



National Highways & Infrastructure Development Corporation Limited

Ministry of Road Transport & Highways, Govt. of India

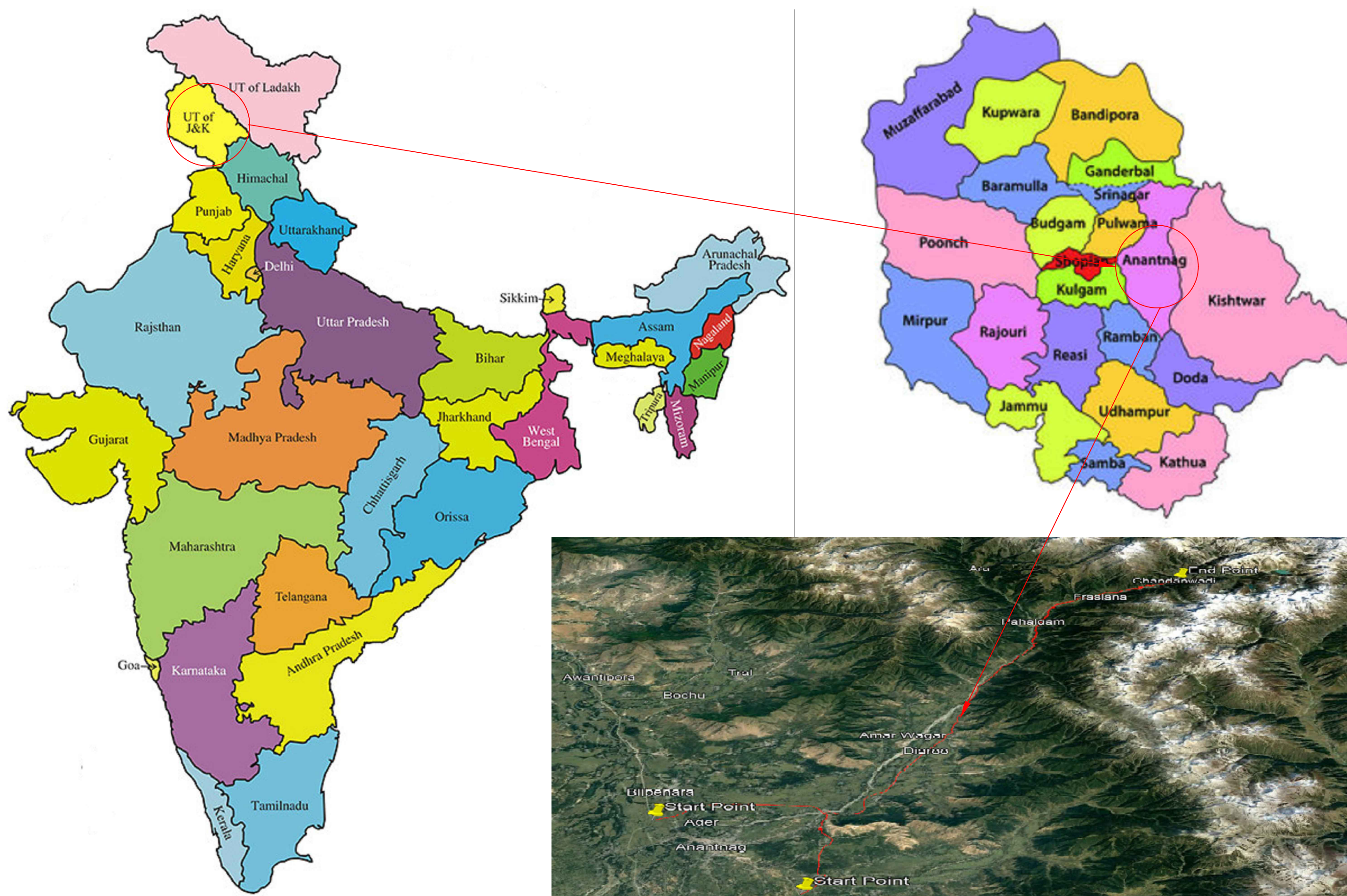
PROJECT:

Consultancy Services for Preparation of Detailed Project Report for 2 Laning of Khanabal – Baltal section on NH-501 (Length - 90km) with paved shoulder in the UT of Jammu & Kashmir.

DETAILED PROJECT REPORT

GENERAL ARRANGEMENT DRAWINGS STRUCTURE (PACKAGE 2)

VOLUME-IX DRAWINGS VOLUME (STRUCTURE)



CONSULTANT:

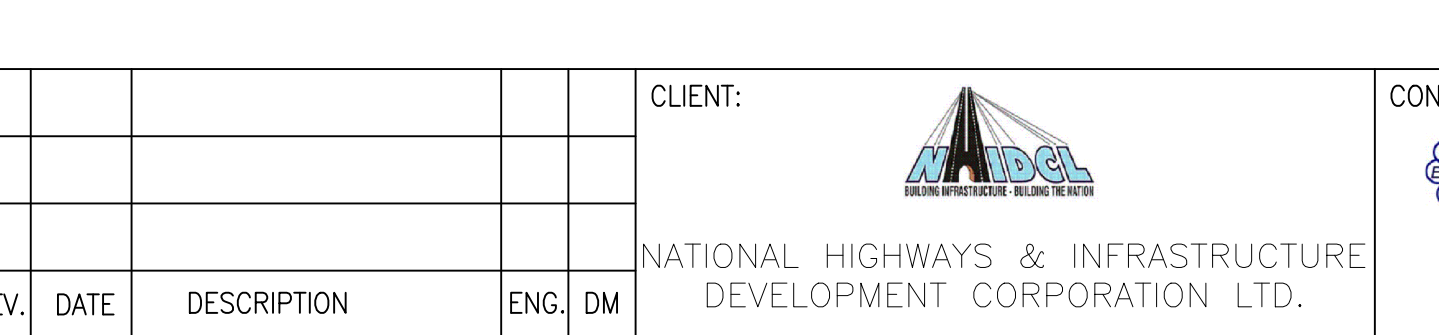
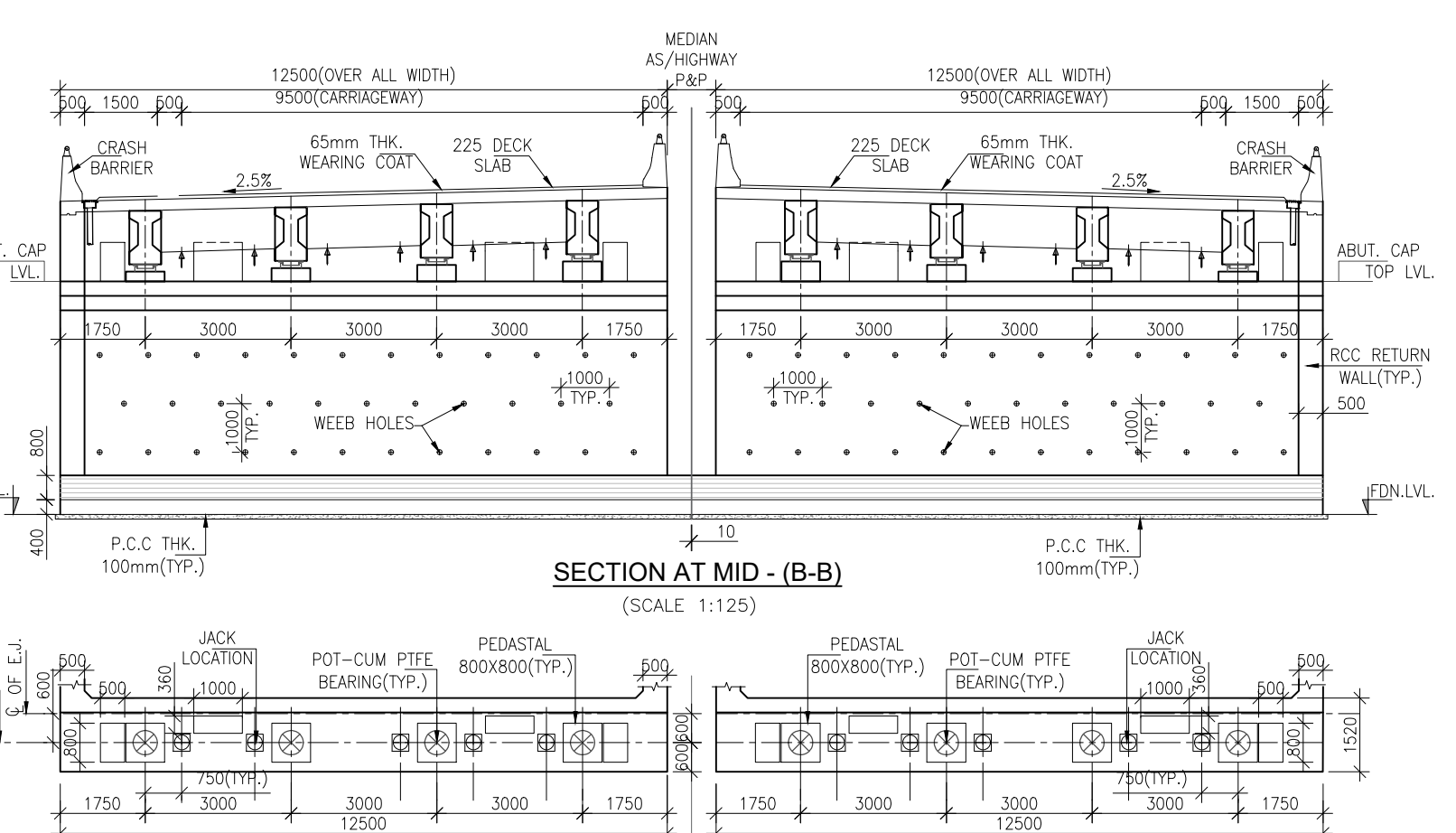
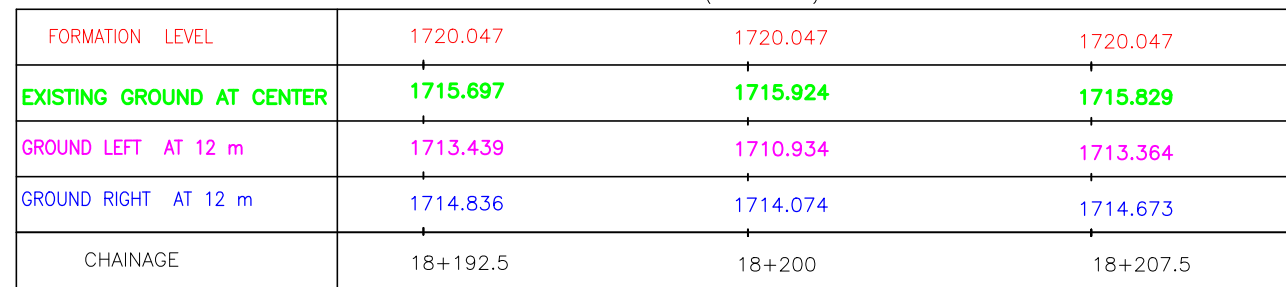


REDECON (I) Pvt. Ltd.
REDECON HOUSE" E-49/4,
Okhla Phase-II, New Delhi-110020

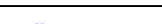
DATE- JAN. 2024

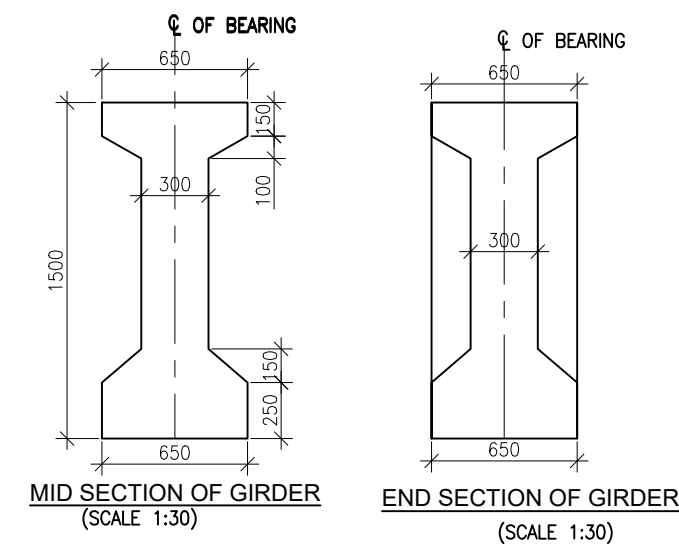
DRAWING INDEX PACKGE 2
SEER HAMDAN TO PAHALGAM

SL.No.	DRAWING TITLE	DRAWING No.	SHEET	REV.
1	GENERAL ARRANGEMENT DRAWING MNB AT CH- 18+200 (SPAN 1X15 SK)	NHIDCL / J&K / NH-501 / GAD / CH-18+200 / S-101	01	R0
2	GENERAL ARRANGEMENT DRAWING MNB AT CH-18+625 (SPAN 1X20)	NHIDCL / J&K / NH-501 / GAD / CH-18+625 / S-101	02	R0
3	GENERAL ARRANGEMENT DRAWING MNB AT CH-21+113 (SPAN 1X10)	NHIDCL / J&K / NH-501 / GAD / CH-21+113 / S-101	01	R0
4	GENERAL ARRANGEMENT DRAWING MNB AT CH-21+525 (SPAN 1X15.529)	NHIDCL / J&K / NH-501 / GAD / CH-21+525 / S-101	02	R0
5	GENERAL ARRANGEMENT DRAWING MNB AT CH-22+215(SPAN 1X14.833)	NHIDCL / J&K / NH-501 / GAD / CH-22+215 / S-101	02	R0
6	GENERAL ARRANGEMENT DRAWING MNB AT CH-24+458(SPAN 1X30)	NHIDCL / J&K / NH-501 / GAD / CH-24+458 / S-101	02	R0
7	GENERAL ARRANGEMENT DRAWING MNB AT CH-24+610(SPAN 1X8)	NHIDCL / J&K / NH-501 / GAD / CH-24+610/ S-101	01	R0
8	GENERAL ARRANGEMENT DRAWING MNB AT CH-24+785(SPAN 1X21.029)	NHIDCL / J&K / NH-501 / GAD / CH-24+785/ S-101	02	R0
9	GENERAL ARRANGEMENT DRAWING MNB AT CH-24+890(SPAN 1X41.411)	NHIDCL / J&K / NH-501 / GAD / CH-24+890/ S-101	02	R0
10	GENERAL ARRANGEMENT DRAWING MNB AT CH-25+060(SPAN 1X43.785)	NHIDCL / J&K / NH-501 / GAD / CH-25+060/ S-101	02	R0
11	GENERAL ARRANGEMENT DRAWING MNB AT CH-28+660(SPAN 1X10)	NHIDCL / J&K / NH-501 / GAD / CH-28+660/ S-101	02	R0
12	GENERAL ARRANGEMENT DRAWING MNB AT CH-28+994(SPAN 1X32.635)	NHIDCL / J&K / NH-501 / GAD / CH-28+994/ S-101	02	R0
13	GENERAL ARRANGEMENT DRAWING MNB AT CH-32+098(SPAN 1X12)	NHIDCL / J&K / NH-501 / GAD / CH-32+098/ S-101	01	R0
14	GENERAL ARRANGEMENT DRAWING MNB AT CH-36+200(SPAN 1X50)	NHIDCL / J&K / NH-501 / GAD / CH-36+200/ S-101	02	R0
15	GENERAL ARRANGEMENT DRAWING MNB AT CH-38+281(SPAN 1X10)	NHIDCL / J&K / NH-501 / GAD / CH-38+281/ S-101	01	R0

