE DRAWINGS:	
DRAWING NO	SUBJECT
CEG/SACHIN-NADIADI/PLAN-PROFILE/S-51	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASST. MANAGER / DFCC	GGM(Engg.)-I
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.	
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)	



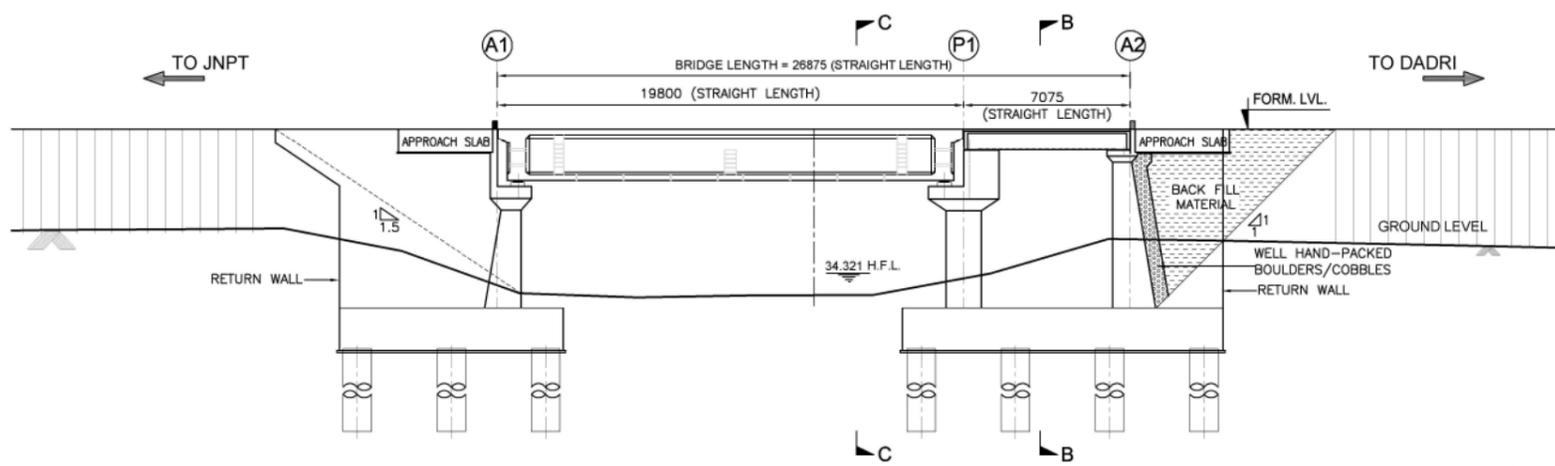
TITLE: - SECTION 05 (VASAD-PALEJ) CONSTRUCTION OF BRIDGE NO. 398 (RAILWAY TRACK CROSSING), 1X18.30 PSC BOX GIRDER AT KM., REV CH.184515.417. GENERAL ARRANGEMENT DRAWING (SHEET: 2 OF 2)

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

THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

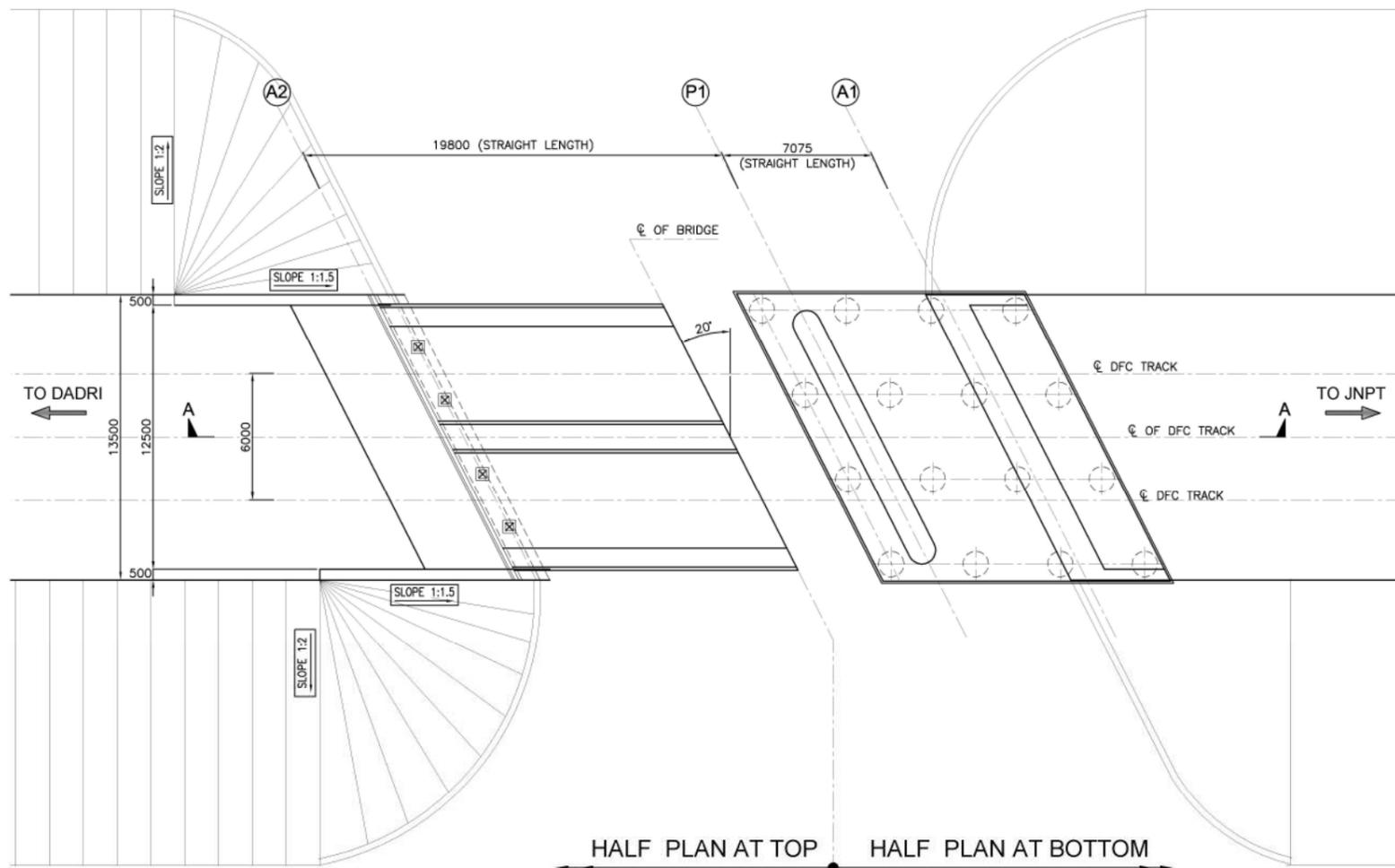
CONSULTING Engineers Group Ltd. E-12, Moji Colony, Malviya Nagar Jaipur-17 Tel: +91-141- 2520899, 2521899, 2520556 Fax: 2521899, E-Mail: ceg@ceginfos.com

DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: - April 18, 2010	REV. No.
PROJECT NO. 1/2008	DRG. NO. CEG/SACHIN-NADIADI/GAD-BRIDGE/S-5298	



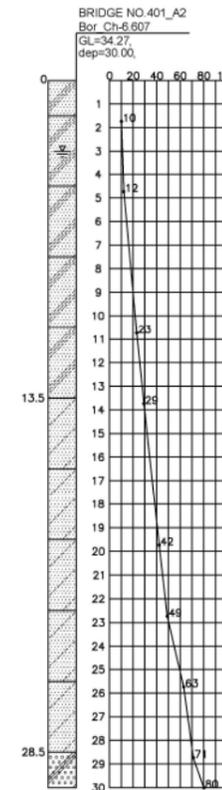
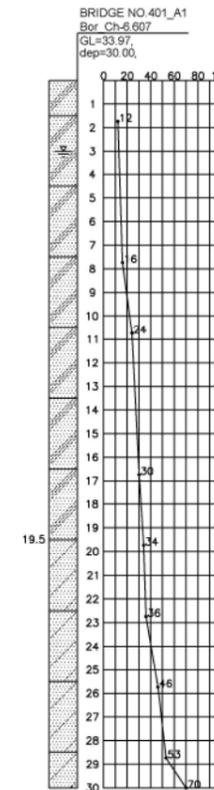
FORMATION LEVEL :			40.552	
GROUND LEVEL :	33.550	33.784	34.000	35.500
CHAINAGE :	184920.470	184933.907	184940.267	184947.345

SECTIONAL ELEVATION A-A
SCALE(1:150)



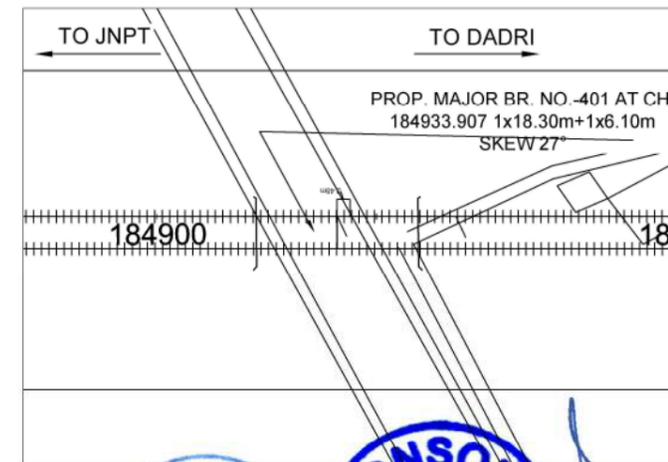
PLAN
SCALE 1:150

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



LEGEND:

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



- 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 IR 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 DFCC 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 PROVIDED IN RETURN WALL & ABUTMENT.
 - 5) JOE 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 GEO-TECHNICAL & 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	5
BRIDGE NO.	401
CHAINAGE	184933.907
SPAN CONFIGURATION	1x18.30m+1x6.10m
OVERALL SPAN (mm)	7050 / 19750
CLEAR SPAN (mm)	6100 / 18300
TYPE OF STRUCTURE	POST TENSIONED BOX GIRDER + PSC SOLID SLAB
DEPTH OF SUPERSTRUCTURE (mm)	880 / 2380
TYPE OF CROSSING	CANAL AND CART TRACK
BRIDGE (STRAIGHT/CURVE/SKEW)	SKEW 27°
FORMATION LEVEL R.L. (METER)	40.552
BED LEVEL R.L. (METER)	33.784
H.F.L. R.L. (METER)	34.321
DESIGN DISCHARGE (Cumec)	-
VERTICAL CLEARANCE MIN. (mm)	3300
TYPE OF FOUNDATION	PILE FOUNDATION
BRIDGE BEARING (ELASTOMER WITH SUITABLE RESTRAINTS)	FIX - FREE

REFERENCE DRAWINGS:

DRAWING NO.	SUBJECT.
CEG/SACHIN-NADIAD/PLAN-PROFILE/S-51	L-SECTION

APPROVED

DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET. MANAGER / DFCC	GGM/Engg. J-I

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.

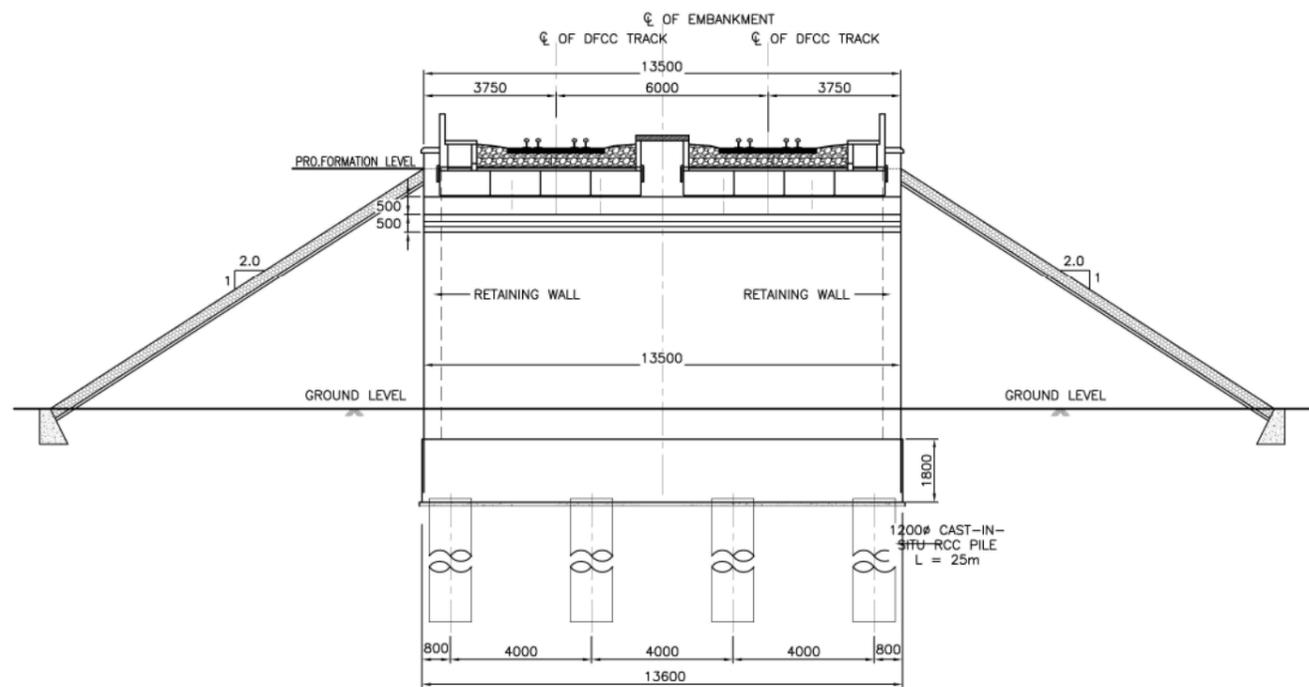
PROJECT: - WESTERN DEDICATED FRIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)

CLIENT: -

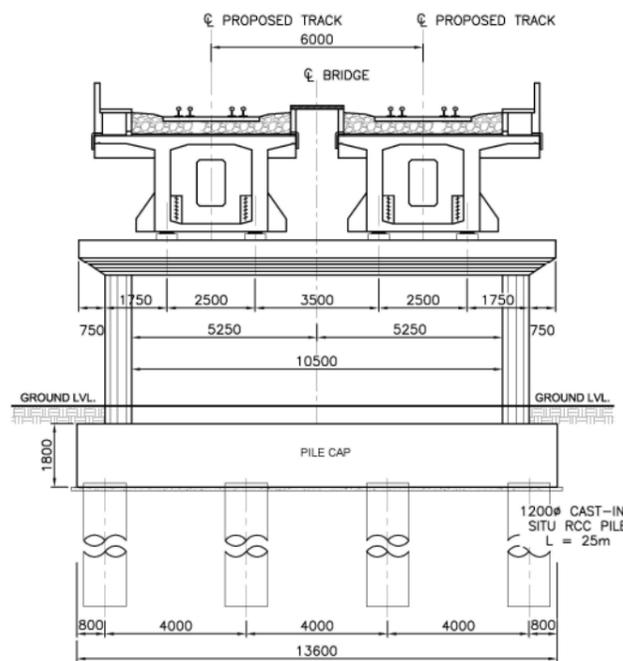
TITLE: - SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 401 (FOR CANAL & FIELD TRACK CROSSING), 1x18.30m+1x6.10m, PSC BOX GIRDER+PSC SOLID SLAB AT (NEW.CH 184933.907), GENERAL ARRANGEMENT DRAWING (SHEET: 1 OF 3)

DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:34pm	REV. No.
PROJECT NO. 12008	DRG NO.:	CEG/SACHIN-NADIAD/GAD-BRIDGE/S-5101

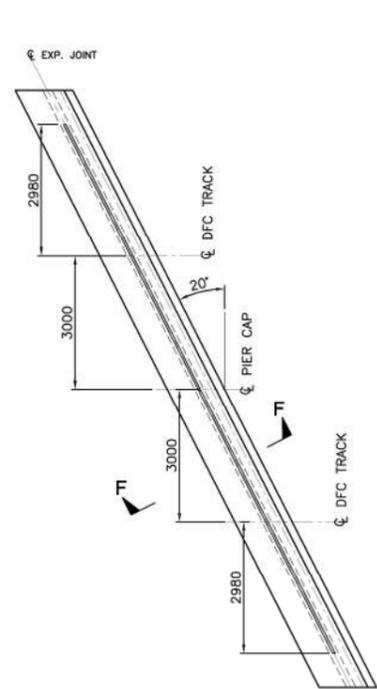
CONSULTING Engineers Group Ltd.
E-12, Mooli Colony, Malviya Nagar Jaipur-17
Tel: +91-141-2520898, 2521899, 2520556
Fax: 2521899, E-Mail: ceeg@ceegindia.com



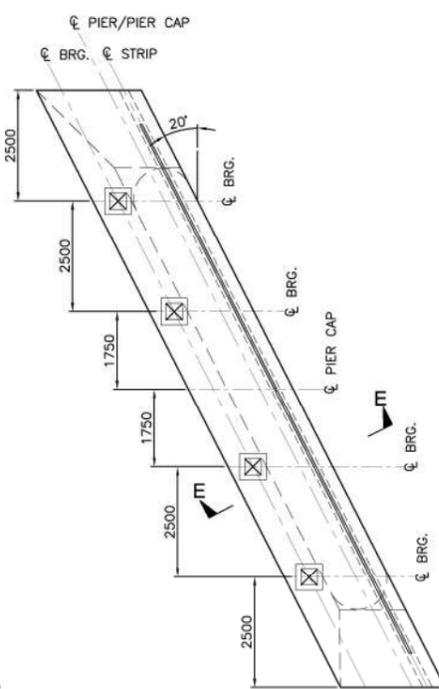
SECTION B-B
(SCALE 1:100)



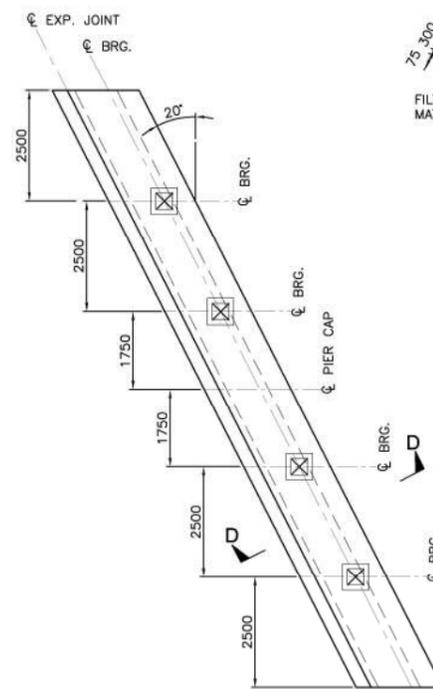
SECTION C-C
(SCALE 1:100)



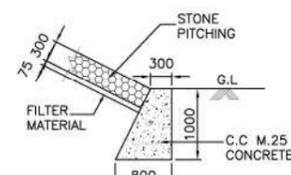
PLAN AT ABUTMENT CAP LVL. A2
(SCALE 1:80)



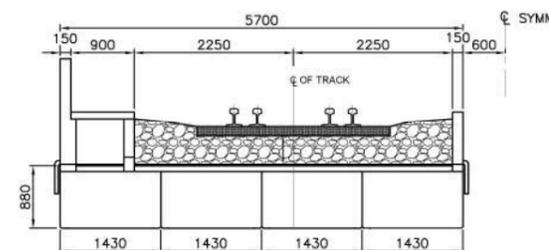
PLAN AT PIER CAP LEVEL
(SCALE 1:80)



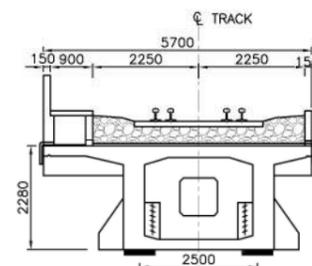
PLAN AT ABUT. CAP LEVEL A1
(SCALE 1:80)