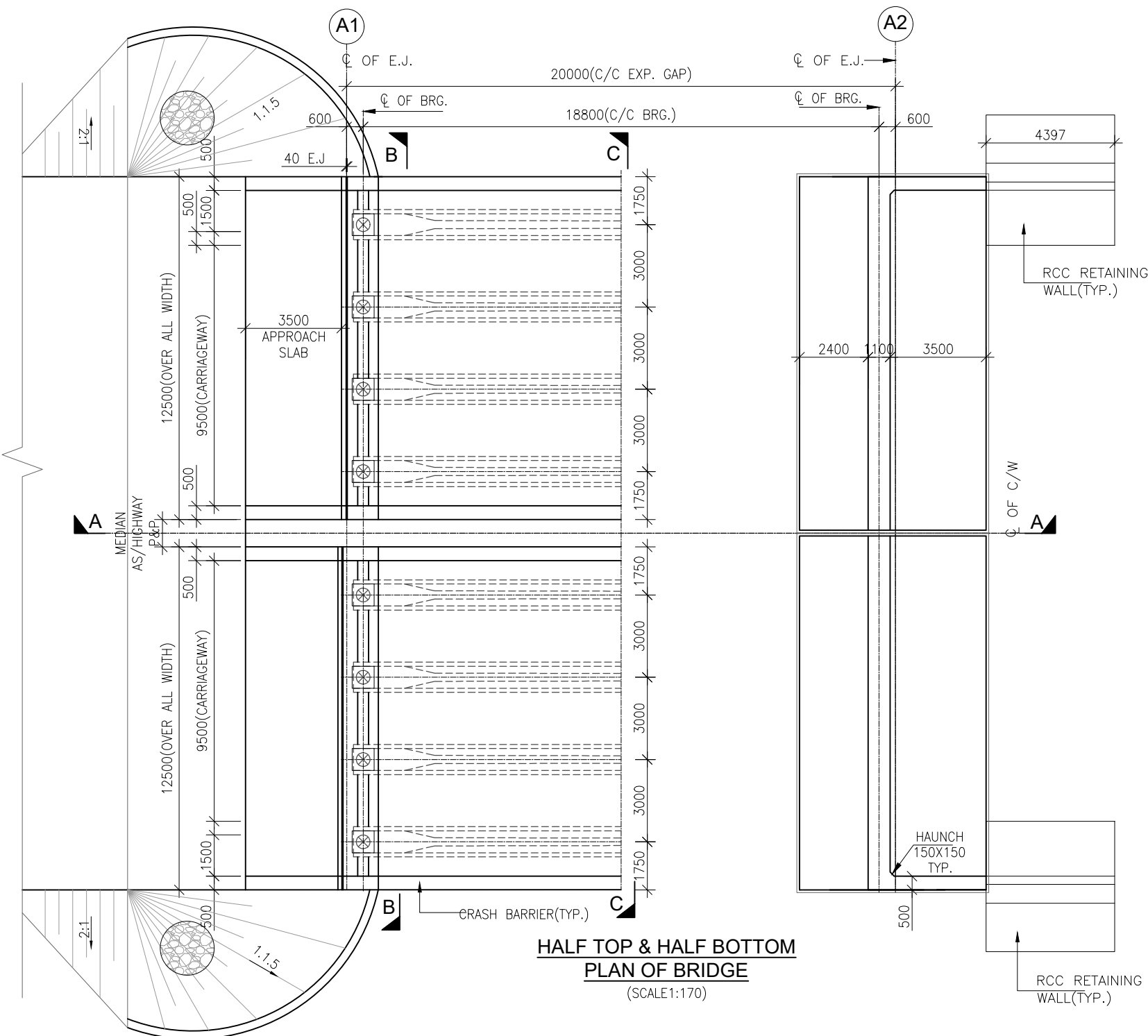


NOTES:					
1	ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS. UNLESS OTHERWISE MENTIONED ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED NO DIMENSION IS TO BE SCALED.				
S.No.	DESCRIPTION	CONFORM	ADOPTED		
a	CONDITION OF EXPOSURE	IRC-112:2020	MODERATE		
b	SEISMIC ZONE IMPORTANCE FACTOR	IRC SP114:2020	ZONE - V 1.2		
c	LIVE LOAD- CONSIDERED i. 3L CLASS A ii. 1L CLASS A +1L 70R (W) iii. SPECIAL VEHICLE (SV) LOADING	IRC 6 :2017	CRITICAL OF i,ii & iii		
d	SNOW LOAD OF 500 kg/cum	LIVE LOAD	ACCUMLATION		
	i) COMBINE SNOW LOAD WITH LIVE LOAD ii) COMBINE SNOW LOAD WITH LIVE LOAD iii) COMBINE SNOW LOAD WITH LIVE LOAD	WHEELED VEH. TRACKED VEH. NIL	SNOW 250mm SNOW 500mm SNOW >500mm		
NOTE:- MAXIMUM RECORDED SNOW ACCUMULATION AS PER SITE = 1200mm					
2	TECHNICAL SPECIFICATION TO BE FOLLOWED				
S.No.	DESCRIPTION	CONFORM	ADOPTED		
a	WEARING COURSE	MORT&H. SECTION 2702	65mm		
b	BEARINGS AS PER APPROVED MANUFACTURER	IRC 83:2018 (PART III)	POT/PTEE		
c	GRADE OF REBARS.	IS:1786.	Fe-500D		
d	BACK FILL BEHIND ABUT. RETURN/WING/ RETAINING WALL	IRC 78 2014	Ø :30 DEG. ≥18kN/cum Δ:20DEG.		
e	LAYING, COMPACTION & EXTENT OF BACKFILL BEHIND ABUTMENT & RETURN WALL	IRC 78 2014 APPENDIX:6	-		
f	WEEP HOLES,SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUT.& RETURN WALL	IRC 78 2014 MORT&H. SECTION 2706	100mm DIA 1000 c/c V/H		
g	WATER TO BE USED FOR CONCRETING, GROUTING &CURING	IRC-112-2020	-		
h	DRAINAGE SPOUTS	MORT&H. SECTION 2705	-		
3	HYDRAULIC DATA				
a	HFL	m	1716.902		
b	DISCHARGE	CUMEC	281.970		
c	LWL	m	-		
d	VELOCITY	m/s	5.700		
e	VC(MIN.)	m	0.900		
f	MSL.(ABUTMENT)	m	1703.670		
4	GRADE & CLEAR COVER				
ELEMENT DESCRIPTION		MATERIAL	GRADE	COVER	
SUPER STRUCTURE					
RCC GIRDER(CAST IN SITU)		RCC	M35	50	
CAST IN PLACE SLAB		RCC	M35	40	
FOUNDATION		RCC	M35	75	
SUB STRUCTURE					
EARTH FACE		RCC	M35	75	
OTHER FACE				50	
LEVELING COURSE		PCC	M15	-	
LEVELING COURSE (BELOW APPROACH SLAB)		PCC	M15	-	
CRASH BARRIER		RCC	M40	50	
APPROACH SLAB		RCC	M30	50	
5	DESIGN DETAILS:				
TYPE OF STRUCTURE		DESIGN HT. (FRL-FDN)(m)	SAFE BEARING CAPACITY	TYPE OF FDN. STRATA	
ABUTMENT		7.56	346kN/Sq.m	ROCKY(non erodible)	
6	SBC. SHALL BE ENSURED BEFORE COMMENCEMENT OF THE EXECUTION.				
7	BEFORE STARTING UP THE EXECUTION VERIFY THE DIMENSION AND LEVELS. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE DESIGN CONSULTANT.				
DRAWING TITLE:			SHEET No:01 OF 01		
GENERAL ARRANGEMENT DRAWING AT +215(SPAN 1X15M) RCC T-BEAM			DATE: JAN.2024		
G No: /J&K/NH-501/GAD/CH-18+215/S-101			SCALE: AS SHOWN		
APPROVED	DESIGNED	CHECKED	APPROVED		
	A.R	VPS.	IRM.	PAPER SIZE:A2	REV:R0

					CLIENT:	 NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	CONSULTANT:	 REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT:	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501) PAKAGE-2 SEER HAMDAN TO PAHALGAM	DRAWING TITLE: GENERAL ARRANGEMENT DRAWING AT CH-18+215(SPAN 1X15M) RCC T-BEAM				SHEET No: 01 OF 01												
												DRAWING No: NHIDCL/J&K/NH-501/GAD/CH-18+215/S-101				DATE: JAN.2024											
														<table><tr><th>DRAWN</th><th>DESIGNED</th><th>CHECKED</th><th>APPROVED</th></tr><tr><td>G.N</td><td>A.R</td><td>VPS.</td><td>IRM.</td></tr></table>				DRAWN	DESIGNED	CHECKED	APPROVED	G.N	A.R	VPS.	IRM.	SCALE: AS SHOWN	
DRAWN	DESIGNED	CHECKED	APPROVED																								
G.N	A.R	VPS.	IRM.																								
REV.	DATE	DESCRIPTION	ENG.	DM							<table><tr><th>PAPER</th><th>SIZE:A2</th><th>REV:RO</th></tr></table>				PAPER	SIZE:A2	REV:RO										
PAPER	SIZE:A2	REV:RO																									



FORMATION LEVEL	1722.039	1722.039	1722.039
EXISTING GROUND AT CENTER	1718.021	1717.946	1717.412
GROUND LEFT AT 12 m	1716.400	1715.770	1716.041
GROUND RIGHT AT 12 m	1716.549	1715.986	1716.657
CHAINAGE	18+615	18+625	18+635



NOTES:

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d	SNOW LOAD OF 500 kg/cum	LIVE LOAD	ACCUMLATION
	i) COMBINE SNOW LOAD WITH LIVE LOAD	WHEELED VEH.	SNOW 250mm
	ii) COMBINE SNOW LOAD WITH LIVE LOAD	TRACKED VEH.	SNOW 500mm
	iii) COMBINE SNOW LOAD WITH LIVE LOAD	NIL	SNOW >500mm
	NOTE:- MAXIMUM RECORDED SNOW ACCUMULATION AS PER SITE = 1200mm		

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a	WEARING COURSE	MORT&H. SECTION 2702	65mm
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c	GRADE OF REBARS.	IS:1786.	Fe-500D
d	BACK FILL BEHIND ABUT. RETURN/WING/ RETAINING WALL	IRC 78 2014	Ø :30 DEG. ?:18kN/cum Δ:20DEG.
e	LAYING, COMPACTION & EXTENT OF BACKFILL BEHIND ABUTMENT & RETURN WALL	IRC 78 2014 APPENDIX:6	-
f	WEEP HOLES,SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUT.& RETURN WALL	IRC 78 2014 MORT&H. SECTION 2706	100mm DIA 1000 c/c V/H
g	WATER TO BE USED FOR CONCRETING, GROUTING &CURING	IRC-112-2020	-
h	DRAINAGE SPOUTS	MORT&H. SECTION 2705	-

3 HYDRAULIC DATA			
a	HFL	m	1718.533
b	DISCHARGE	CUMEC	145.500
c	LWL	m	—
d	VELOCITY	m/s	4.630
e	VC(MIN.)	m	0.900
f	MSL.(ABUTMENT)	m	1711.500

4	GRADE & CLEAR COVER		
ELEMENT DESCRIPTION	MATERIAL	GRADE	COVER
SUPER STRUCTURE			
RCC GIRDER(CAST IN SITU)	RCC	M35	50
CAST IN PLACE SLAB	RCC	M35	40
FOUNDATION	RCC	M35	75
SUB STRUCTURE			
EARTH FACE	RCC	M35	75
OTHER FACE			50
LEVELING COURSE	PCC	M15	—
LEVELING COURSE (BELOW APPROACH SLAB)	PCC	M15	—
CRASH BARRIER	RCC	M40	50
APPROACH SLAB	RCC	M30	50

5	DESIGN DETAILS:		
	TYPE OF STRUCTURE	DESIGN HT. (FRL-FDN)(m)	SAFE BEARING CAPACITY
	ABUTMENT	7.56	346kN/Sq.m
	ROCKY(non erodible)		
6	SBC SHALL BE ENSURED BEFORE COMMENCEMENT OF THE EXECUTION.		
7	BEFORE STARTING UP THE EXECUTION VERIFY THE DIMENSION AND LEVELS. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE DESIGN CONSULTANT.		

DRAWING TITLE: GENERAL ARRANGEMENT DRAWING AT CH-18+625(SPAN 1X20M) RCC T-BEAM				SHEET No: 01 OF 02	
				DATE: JAN.2024	
DRAWING No: NHIDCL/J&K/NH-501/GAD/CH-18+625/S-101				SCALE: AS SHOWN	
AWN	DESIGNED	CHECKED	APPROVED		
N	A.R	VPS.	IRM.	PAPER SIZE:A2	REV:R0

REV.	DATE	DESCRIPTION	ENG.	DM

CLIENT:



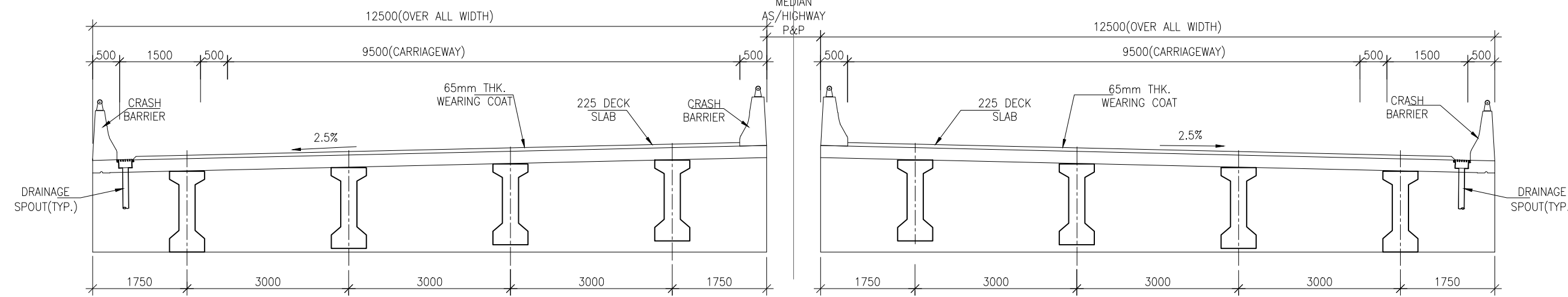
NATIONAL HIGHWAYS & INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.

CONSULTANT:

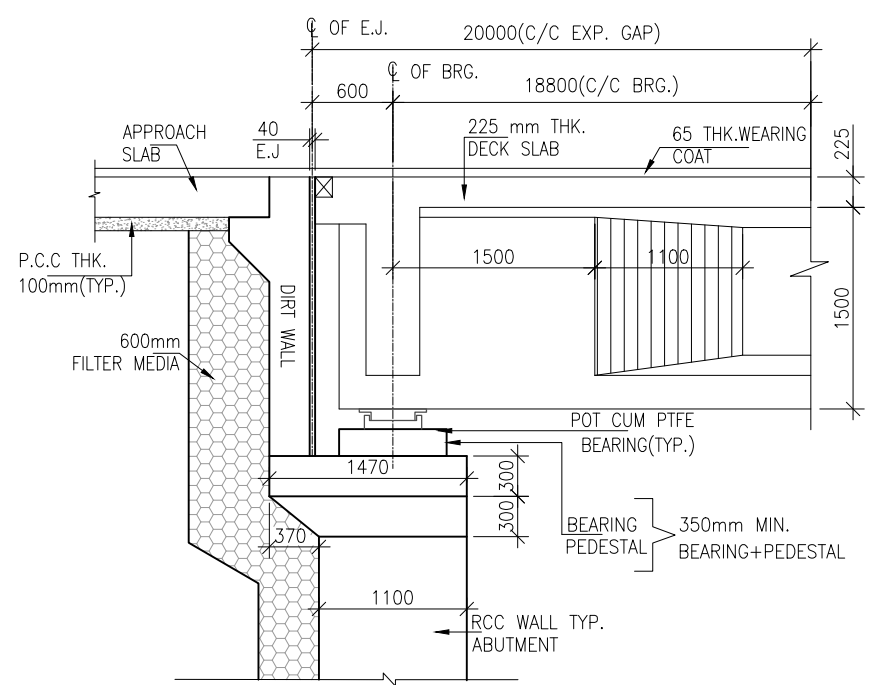
 REDECON (I) Pvt. Ltd.
"REDECON HOUSE" E-49/4, Okhla
Phase-II,
New Delhi-110020

PROJECT:	“Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh”.FROM KHANABAL TO BALTAL(NH-501)
	PACKAGE-2 SEER HAMDAN TO PAHALGAM

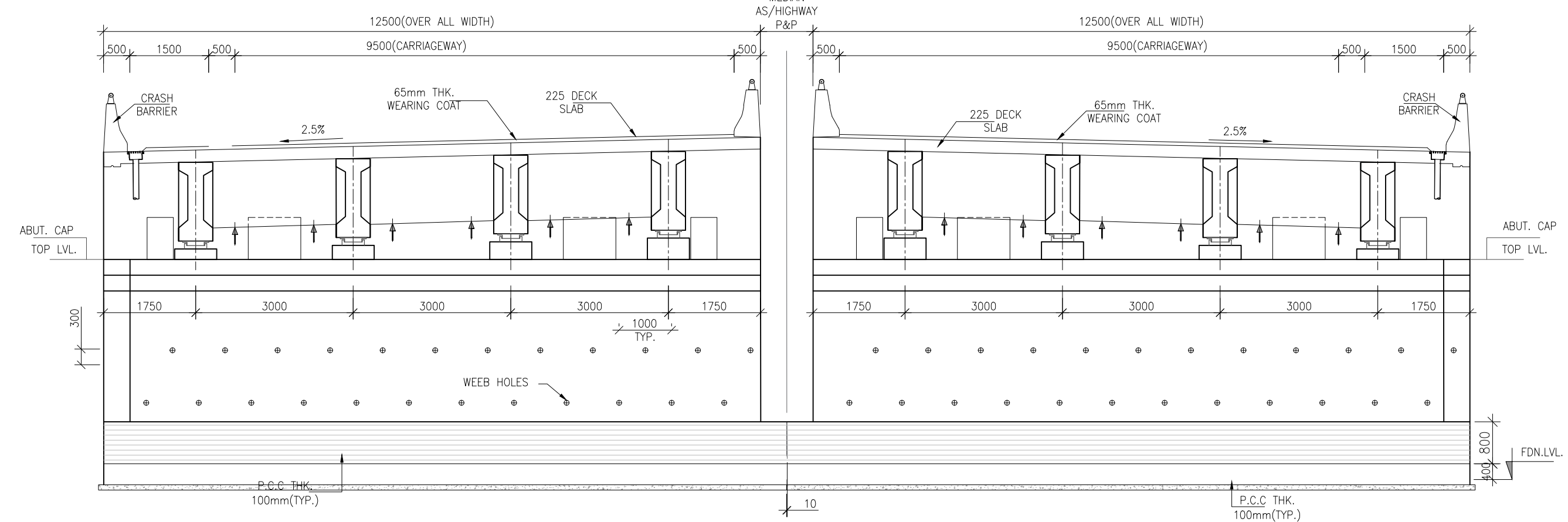
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DRAWN	DESIGNED	CHECKED	APPROVED		
G.N	A.R	VP.S.	IRM.	PAPER SIZE:A2	REV:R0



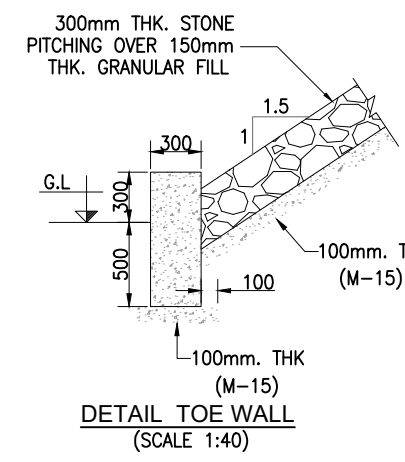
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(SCALE 1:75)