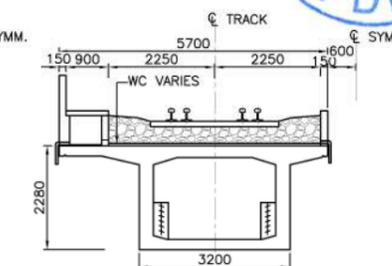
SECTION X-X
(SCALE 1:50)



TYP. CROSS SECTION. FOR 6.1m SPAN
6.10m SPAN (SOLID SLAB OPTION)
(SCALE 1:50)



SECTION AT SUPPORT



SECTION AT MID SPAN

18.3m (SPAN POST TENSION BOX GIRDER)
(SCALE 1:75)



REFERENCE DRAWINGS:	
DRAWING NO.	SUBJECT
CEGISACHIN-HADIADI/PLAN-PROFILE/S-91	L-SECTION

APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET MANAGER / DFCC	GGM(Engg-I)

STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 T/M TRAILING LOAD.	
PROJECT: - WESTERN DEDICATED FREIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)	

CLIENT: -	
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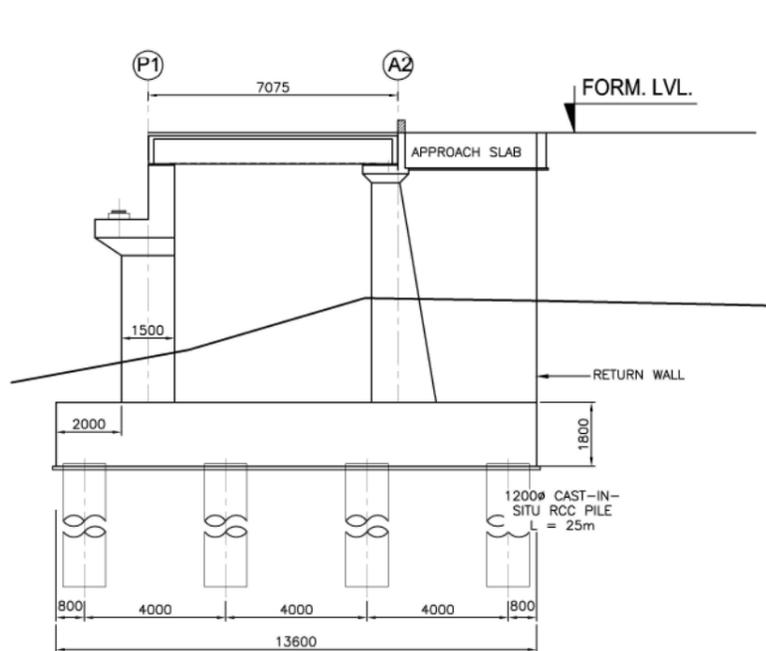
TITLE:- SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 401 (FOR CANAL & FIELD TRACK CROSSING), 1x18.30m+1x6.10m, PSC BOX GIRDER+PSC SOLID SLAB AT (NEW CH 184933.907), GENERAL ARRANGEMENT DRAWING (SHEET - 2 OF 3)

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

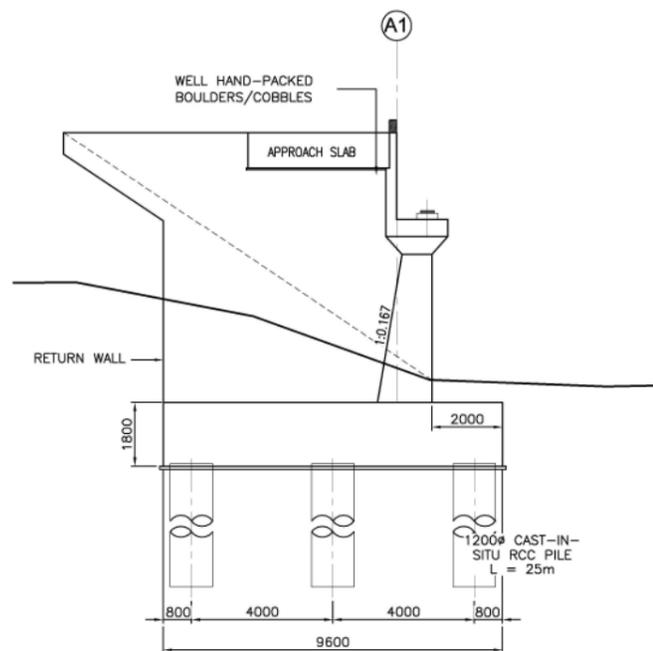
THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

CONSULTING Engineers Group Ltd. E-12, Moji Colony, Malviya Agar Jaipur-17 Tel: +91-141-2520899, 2521899, 2520556 Fax: 2521899, E-Mail: ceg@cegindia.com