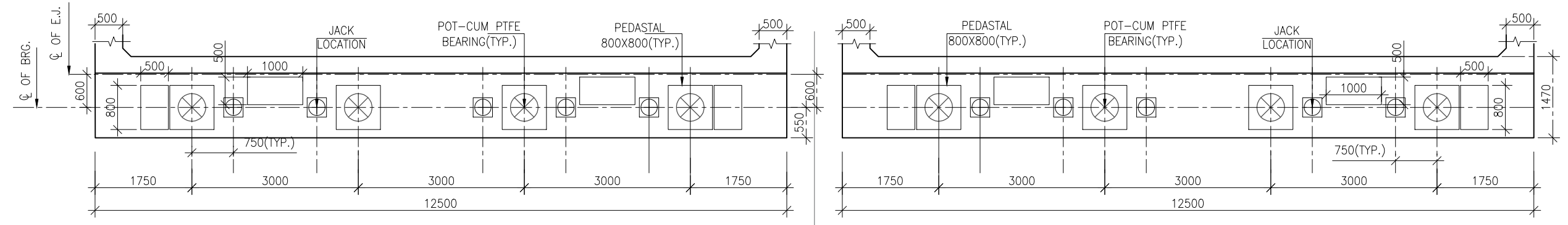
DETAIL '1'
(SCALE 1:30)



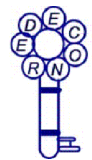
SECTION AT MID - (B-B)
(SCALE 1:75)

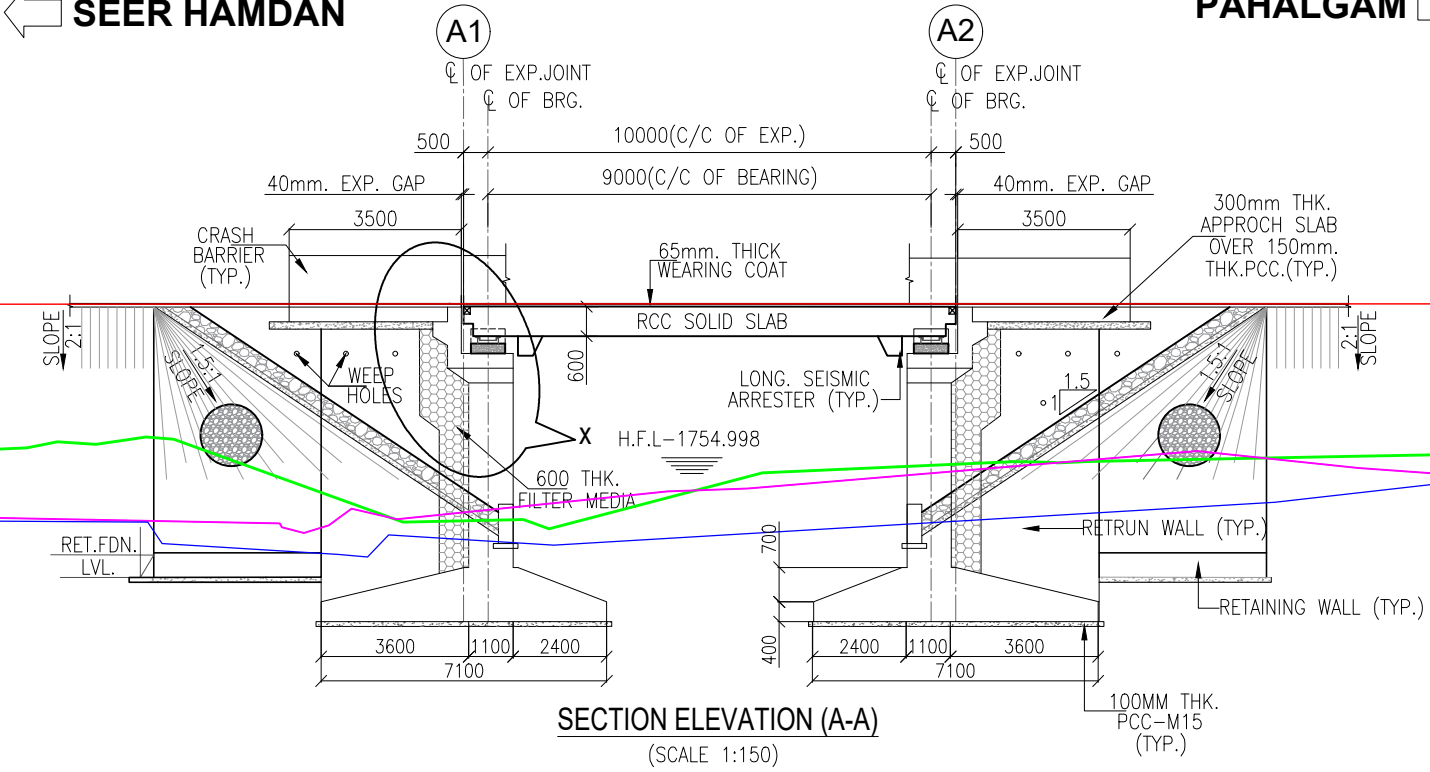


DETAIL TOE WALL
(SCALE 1:40)

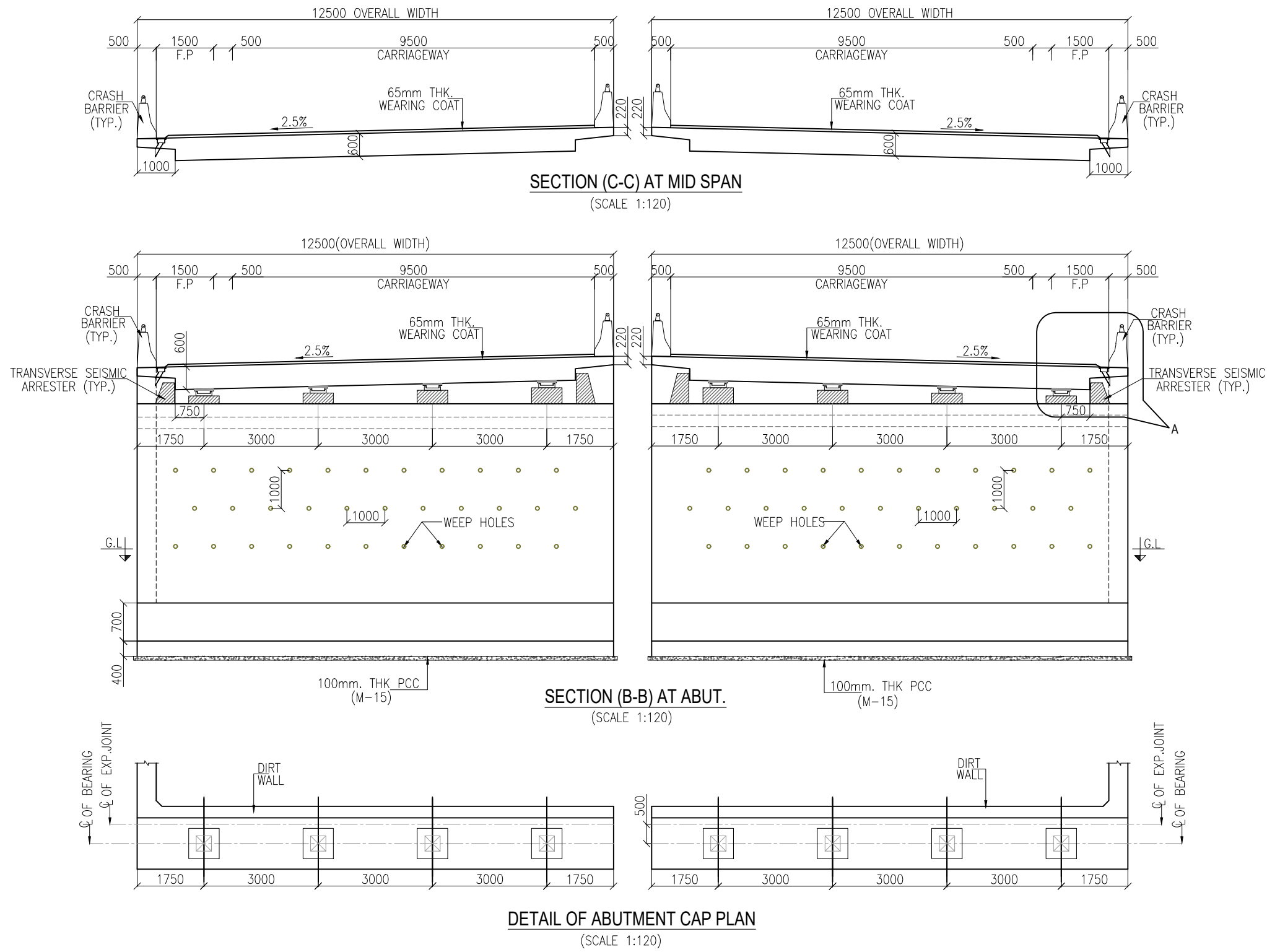
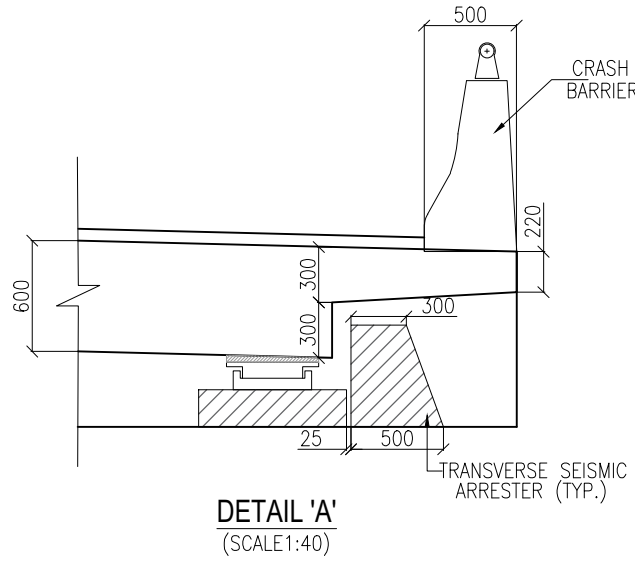
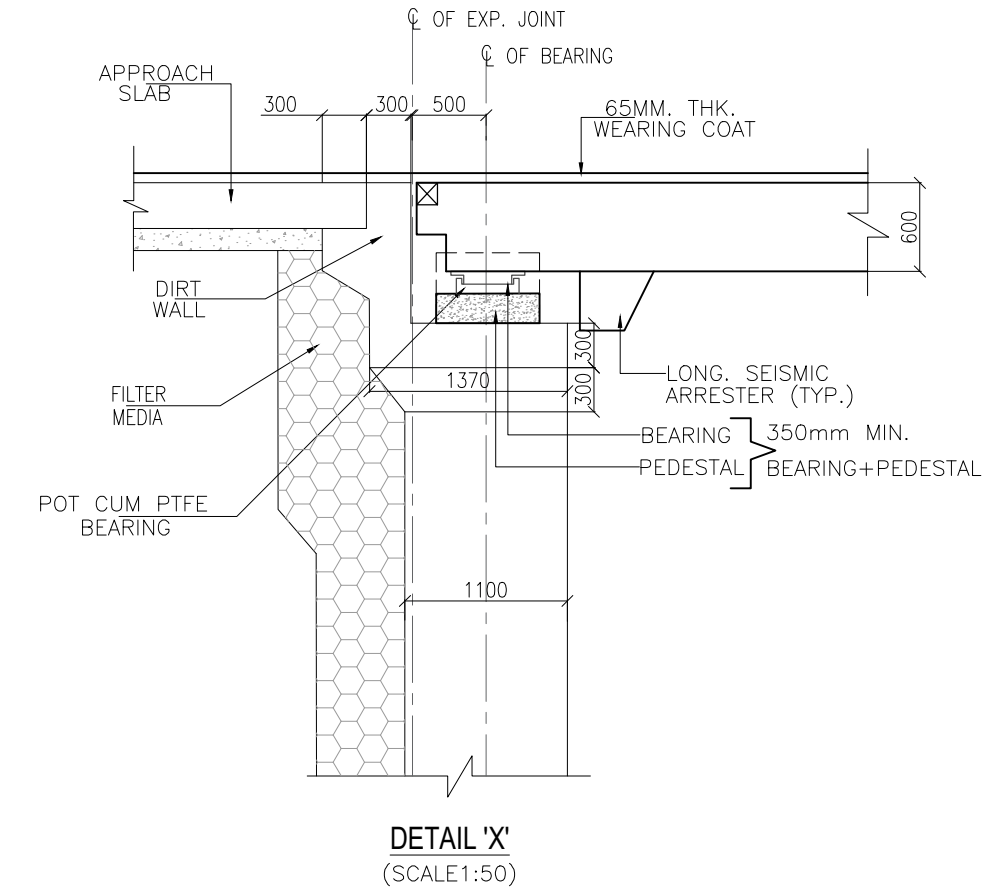
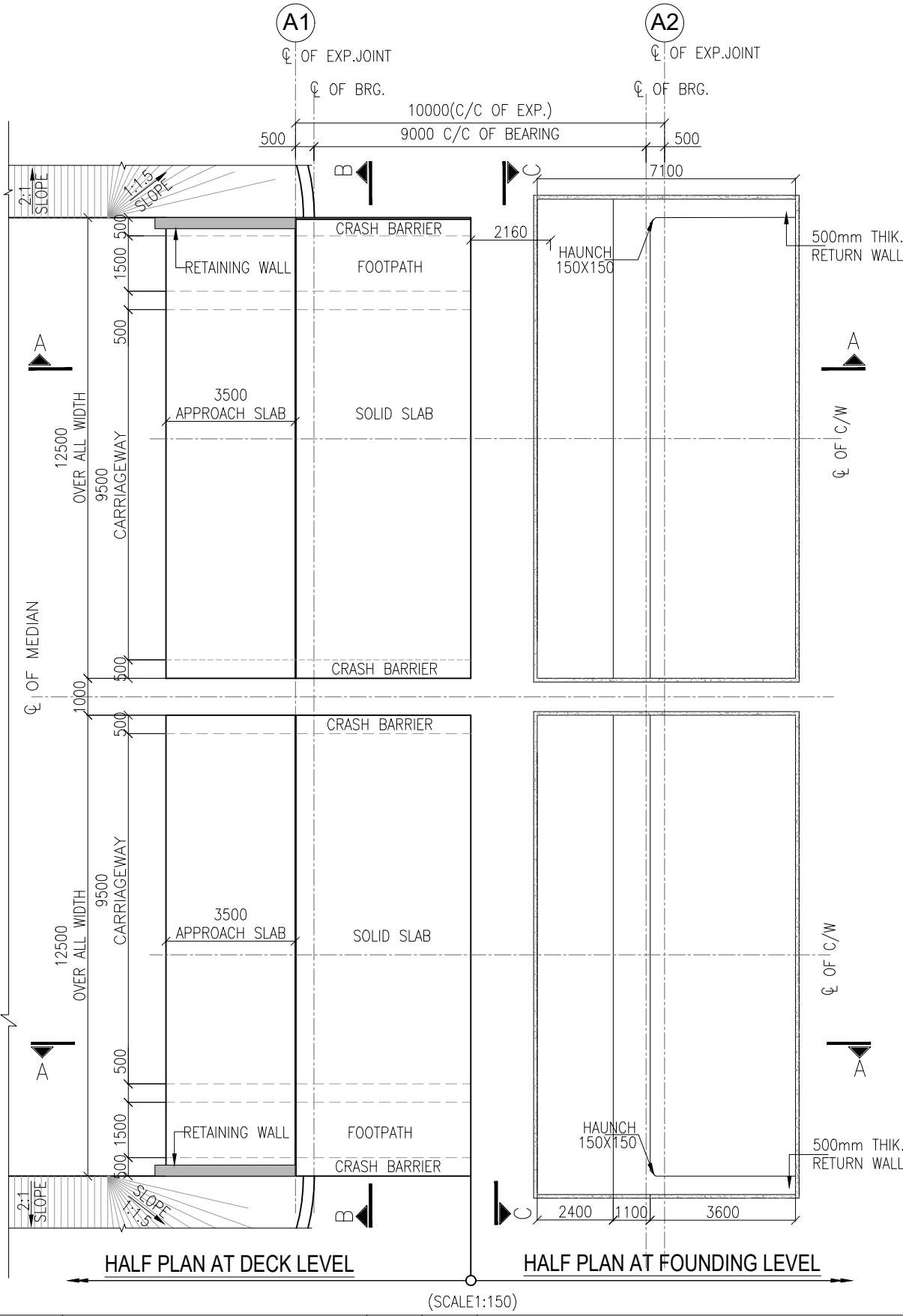


DETAIL OF ABUTMENT CAP PLAN
(SCALE 1:75)

					CLIENT:		CONSULTANT:		REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT:	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	DRAWING TITLE: GENERAL ARRANGEMENT DRAWING AT CH-18+625(SPAN 1X20M) RCC T-BEAM				SHEET No: 02 OF 02	
												DRAWING No: NHIDCL/J&K/NH-501/GAD/CH-18+625/S-101				DATE: JAN.2024	
												DRAWN				SCALE: AS SHOWN	
												DESIGNED					
												CHECKED					
												APPROVED					
REV.	DATE	DESCRIPTION	ENG.	DM	NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.					PACKAGE-2 SEER HAMDAN TO PAHALGAM		G.N	A.R	VPS.	IRM.	PAPER SIZE:A2	REV:R0



CHAINAGE (M.)	21+108	21+113	21+118
FRL LEVEL	1757.167	1757.167	1757.167
GROUND LEVEL	1751.683	1753.018	1753.187
GL 12m.LHS.	1752.108	1752.831	1753.186
GL 12m.RHS.	1751.249	1751.541	1752.004



NOTES:

1

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c	LIVE LOAD- CONSIDERED a. 3L CLASS-A b. CLASS A-2L PLUS 1LANE 70R W c. CLASS 70R TRACKED d. SPECIAL VEHICLE SV LOADING	IRC 6 :2017	CRITICAL OF a,b,c & d
d	SNOW LOAD OF 500 kg/cum	LIVE LOAD	ACCUMULATION
i)	COMBINE SNOW LOAD WITH LIVE LOAD	WHEELED VEH.	SNOW 250mm
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iii)	COMBINE SNOW LOAD WITH LIVE LOAD	NIL	SNOW >500mm
NOTE:- MAXIMUM RECORDED SNOW ACCUMULATION AS PER SITE = 1200mm			

2

HYDRAULIC DATA

HFL	m	1754.998
DISCHARGE	CUMEC	0.620
LBL	m	-
VELOCITY	m/s	2.920
VC(MIN.)	m	0.600
MSL.(ABUTMENT)	m	1754.770

3

TECHNICAL SPECIFICATION TO BE FOLLOWED

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a	WEARING COURSE	MORT&H. SECTION 2702	65mm
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g	WATER TO BE USED FOR CONCRETING, GROUTING &CURING	IRC-112-2020	-
h	DRAINAGE SPOUTS	MORT&H. SECTION 2705	-

4

DESIGN DETAILS:

TYPE OF STRUCTURE	DESIGNED HEIGHT (FRL-FDN)(m)	SOIL BEARING CAPACITY	TYPE OF FDN. STRATA
ABUTMENT	-	-	-

5

SBC. SHALL BE ENSURED BEFORE COMMENCEMENT OF THE EXECUTION.

6

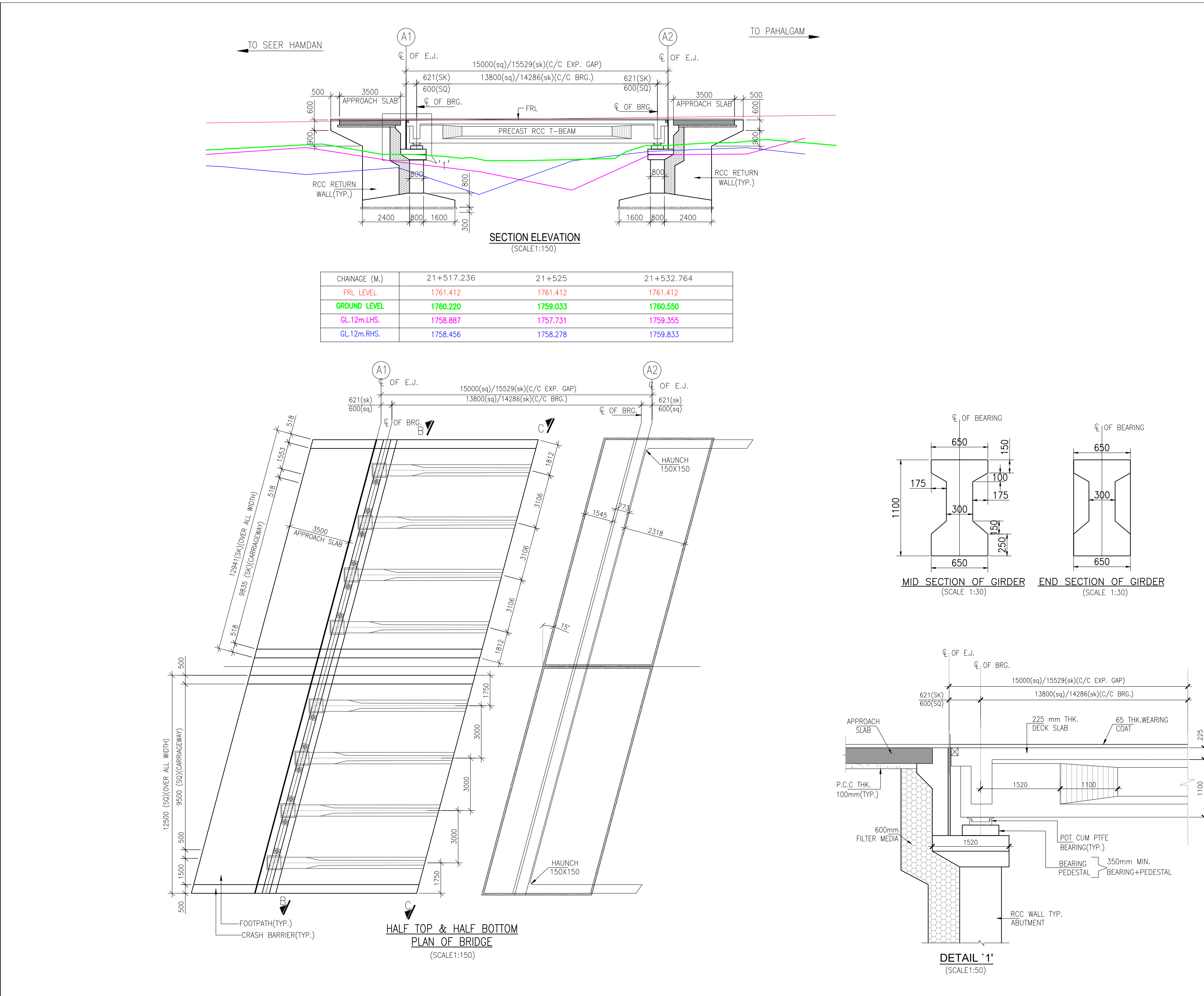
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DETAILS OF STRUCTURE

ITEM	EXISTING	PROPOSED
CHAINAGE	18+500	21+113
SPAN	2X3.8	1X10
TYPE	-	Minor Bridge
PROPOSAL	-	Re Construction
CONDITION	-	-

MATCH LINE

CLIENT:	CONSULTANT:	PROJECT:	DRAWING TITLE:	SHEET No:
NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BAL TAL(NH-501)	GENERAL ARRANGEMENT DRAWING OF SOLID SLAB AT CH-(21+113) (1X10 SPAN)	01 OF 01
			DRAWING No: NHIDCL/J&K/NH-501/MNB/CH-21+113/S-101	JAN.2024
			DRAWN DESIGNED CHECKED APPROVED	SCALE: AS SHOWN
REV. DATE DESCRIPTION ENG. DM		PACKAGE- 2 SEER HAMDAN TO PAHALGAM	G.N A.R VPS. IRM.	PAPER SIZE: A2 REV: 0



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1

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	NOTE:– MAXIMUM RECORDED SNOW ACCUMULATION AS PER SITE = 1200mm		

3

TECHNICAL SPECIFICATION TO BE FOLLOWED

S.No.	DESCRIPTION	CONFORM	ADOPTED
a	WEARING COURSE	MORT&H. SECTION 2702	65mm
b	BEARINGS AS PER APPROVED MANUFACTURER	IRC 83:2018 (PART III)	POT/PTEE
c	GRADE OF REBARS.	IS:1786.	Fe–500D
d	BACK FILL BEHIND ABUT. RETURN/WING/ RETAINING WALL	IRC 78 2014	Ø :30 DEG. ? :18kN/cum Δ:20DEG.
e	LAYING, COMPACTION & EXTENT OF BACKFILL BEHIND ABUTMENT & RETURN WALL	IRC 78 2014 APPENDIX:6	–
f	WEEP HOLES,SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUT.& RETURN WALL	IRC 78 2014 MORT&H. SECTION 2706	100mm DIA 1000 c/c V/H
g	WATER TO BE USED FOR CONCRETING, GROUTING &CURING	IRC–112–2020	–
h	DRAINAGE SPOUTS	MORT&H. SECTION 2705	–

4

DESIGN DETAILS:

TYPE OF STRUCTURE	DESIGNED HEIGHT (FRL–FDN)(m)	SOIL BEARING CAPACITY	TYPE OF FDN. STRATA
ABUTMENT	–	–	–

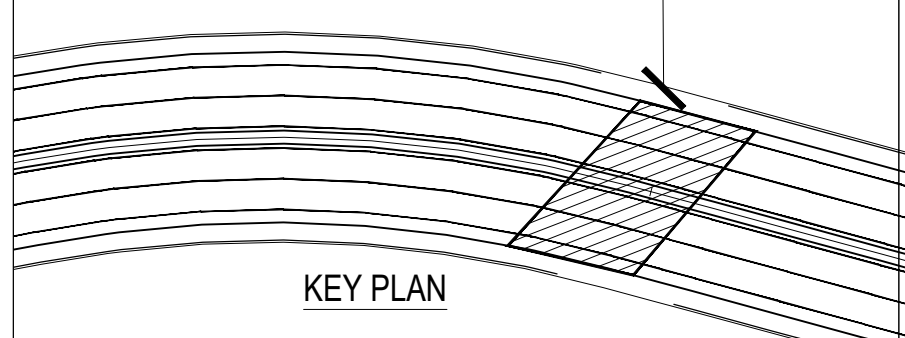
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SBC. SHALL BE ENSURED BEFORE COMMENCEMENT OF THE EXECUTION.

6

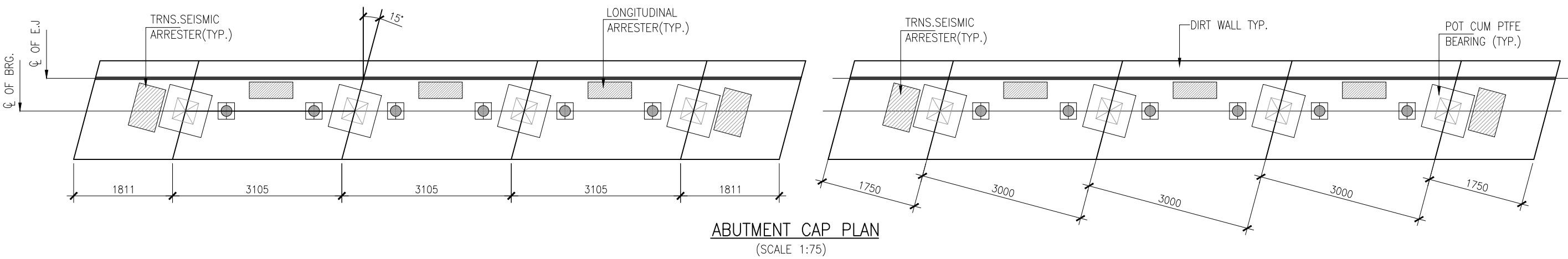
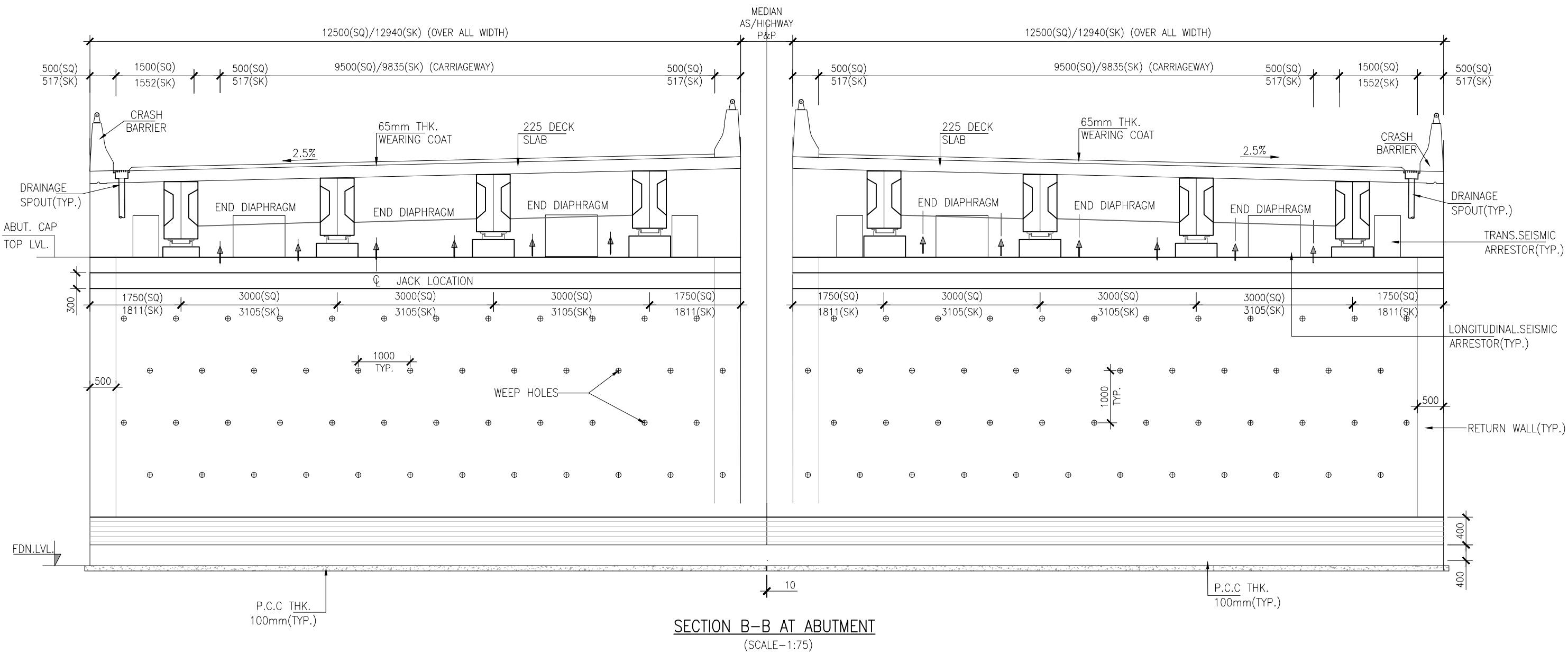
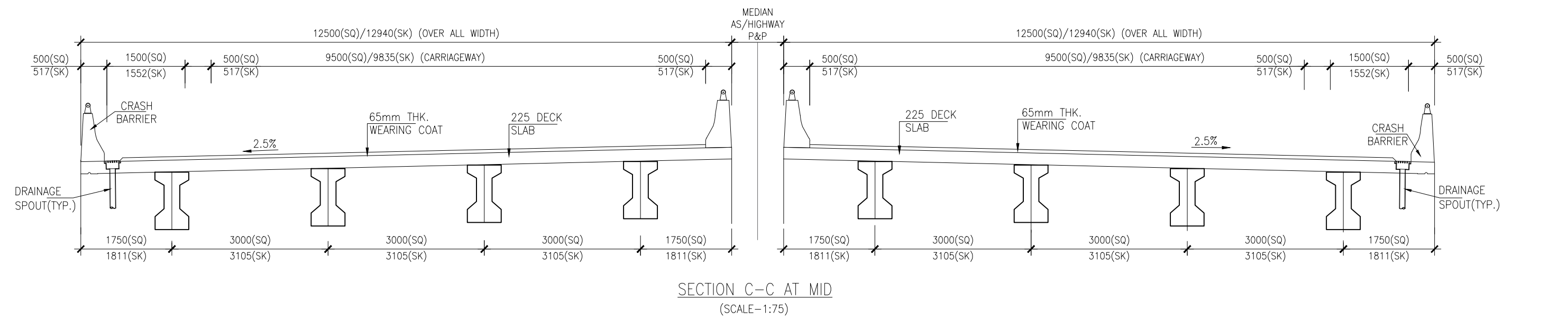
BEFORE STARTING UP THE EXECUTION VERIFY THE DIMENSION AND LEVELS. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE DESIGN CONSULTANT.