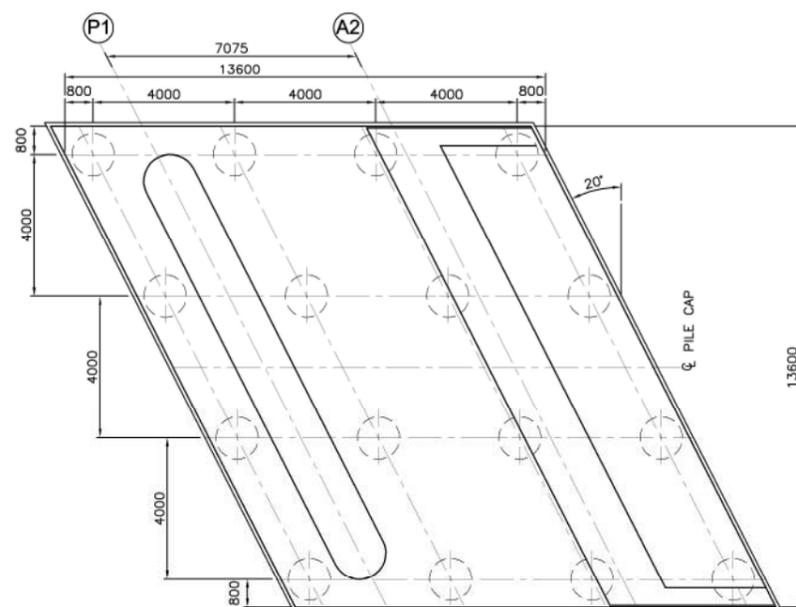
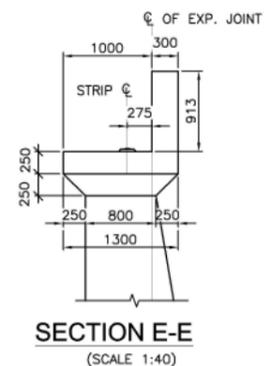
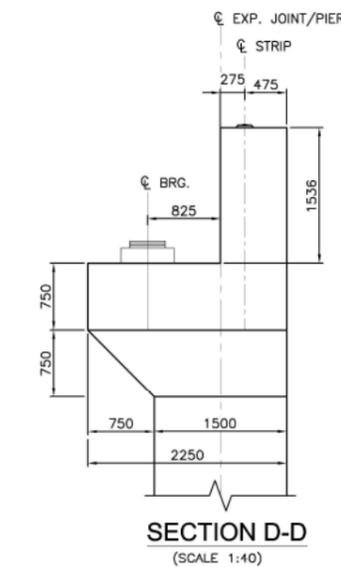
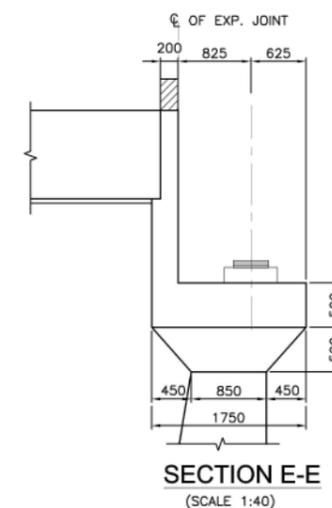
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.	APPROVED BY: G.U.R.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:34pm	REV. No.
PROJECT NO. 12008	DRG NO. CEGISACHIN-HADIADI/GAD-BRIDGE/S-5401	



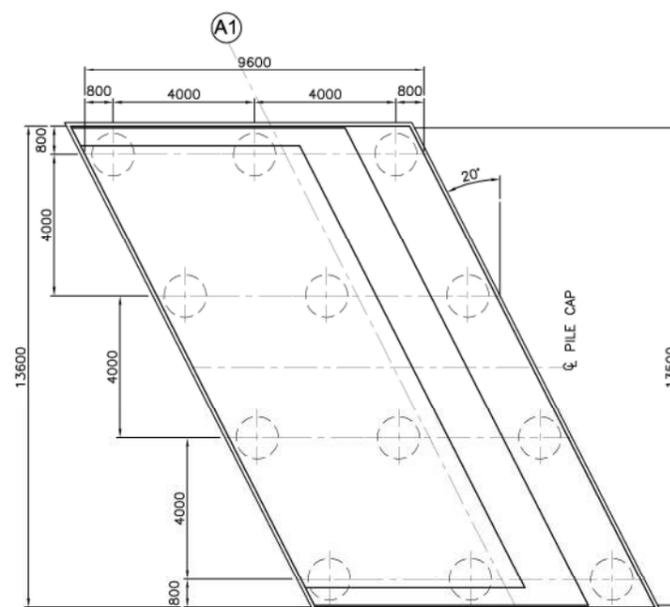
DETAIL FOR PIER P1 & ABUTMENT A2
(SCALE 1:100)



DETAIL FOR ABUTMENT A1
(SCALE 1:100)



PLAN AT PILE CAP LEVEL FOR P1 & A2
(SCALE 1:100)



PLAN AT PILE CAP LEVEL FOR A1
(SCALE 1:100)