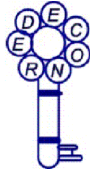
DETAILS OF STRUCTURE		
ITEM	EXISTING	PROPOSED
CHAINAGE	19+600	21+525
SPAN	1x9.50	1x15.529
TYPE	–	Minor Bridge
PROPOSAL	–	Re Construction
CONDITION	–	

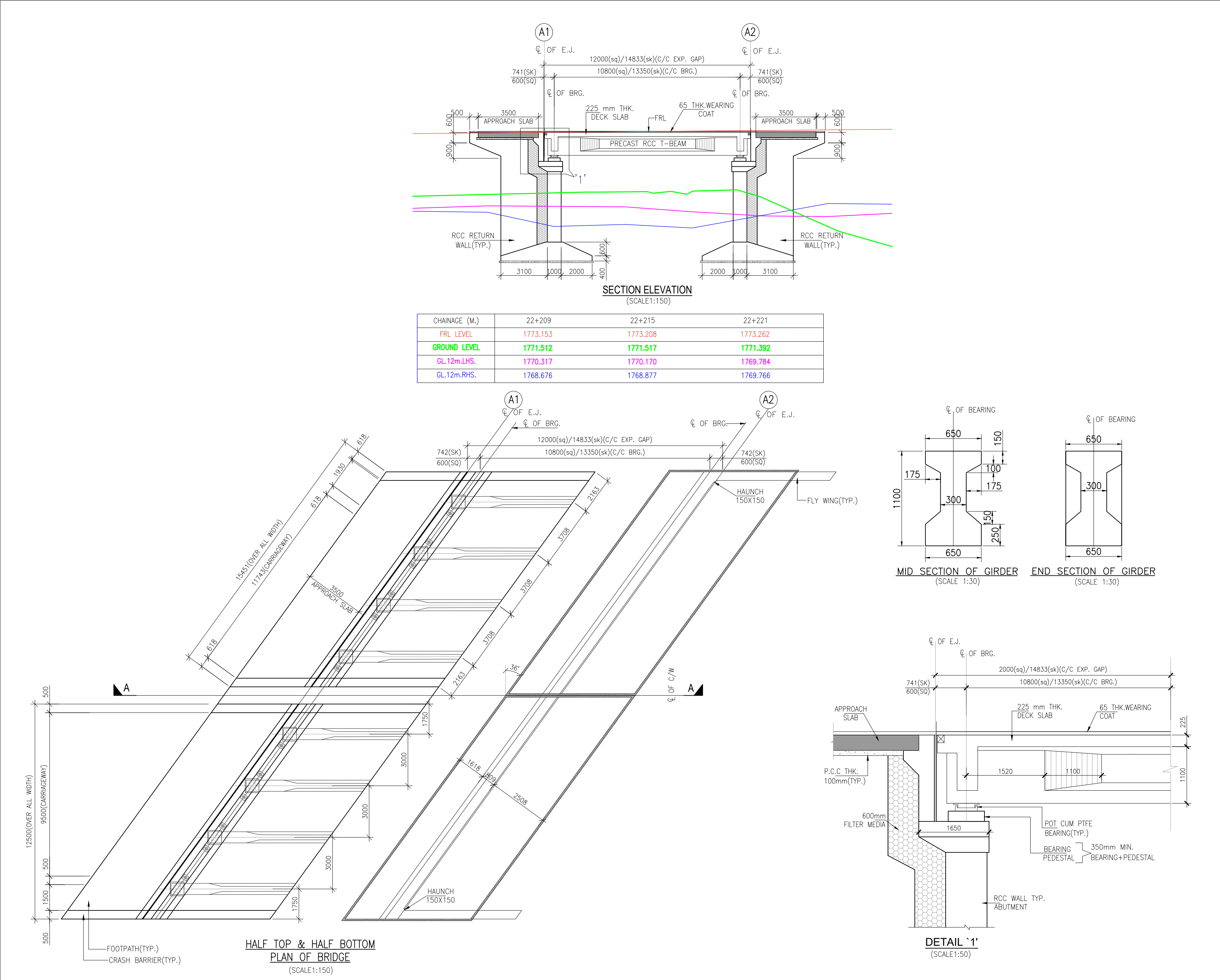


KEY PLAN

CLIENT:				CONSULTANT:				PROJECT:				DRAWING TITLE: GENERAL ARRANGEMENT DRAWING OF RCC T-BEAM AT CH-(21+525) (1X15.529)(15 SKEW)				SHEET No: 02 OF 02	
NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.				REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020				"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)				DRAWING No: NHIDCL/J&K/NH-501/MNB/CH-21+525/S-101				DATE: JAN.2024	
REV.				DATE				DESCRIPTION				DRAWN				SCALE: AS SHOWN	
ENG. DM				PAKAGE- 2 SEER HAMDAN TO PAHALGAM				G.N				A.R				PAPER SIZE: A2	
								VPS.				IRM.				REV: 0	



					CLIENT:		CONSULTANT:		PROJECT:	DRAWING TITLE: GENERAL ARRANGEMENT DRAWING OF SOLID SLAB AT CH-(21+525) (1X15.529)(15 SKEW)	SHEET No: 02 OF 02
									"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	DRAWING No: NHIDCL/J&K/NH-501/MNB/CH-21+525/S-101	DATE: JAN.2024
										DRAWN DESIGNED CHECKED APPROVED	SCALE: AS SHOWN
REV.	DATE	DESCRIPTION	ENG.	DM	NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.				PACKAGE- 2 SEER HAMDAN TO PAHALGAM	G.N A.R VPS. IRM.	PAPER SIZE: A2 REV: 0



NOTES:

1

ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS. UNLESS OTHERWISE MENTIONED ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED NO DIMENSION IS TO BE SCALED.

S.No.	DESCRIPTION	CONFORM	ADOPTED
a	CONDITION OF EXPOSURE	IRC-112:2020	MODERATE
b	SEISMIC ZONE IMPORTANCE FACTOR	IRC SP114:2020	ZONE – V 1.2
c	LIVE LOAD– CONSIDERED a. 3L CLASS–A b. CLASS A–2L PLUS 1LANE 70R W c. CLASS 70R TRACKED d. SPECIAL VEHICLE SV LOADING	IRC 6 :2017	CRITICAL OF a,b,c & d
d	SNOW LOAD OF 500 kg/cum	LIVE LOAD	ACCUMULATION
	i) COMBINE SNOW LOAD WITH LIVE LOAD	WHEELED VEH.	SNOW 250mm
	ii) COMBINE SNOW LOAD WITH LIVE LOAD	TRACKED VEH.	SNOW 500mm
	iii) COMBINE SNOW LOAD WITH LIVE LOAD	NIL	SNOW >500mm
NOTE:– MAXIMUM RECORDED SNOW ACCUMULATION AS PER SITE = 1200mm			

3

TECHNICAL SPECIFICATION TO BE FOLLOWED

S.No.	DESCRIPTION	CONFORM	ADOPTED
a	WEARING COURSE	MORT&H. SECTION 2702	65mm
b	BEARINGS AS PER APPROVED MANUFACTURER	IRC 83:2018 (PART III)	POT/PTEE
c	GRADE OF REBAR.	IS:1786.	Fe–500D
d	BACK FILL BEHIND ABUT. RETURN/WING/ RETAINING WALL	IRC 78 2014	Ø :30 DEG. ?:18kN/cum Δ:20DEG.
e	LAYING, COMPACTION & EXTENT OF BACKFILL BEHIND ABUTMENT & RETURN WALL	IRC 78 2014 APPENDIX:6	–
f	WEEP HOLES,SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUT.& RETURN WALL	IRC 78 2014 MORT&H. SECTION 2706	100mm DIA 1000 c/c V/H
g	WATER TO BE USED FOR CONCRETING, GROUTING &CURING	IRC–112–2020	–
h	DRAINAGE SPOUTS	MORT&H. SECTION 2705	–

4

DESIGN DETAILS:

TYPE OF STRUCTURE	DESIGNED HEIGHT (FRL–FDN)(m)	SOIL BEARING CAPACITY	TYPE OF FDN. STRATA
ABUTMENT	–	–	–

5

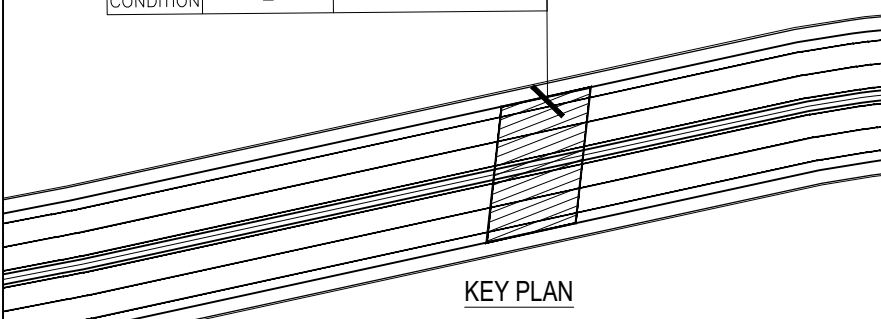
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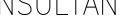
BEFORE STARTING UP THE EXECUTION VERIFY THE DIMENSION AND LEVELS. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE DESIGN CONSULTANT.

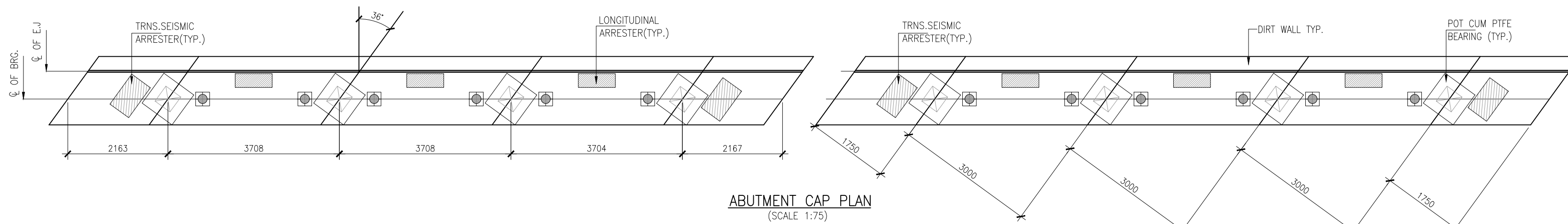
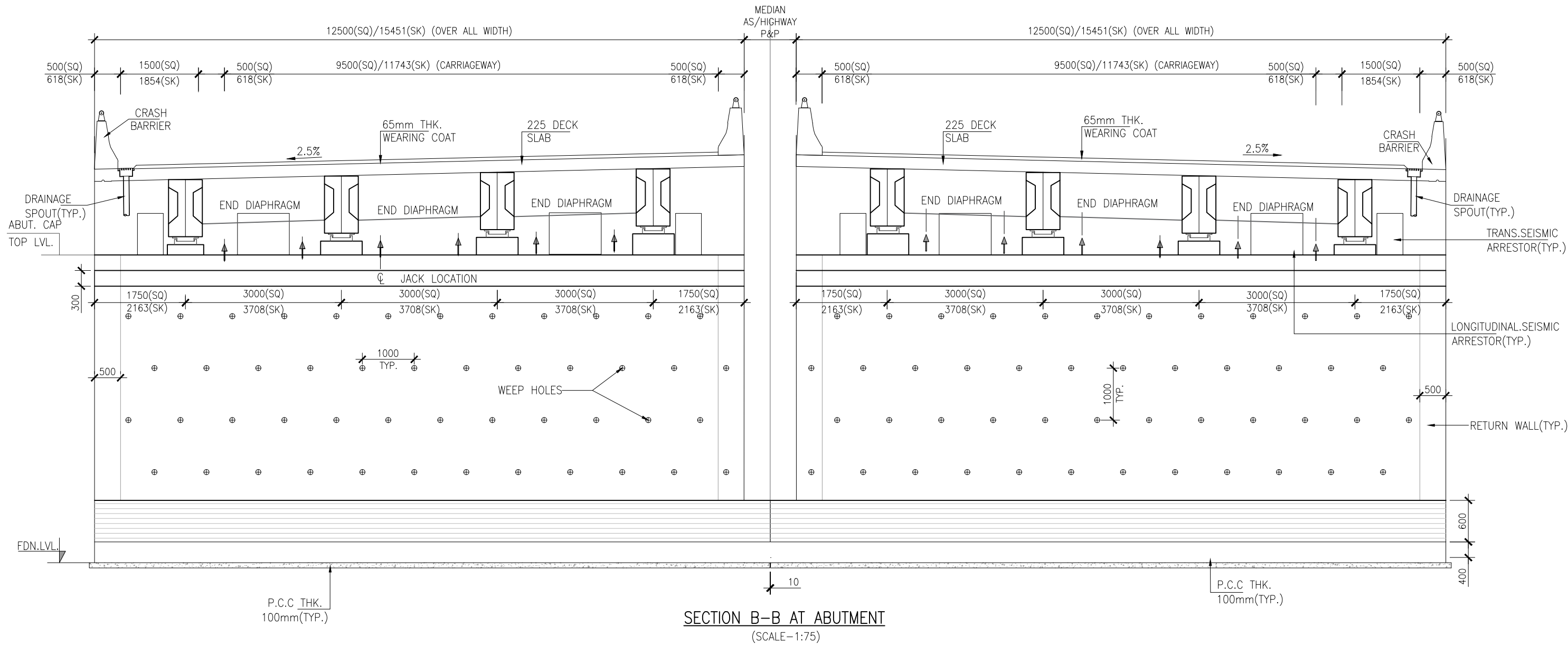
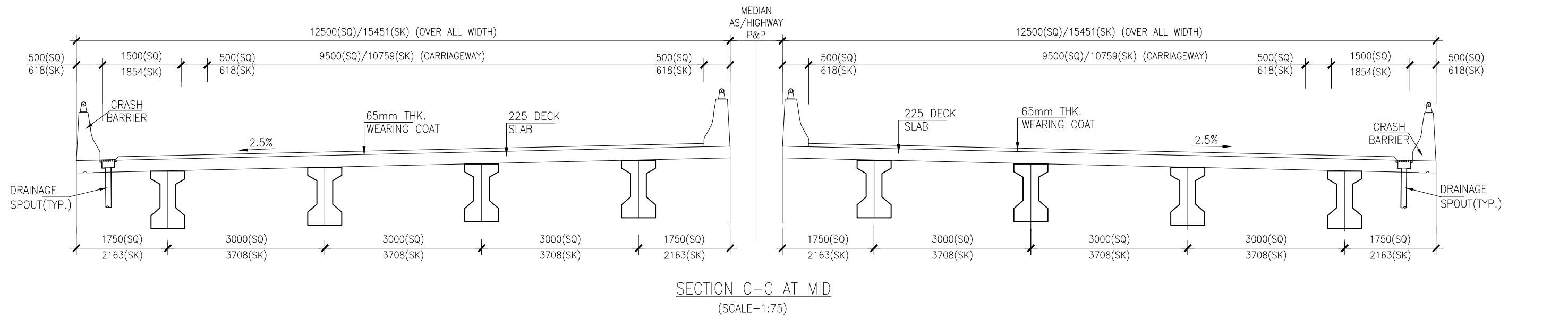
DETAILS OF STRUCTURE

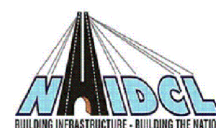
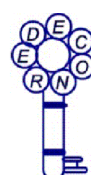
ITEM	EXISTING	PROPOSED
CHAINAGE	19+600	22+215
SPAN	1x9.50	1x12
TYPE	–	Minor Bridge
PROPOSAL	–	Re Construction
CONDITION	–	–

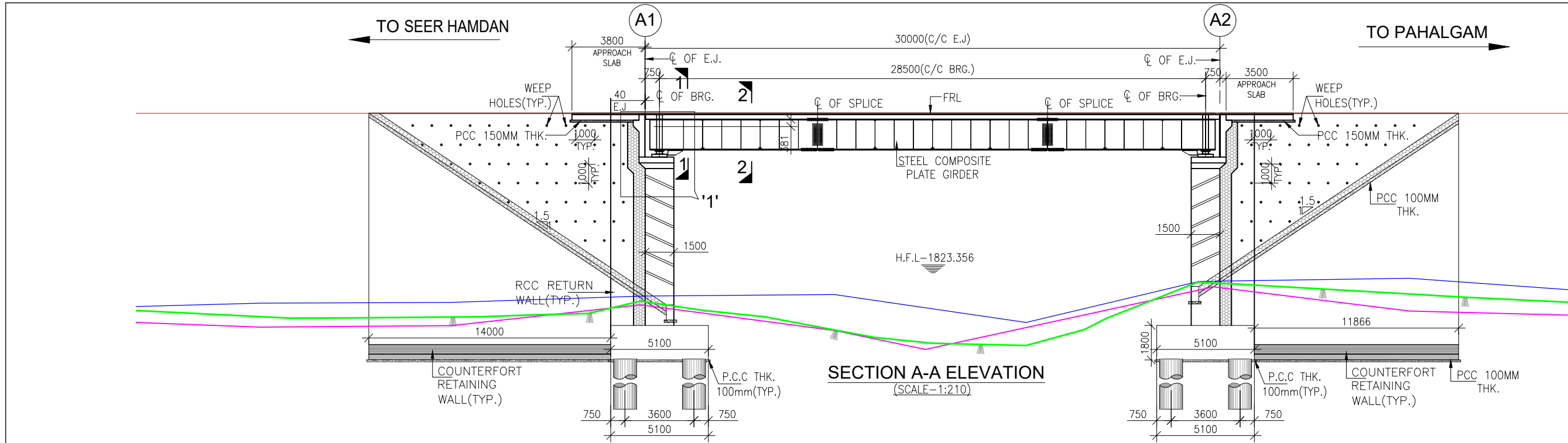


KEY PLAN

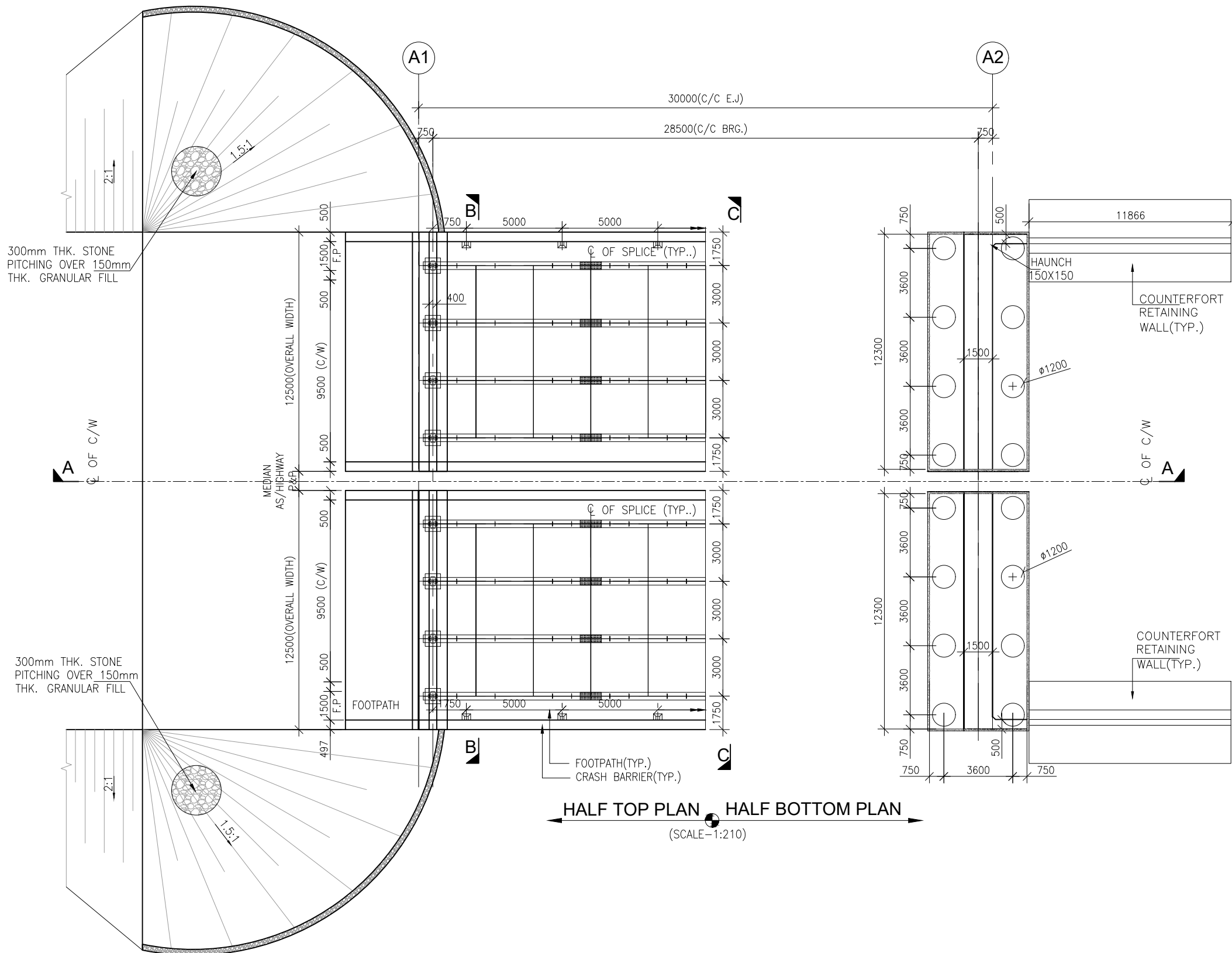
					CLIENT:		CONSULTANT:		REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT:	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	DRAWING TITLE: GENERAL ARRANGEMENT DRAWING OF SOLID SLAB AT CH-(22+215) (1X14.833)(36 SKEW)				SHEET No: 01 OF 02	
												DRAWING No: NHIDCL/J&K/NH-501/MNB/CH-22+215/S-101				DATE: JAN.2024	
												DRAWN DESIGNED CHECKED APPROVED				SCALE: AS SHOWN	
REV.	DATE	DESCRIPTION	ENG.	DM	NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.					PACKAGE- 2 SEER HAMDAN TO PAHALGAM		G.N	A.R	VPS.	IRM.	PAPER SIZE: A2	REV: 0



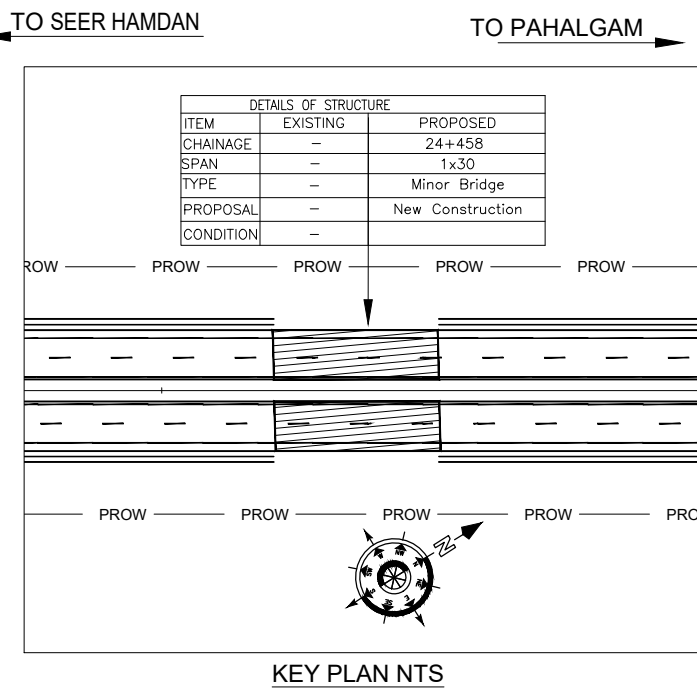
						CLIENT:		CONSULTANT:		PROJECT:	GENERAL ARRANGEMENT DRAWING OF SOLID SLAB AT CH-(22+215) (1X14.833)(36 SKEW)				SHEET No:	01 OF 02
										"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	DRAWING No: NHIDCL/J&K/NH-501/MNB/CH-22+215/S-101				DATE:	JAN.2024
											DRAWN	DESIGNED	CHECKED	APPROVED	SCALE:	AS SHOWN
REV.	DATE	DESCRIPTION	ENG.	DM		NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.				PACKAGE- 2 SEER HAMDAN TO PAHALGAM	G.N	A.R	VPS.	IRM.	PAPER SIZE: A2	REV: 0



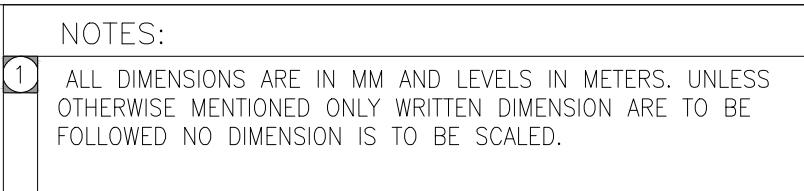
FORMATION LEVEL	1831.712	1831.712	1831.712
GROUND LEVEL CENTER	1821.479	1822.687	1822.687
GROUND LEFT AT 12 m	1820.373	1819.890	1821.801
GROUND RIGHT AT 12 m	1822.090	1821.136	1822.718
CHAINAGE	24+443	24+458	24+473



ABBREVIATION:-	
F.R.L	FINISHED ROAD LEVEL (FORMATION LEVEL)
FDN.	FOUNDING LEVEL
CL	CENTER LINE
LVL.	LEVEL
TYP.	TYPICAL
THK.	THICK
C/C	CENTER TO CENTER
GL	GROUND LEVEL
C/W	CARRIAGE WAY
EXP.JT	EXPANSION JOINT
BRG.	BEARING



NOTES:			
1	ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS. UNLESS OTHERWISE MENTIONED ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED NO DIMENSION IS TO BE SCALED.		
S.No.	DESCRIPTION	CONFORM	ADOPTED
a	CONDITION OF EXPOSURE	IRC-112:2020	MODERATE
b	SEISMIC ZONE IMPORTANCE FACTOR	IRC SP114:2020	ZONE – V 1.2
c	LIVE LOAD– CONSIDERED a. 3L CLASS A b. 1L 70R W LOADING PLUS 1LANE CLASS A c. SPECIAL VEH.LOADING	IRC 6 :2017	CRITICAL OF a,b&c
d	SNOW LOAD OF 500 kg/cum	LIVE LOAD	ACCUMULATION
i)	COMBINE SNOW LOAD WITH LIVE LOAD	WHEELED VEH.	SNOW 250mm
ii)	COMBINE SNOW LOAD WITH LIVE LOAD	TRACKED VEH.	SNOW 500mm
iii)	COMBINE SNOW LOAD WITH LIVE LOAD	NIL	SNOW >500mm
NOTE:– MAXIMUM RECORDED SNOW ACCUMULATION AS PER SITE = 1200mm			
2	HYDRAULIC DATA		
	HFL	m	1823.356
	DISCHARGE	CUMEC	269.520
	LBL	m	–
	VELOCITY	m/s	6.170
	VC(MIN.)	m	0.900
	MSL AT ABUTMENT	m	1816.360
3	GRADE & CLEAR COVER		
ELEMENT DESCRIPTION		MATERIAL	GRADE
COVER			
SUPER STRUCTURE			
STEEL PLATE GIRDER		HIGH STRENGTH STEEL(HTS)	E350
END DIAPHRAGMS			IS:2062
CROSS FRAMES			
BRACING		MILD STEEL	E250
CAST IN PLACE DECK SLAB		RCC	M35
			IS:2062 40
BOLTS		HSFG	10.9
			IS:4000
FOUNDATION		RCC	M35
			75
SUB STRUCTURE			
EARTH FACE		RCC	M35
OTHER FACE			75
			50
LEVELING COURSE		PCC	M15
			–
LEVELING COURSE (BELOW APPROACH SLAB)		PCC	M15
			–
CRASH BARRIER		RCC	M40
			50
APPROACH SLAB		RCC	M30
			50
4	TECHNICAL SPECIFICATION TO BE FOLLOWED		
S.No.	DESCRIPTION	CONFORM	ADOPTED
a	WEARING COURSE	MORT&H. SECTION 2702	65mm
b	EXPANSION JOINT	IRC SP:69–2011	STRIP SEAL
c	BEARINGS AS PER APPROVED MANUFACTURER	IRC 83:2018 (PART III)	POT/PTEE
d	GRADE OF REBARS.	IS:1786.	Fe–500D
e	BACK FILL BEHIND ABUT. RETURN/WING/RETAINING WALL	IRC 78 2014	Ø :30 DEG. Y:18kN/cum Δ:20DEG.
f	LAYING, COMPACTION & EXTENT OF BACKFILL BEHIND ABUTMENT & RETURN WALL	IRC 78 2014 APPENDIX:6	–
g	WEEP HOLES,SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUT.& RETURN WALL	IRC 78 2014 MORT&H. SECTION 2706	100mm DIA 1000 c/c V/H
h	DRAINAGE SPOUTS	MORT&H. SECTION 2705	–
i	WATER TO BE USED FOR CONCRETING, GROUTING & CURING	IRC–112–2020	–
5	SBC. REQUIRED (kN/Sqm.)	TYPE OF FDN. STRATA	REMARKS
	450	ROCKY (non erodible)	SBC SHALL BE ENSURED BEFORE COMMENCEMENT OF THE EXECUTION.
6	BEFORE COMMENCEMENT OF THE EXECUTION VERIFY ALL DIMENSIONS AND LEVELS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE NOTICE OF THE DESIGN CONSULTANT.		
DRAWING TITLE:			SHEET No: 01 OF 02
GENERAL ARRANGEMENT DRAWING AT CH-24+458 (SPAN 1 X30M) STEEL COMPOSITE PLATE GIRDER			DATE: JAN.2024
DRAWING No:			SCALE: AS SHOWN
DCL/J&K/NH-501/GAD/CH-24+458/S-101			
DRAWN	DESIGNED	CHECKED	APPROVED
G.N	A.R	VPS	IRM.
			PAPER SIZE:A2
			REV:R0



					CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	CONSULTANT:  REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT: "Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501) PACKAGE-2 SEER HAMDAN TO PAHALGAM	DRAWING TITLE: GENERAL ARRANGEMENT DRAWING AT CH-24+458 (SPAN 1 X30M) STEEL COMPOSITE PLATE GIRDER				SHEET No: 02 OF 02	
								DRAWING No: NHIDCL/J&K/NH-501/GAD/CH-24+458/S-101				DATE: JAN.2024	
								DRAWN DESIGNED CHECKED APPROVED				SCALE: AS SHOWN	
REV.	DATE	DESCRIPTION		ENG.	DM			G.N	A.R	VPS	IRM.	PAPER SIZE:A2	REV:R0

NOTES:

- 1 ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS. UNLESS OTHERWISE MENTIONED ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED NO DIMENSION IS TO BE SCALED.

S.No.	DESCRIPTION	CONFORM	ADOPTED
a	CONDITION OF EXPOSURE	IRC-112:2020	MODERATE
b	SEISMIC ZONE IMPORTANCE FACTOR	IRC SP114:2020	ZONE - V 1.2
c	LIVE LOAD- CONSIDERED a. 3L CLASS-A b. CLASS A-2L PLUS 1LANE 70R W c. CLASS 70R TRACKED d. SPECIAL VEHICLE SV LOADING	IRC 6 :2017	CRITICAL OF a,b
d	SNOW LOAD OF 500 kg/cum	LIVE LOAD	ACCUMULATION
i)	COMBINE SNOW LOAD WITH LIVE LOAD	WHEELED VEH.	SNOW 250mm
ii)	COMBINE SNOW LOAD WITH LIVE LOAD	TRACKED VEH.	SNOW 500mm
iii)	COMBINE SNOW LOAD WITH LIVE LOAD	NIL	SNOW >500mm
NOTE:- MAXIMUM RECORDED SNOW ACCUMULATION AS PER SITE = 1200mm			

2 HYDRAULIC DATA

HFL	m	1827.787
DISCHARGE	CUMEC	1.300
LBL	m	-
VELOCITY	m/s	3.470
VC(MIN.)	m	0.600
MSL.(ABUTMENT)	m	1827.230

3 TECHNICAL SPECIFICATION TO BE FOLLOWED

S.No.	DESCRIPTION	CONFORM	ADOPTED
a	WEARING COURSE	MORT&H. SECTION 2702	65mm
b	BEARINGS AS PER APPROVED MANUFACTURER	IRC 83:2018 (PART III)	POT/PTEE
c	GRADE OF REBARS.	IS:1786.	Fe-500D
d	BACK FILL BEHIND ABUT. RETURN/WING/ RETAINING WALL	IRC 78 2014	Ø :30 DEG. ?:18kN/cum Δ:20DEG.
e	LAYING, COMPACTION & EXTENT OF BACKFILL BEHIND ABUTMENT & RETURN WALL	IRC 78 2014 APPENDIX:6	-
f	WEEP HOLES,SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUT.& RETURN WALL	IRC 78 2014 MORT&H. SECTION 2706	100mm DIA 1000 c/c V/H
g	WATER TO BE USED FOR CONCRETING, GROUTING &CURING	IRC-112-2020	-
h	DRAINAGE SPOUTS	MORT&H. SECTION 2705	-

4 DESIGN DETAILS:

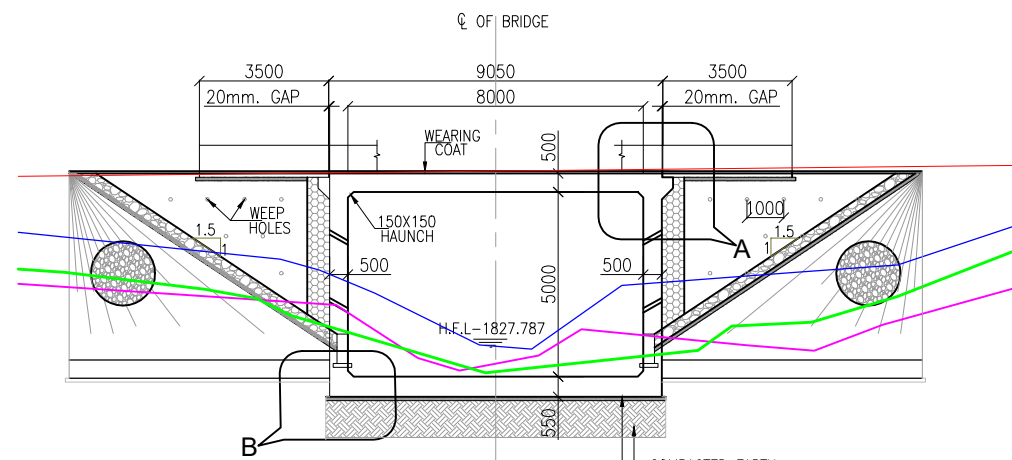
TYPE OF STRUCTURE	DESIGNED HEIGHT (FRL-FDN)(m)	SOIL BEARING CAPACITY	TYPE OF FDN. STRATA
ABUTMENT	-	-	-