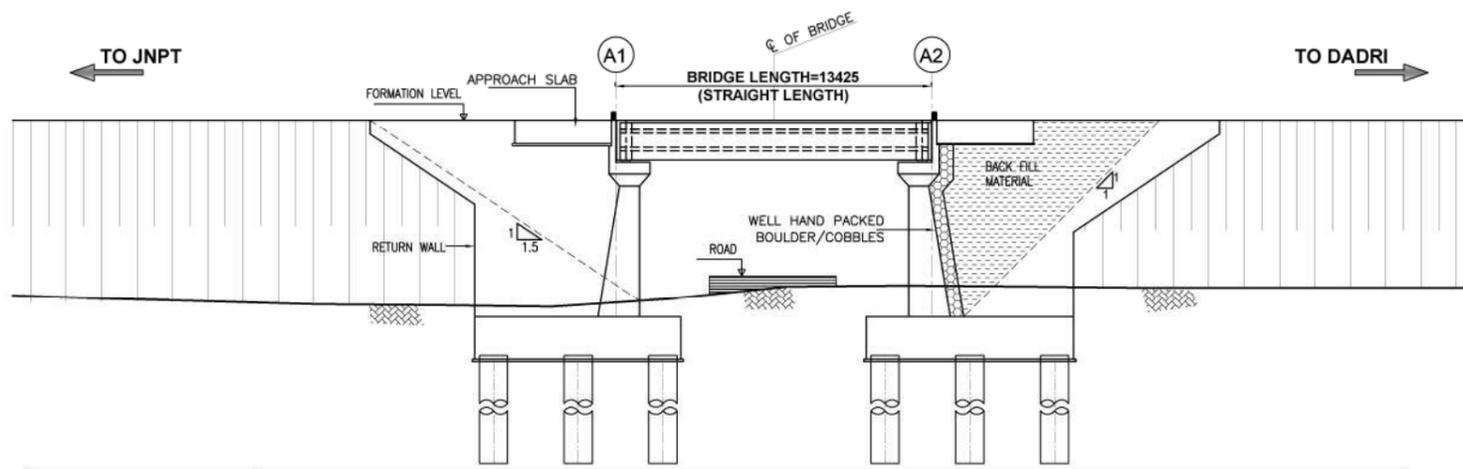


Formation width of 13.5m to be read as 13.86m & respective dimensions are to be corrected according by the Bidder

THIS DRAWING WAS ORIGINALLY PREPARED BY C E G (CONSULTING Engineers Group Ltd.) CONSULTANT AND REVIEWED / MODIFIED BY NIPPON KOEI CONSORTIUM.

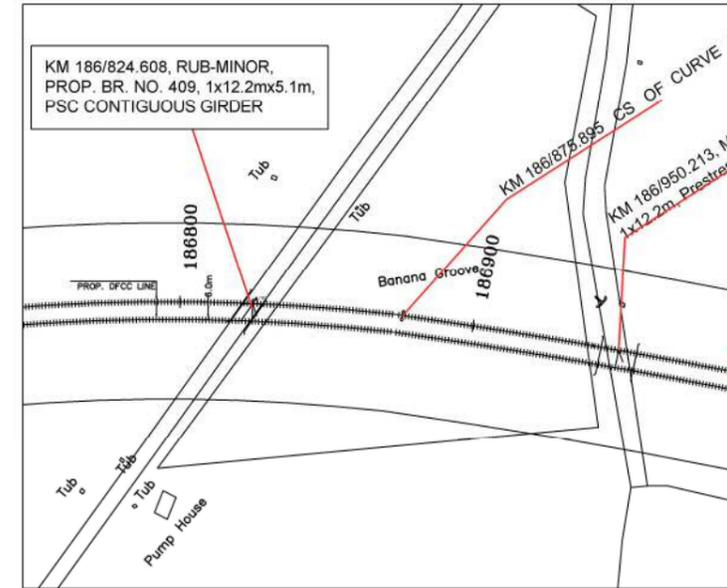
CONSULTING Engineers Group Ltd. E-12, Moji Colony, Malviya Agar Jaipur-17 Tel: +91-141-2520899, 2521899, 2520556 Fax: 2521899, E-Mail:ceg@ceginia.com

REFERENCE DRAWINGS:	
DRAWING NO	SUBJECT
CEG/SACHIN-NADIADI/PLAN-PROFILE-9/1	L-SECTION
APPROVED	
DESIGNATION	INITIALS OF APPROVING OFFICIALS
G.M. / DFCC	
MANAGER / DFCC	CPM/DFCC
ASSET MANAGER / DFCC	GM(E)engg-H
STANDARD OF LOADING: 32.50 TONNE AXLE LOAD, 12 TM TRAILING LOAD.	
PROJECT: - WESTERN DEDICATED FREIGHT CORRIDOR BETWEEN JNPT (NEAR MUMBAI) - DADRI (NEAR DELHI)	
CLIENT: - 	
TITLE:- SECTION NO. 05 (VASAD - PALEJ) CONSTRUCTION OF BRIDGE NO. 401 (FOR CANAL & FIELD TRACK CROSSING), 1x18.30m+1x6.10m, PSC BOX GIRDER+PSC SOLID SLAB AT (NEW CH 184933.907), GENERAL ARRANGEMENT DRAWING (SHEET : 3 OF 3)	
DRAWN BY: R.K.Y.	CHECKED BY: V.K.S.
SCALE: - AS SHOWN	DATE: 01/06/2015 - 12:34pm
PROJECT NO. 12008	DRG NO: CEG/SACHIN-NADIADI/GAD-BRIDGE/S-5401