5 SBC. SHALL BE ENSURED BEFORE COMMENCEMENT OF THE EXECUTION.

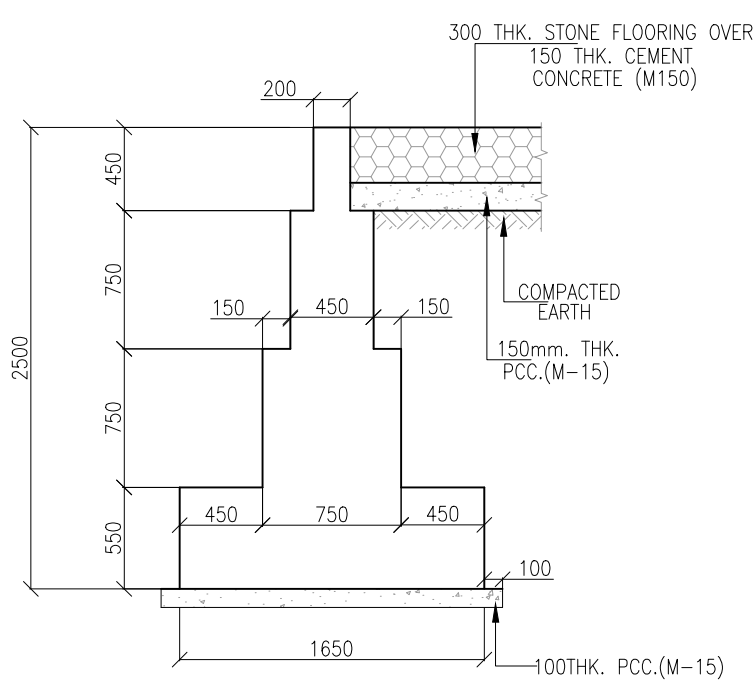
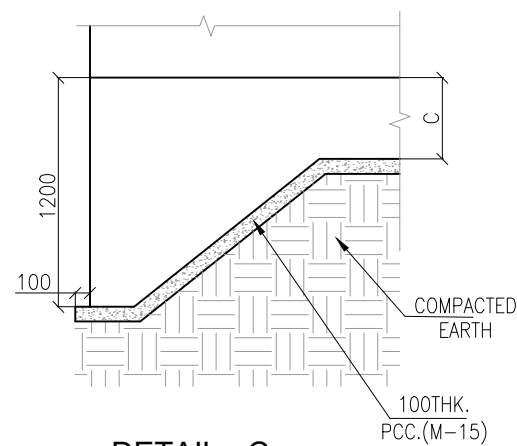
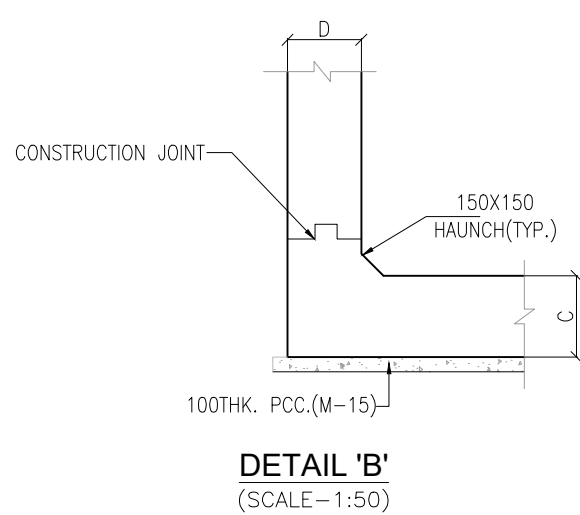
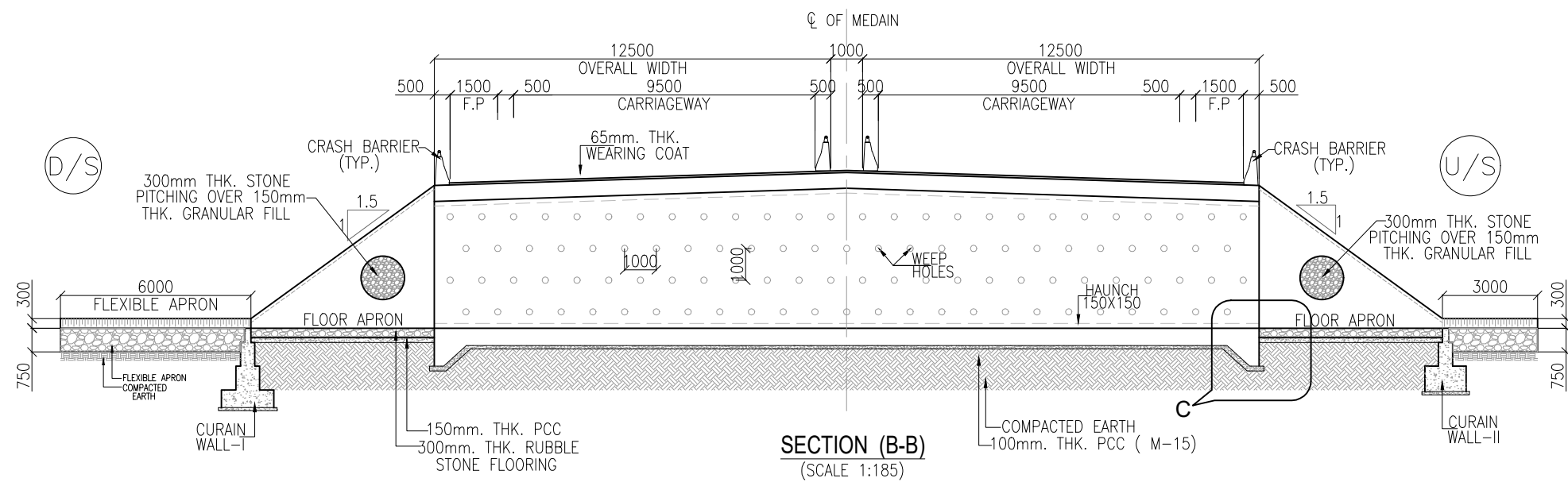
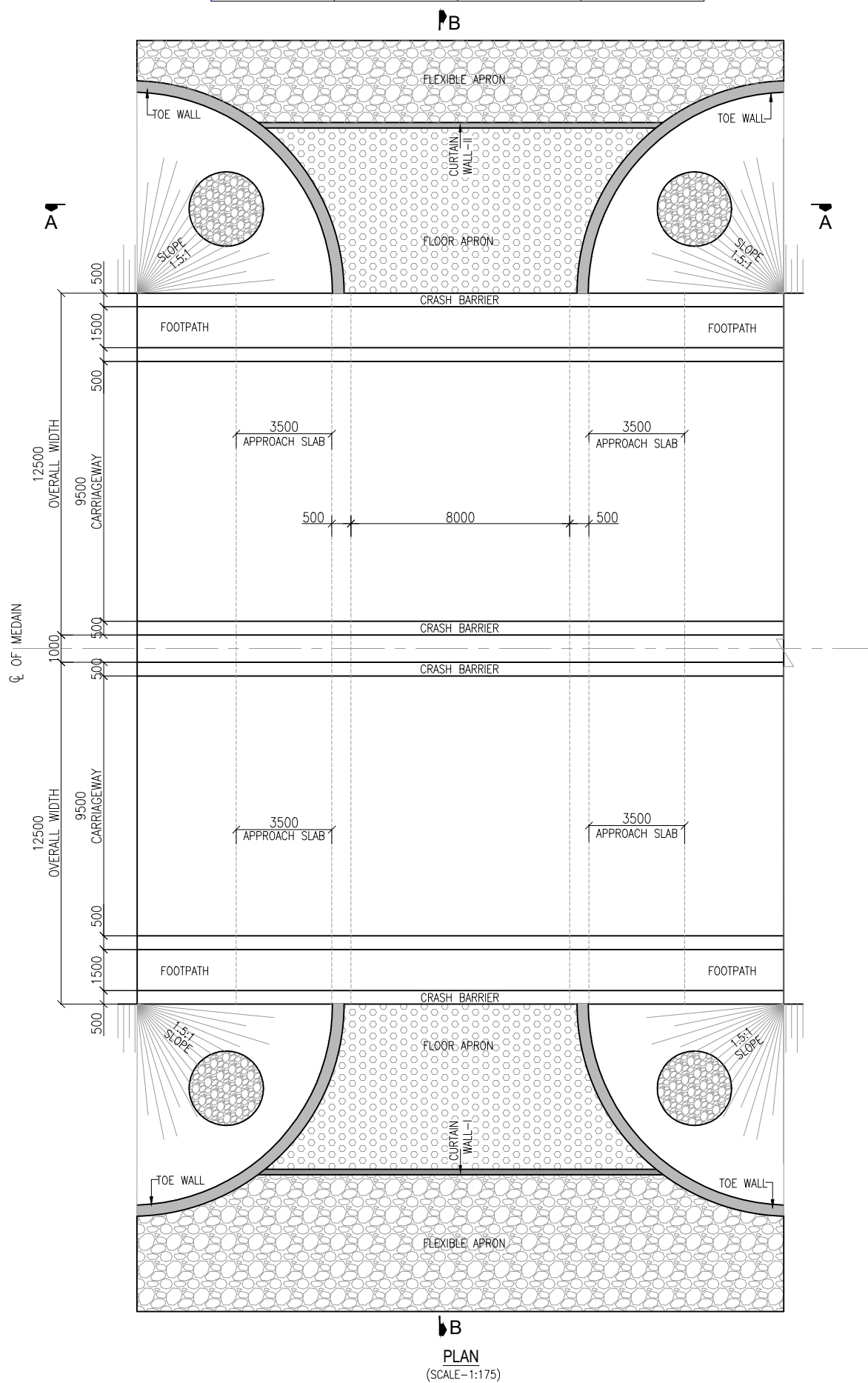
6 BEFORE STARTING UP THE EXECUTION VERIFY THE DIMENSION AND LEVELS. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE DESIGN CONSULTANT.

DETAILS OF STRUCTURE		
ITEM	EXISTING	PROPOSED
CHAINAGE	-	24+610
SPAN	-	1x8
TYPE	-	BOX
PROPOSAL	-	New Construction
CONDITION	-	-

24400

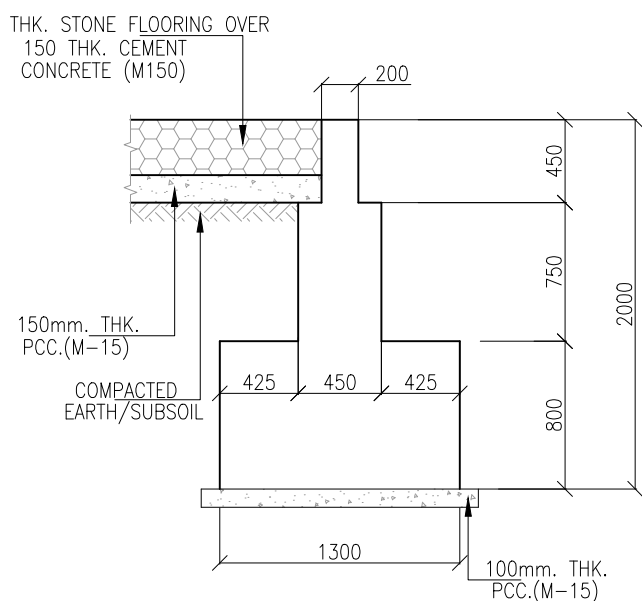
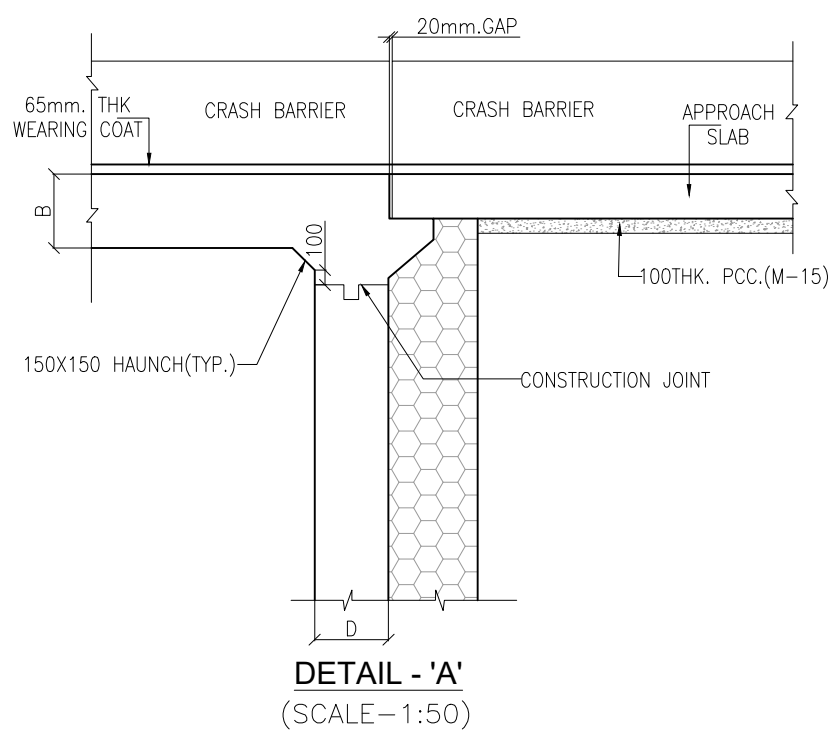


CHAINAGE (M.)	24+606	24+610	24+614
FRL LEVEL	1833.301	1836.344	1833.387
GROUND LEVEL	1827.899	1826.678	1827.259
GL.12m.LHS.	1828.501	1826.719	1827.888
GL.12m.RHS.	1829.331	1827.587	1829.280



TYPICAL CROSS SECTION OF CURTAIN WALL

TYPE-I

(DOWN STREAM SIDE)
(SCALE-1:40)

TYPICAL CROSS SECTION OF CURTAIN WALL

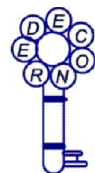
TYPE-II

(UP STREAM SIDE)
(SCALE-1:40)

CLIENT:

NATIONAL HIGHWAYS & INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.

CONSULTANT:

REDECON (I) Pvt. Ltd.
"REDECON HOUSE" E-49/4, Okhla
Phase-II,
New Delhi-110020

PROJECT:

"Consultancy Services for Preparation of Detailed Project
Report for 2 laning with paved shoulder in the UT of
Jammu & Kashmir and Ladakh".FROM
KHANABAL TO BALTAL(NH-501)

PACKAGE- 2 SEER HAMDAN TO PAHALGAM

DRAWING TITLE: GENERAL ARRANGEMENT DRAWING
OF BOX TYP. AT CH-(24+610)
(1X8m SPAN)

DRAWING No: NHIDCL/J&K/NH-501/MNB/CH-24+610/S-101

DRAWN DESIGNED CHECKED APPROVED

G.N A.R VPS. IRM.

SHEET No: 01 OF 01

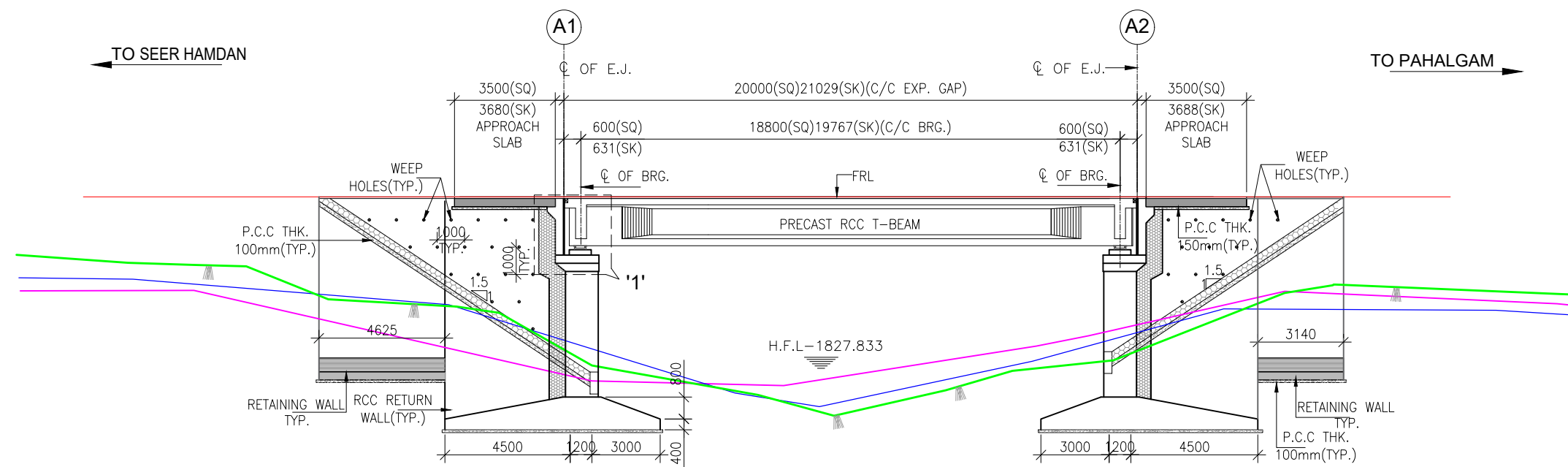
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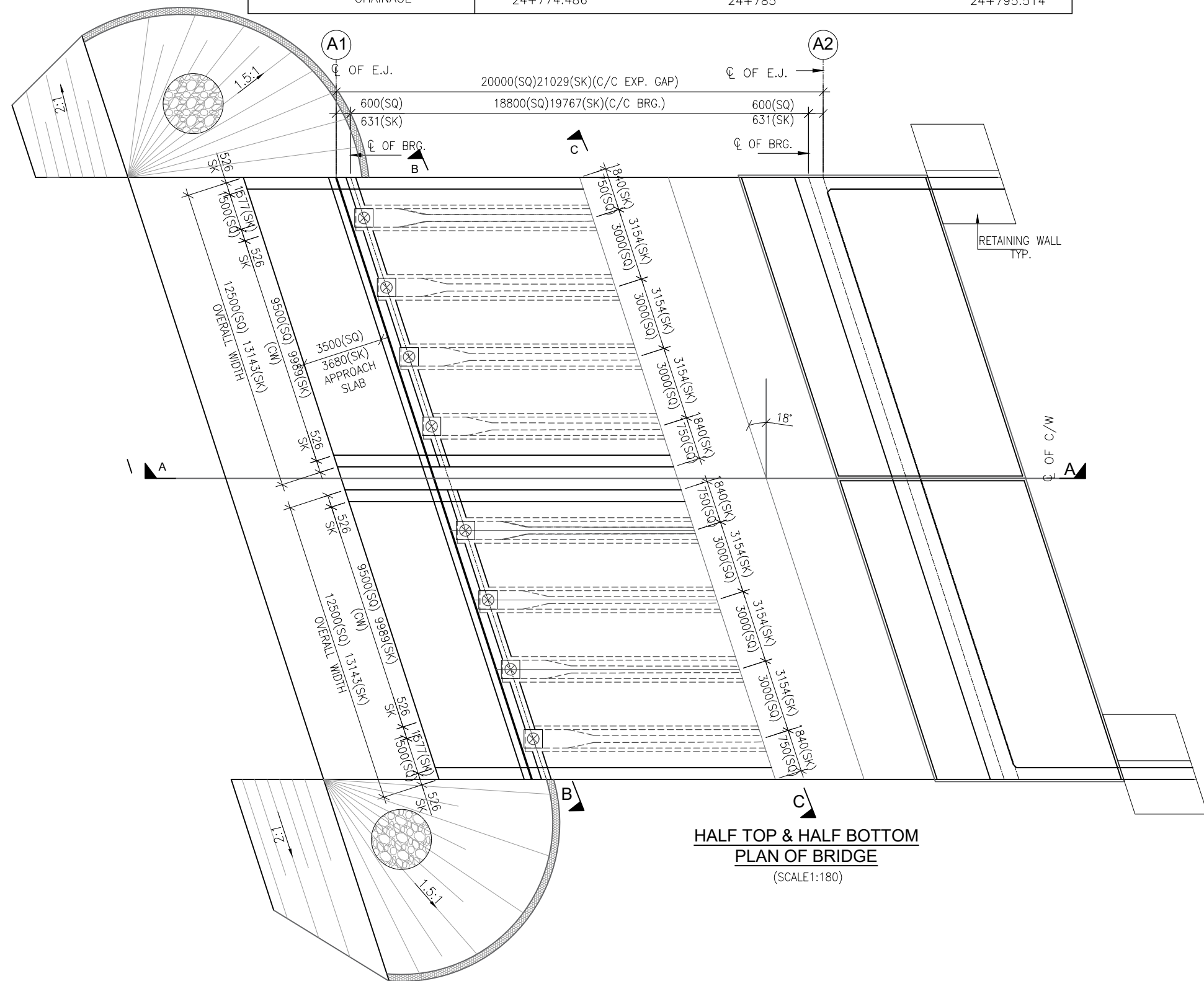
PAPER SIZE: A2