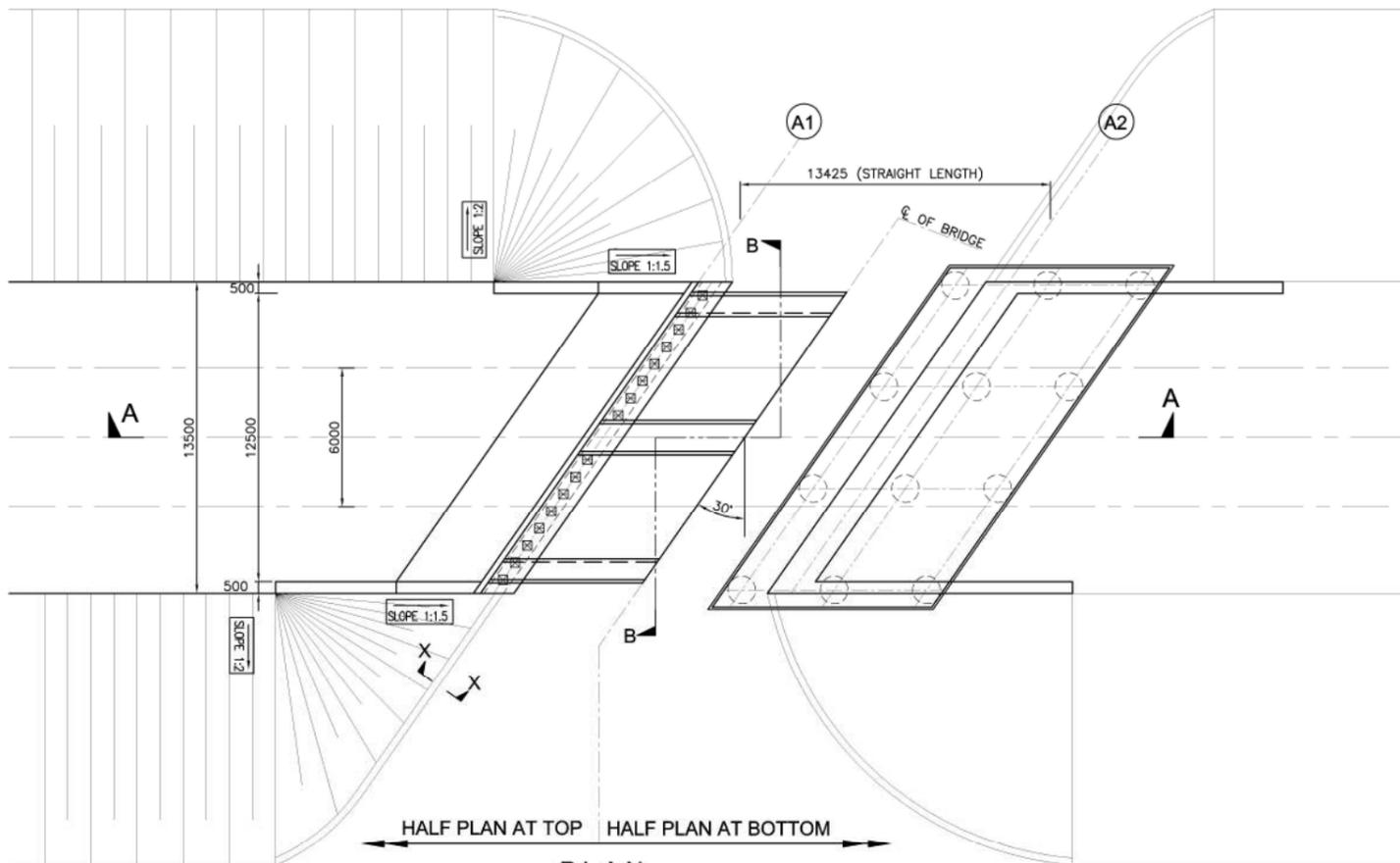


FORMATION LEVEL		37.710
GROUND LEVEL		30.560
CHAINAGE	186817.495	186824.608
		186831.320

LONGITUDINAL SECTION A-A
(SCALE 1:150)



KEY-PLAN



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 DFCC/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) JOE 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	5
BRIDGE NO.	409
CHAINAGE	186824.608
SPAN CONFIGURATION	1x12.2m
OVERALL SPAN (mm)	13375
EFFECTIVE SPAN (mm)	12575
CLEAR SPAN (mm)	12200
TYPE OF STRUCTURE	PRESTRESSED CONTIGUOUS BOX
DEPTH OF SUPERSTRUCTURE (mm)	1760
TYPE OF CROSSING	STATE HIGHWAY
BRIDGE (STRAIGHT/CURVE/SKEW)	SKEW - 30°
FORMATION LEVEL R.L. (METER)	37.710
ROAD LEVEL R.L. (METER)	30.567
VERTICAL CLEARANCE MIN. (mm)	5100
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



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

Client :
DFCC
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 OF MAJOR
BRIDGE NO. 409 FOR MDR AT Ch. 186824.608, SPAN
1x12.2 m PRESTRESS CONTIGUOUS BOX GIRDER

Drawing Number :
NKC -CTS -MAJ -VD -00409 (SHEET 1 OF 2)
Scale :
AS SHOWN
Reference :
GAD PREPARED BY CPM VADODARA
Drawn By :
Checked By :
Approved By :

Consultant :
NK CONSORTIUM
4th Floor, Pragati Maidan Metro Station Building,
New Delhi-110001, INDIA