REV: 0

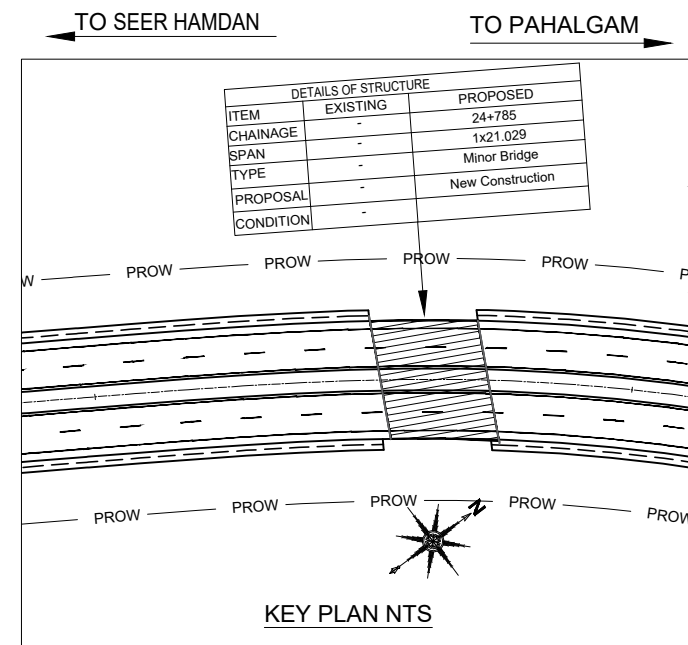
REV.	DATE	DESCRIPTION	ENG.	DM
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FORMATION LEVEL	1835.223	1835.223	1835.223
EXISTING GROUND AT CENTER	1829.391	1826.577	1829.391
GROUND LEFT AT 12 m	1825.316	1828.676	1830.699
GROUND RIGHT AT 12 m	1831.606	1827.981	1830.439
CHAINAGE	24+774.486	24+785	24+795.514



ABBREVIATION:-	
F.R.L	FINISHED ROAD LEVEL (FORMATION LEVEL)
FDN.	FOUNDING LEVEL
CL	CENTER LINE
LVL.	LEVEL
TYP.	TYPICAL
THK.	THICK
C/C	CENTER TO CENTER
GL.	GROUND LEVEL
C/W	CARRIAGE WAY
EXP.JT	EXPANSION JOINT
BRG.	BEARING



NOTES:

1 ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS. UNLESS OTHERWISE MENTIONED ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED NO DIMENSION IS TO BE SCALED.

S.No.	DESCRIPTION	CONFORM	ADOPTED
a	CONDITION OF EXPOSURE	IRC-112:2020	MODERATE
b	SEISMIC ZONE IMPORTANCE FACTOR	IRC SP114:2020	ZONE - V 1.2
c	LIVE LOAD- CONSIDERED i. 3L CLASS A ii. 1L CLASS A +1L 70R (W) iii. SPECIAL VEHICLE (SV) LOADING	IRC 6 :2017	CRITICAL OF i,ii & iii
d	SNOW LOAD OF 500 kg/cum	LIVE LOAD	ACCUMULATION
i)	COMBINE SNOW LOAD WITH LIVE LOAD	WHEELED VEH.	SNOW 250mm
ii)	COMBINE SNOW LOAD WITH LIVE LOAD	TRACKED VEH.	SNOW 500mm
iii)	COMBINE SNOW LOAD WITH LIVE LOAD	NIL	SNOW >500mm
NOTE:- MAXIMUM RECORDED SNOW ACCUMULATION AS PER SITE = 1200mm			

2 TECHNICAL SPECIFICATION TO BE FOLLOWED

S.No.	DESCRIPTION	CONFORM	ADOPTED
a	WEARING COURSE	MORT&H. SECTION 2702	65mm
b	BEARINGS AS PER APPROVED MANUFACTURER	IRC 83:2018 (PART III)	POT/PTEE
c	GRADE OF REBARS.	IS:1786.	Fe-500D
d	BACK FILL BEHIND ABUT. RETURN/WING/RETAINING WALL	IRC 78 2014	Ø :30 DEG. ±:18kN/cum Δ:20DEG.
e	LAYING, COMPACTION & EXTENT OF BACKFILL BEHIND ABUTMENT & RETURN WALL	IRC 78 2014 APPENDIX:6	-
f	WEEP HOLES,SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUT.& RETURN WALL	IRC 78 2014 MORT&H. SECTION 2706	100mm DIA 1000 c/c V/H
g	WATER TO BE USED FOR CONCRETING, GROUTING &CURING	IRC-112-2020	-
h	DRAINAGE SPOUTS	MORT&H. SECTION 2705	-

3 HYDRAULIC DATA

a	HFL	m	1827.833
b	DISCHARGE	CUMEC	1.550
c	LWL	m	-
d	VELOCITY	m/s	1.320
e	VC(MIN.)	m	0.600
f	MSL.(ABUTMENT)	m	1826.810

4 GRADE & CLEAR COVER

ELEMENT DESCRIPTION	MATERIAL	GRADE	COVER
SUPER STRUCTURE			
RCC GIRDER(CAST IN SITU)	RCC	M35	50
CAST IN PLACE SLAB	RCC	M35	40
FOUNDATION	RCC	M35	75
SUB STRUCTURE			
EARTH FACE	RCC	M35	75
OTHER FACE			50
LEVELING COURSE	PCC	M15	-
LEVELING COURSE (BELOW APPROACH SLAB)	PCC	M15	-
CRASH BARRIER	RCC	M40	50
APPROACH SLAB	RCC	M30	50

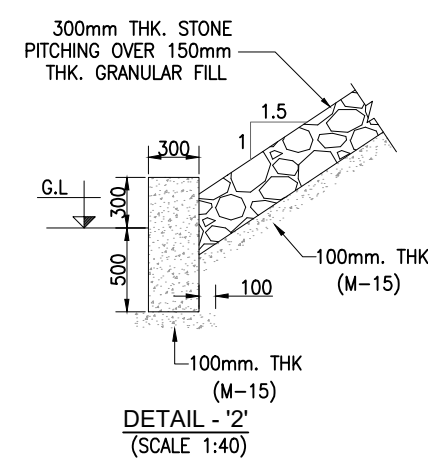
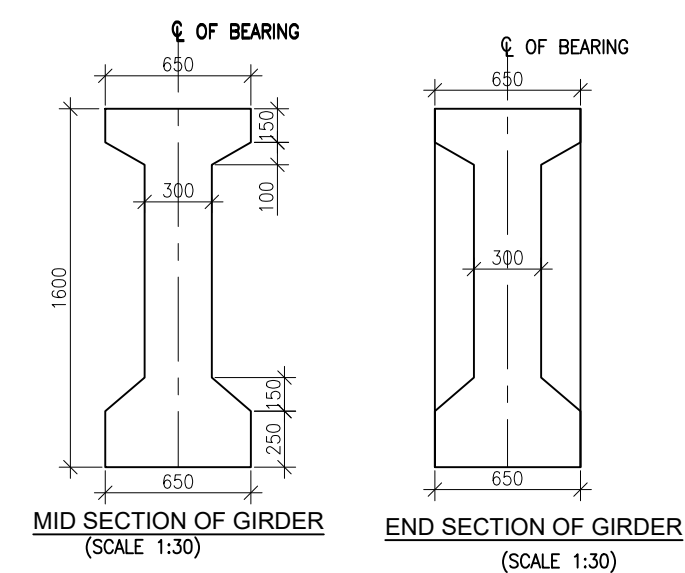
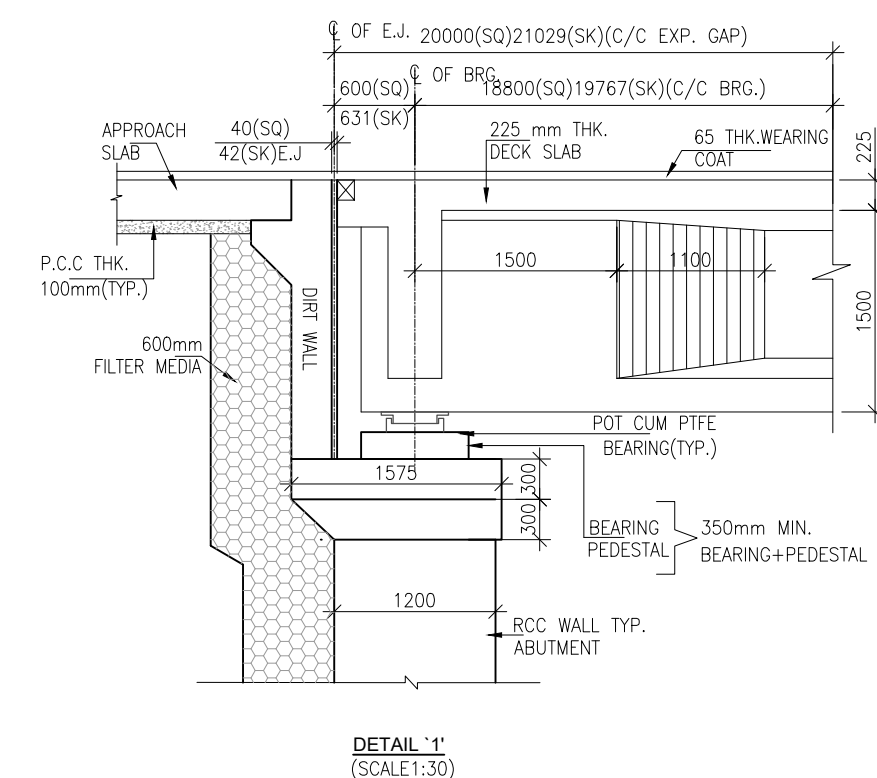
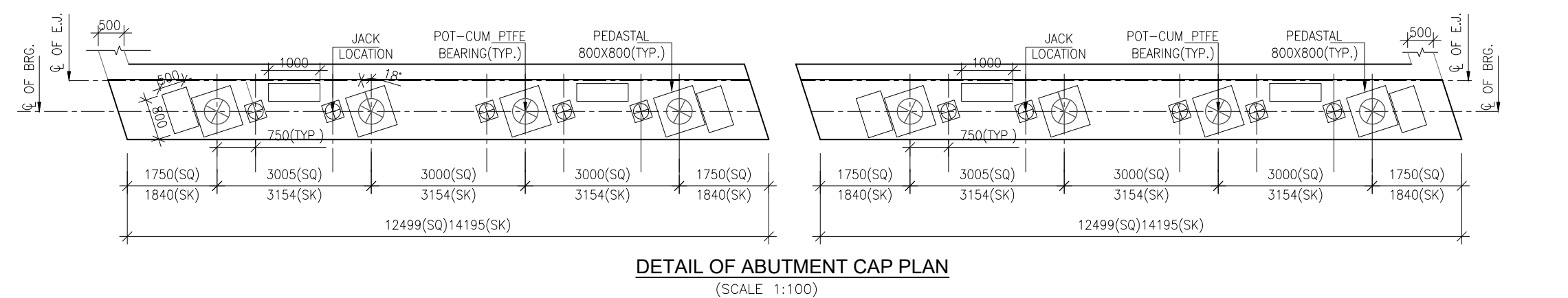
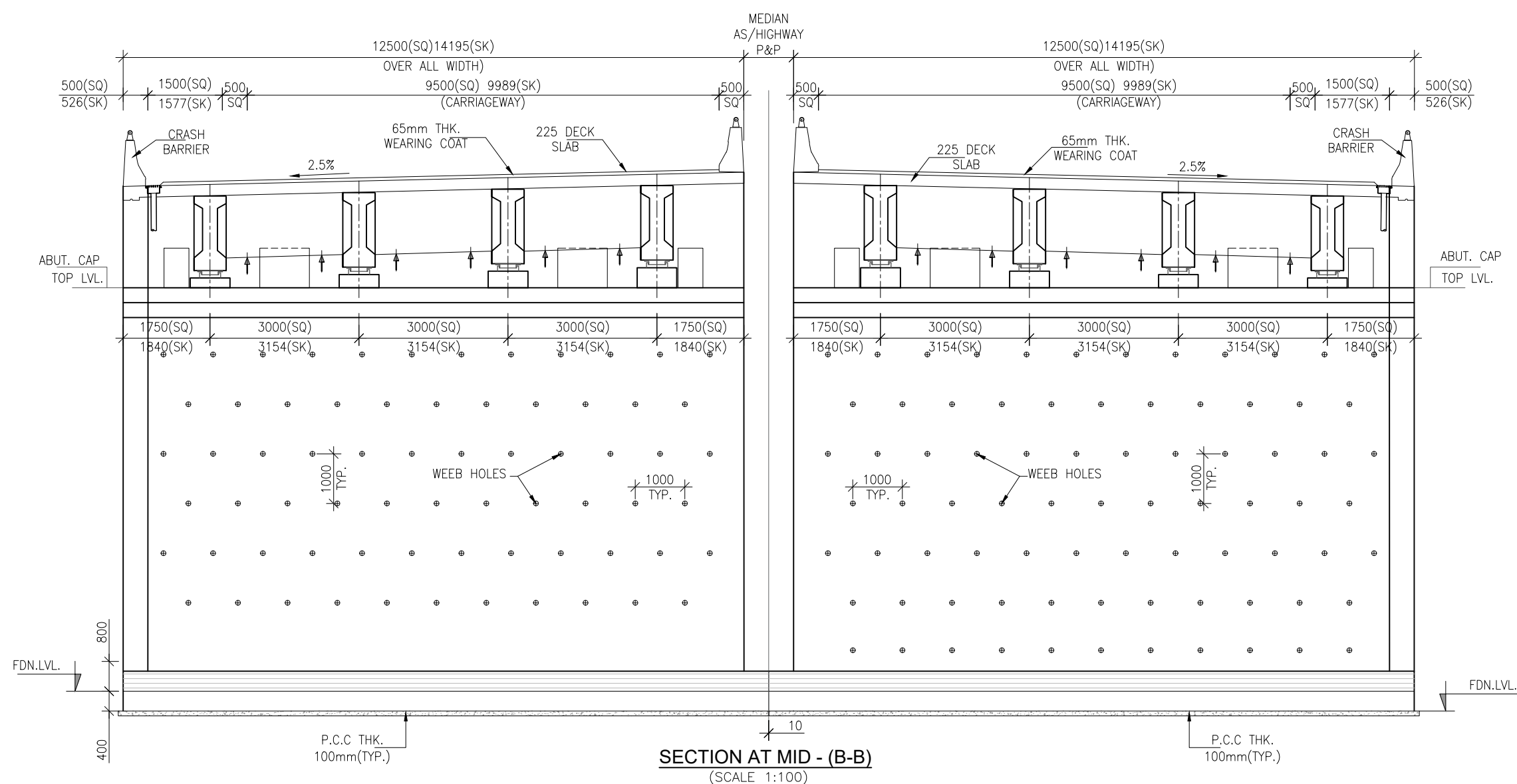
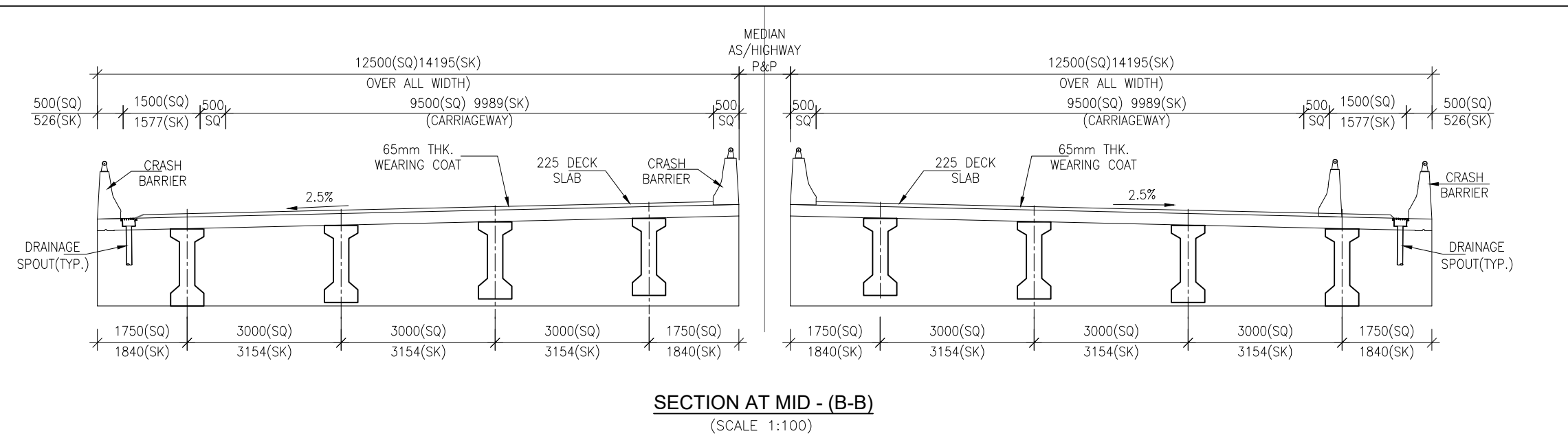
5 DESIGN DETAILS:

TYPE OF STRUCTURE	DESIGN HT. (FRL-FDN)(m)	SAFE BEARING CAPACITY	TYPE OF FDN. STRATA
ABUTMENT	7.56	346kN/Sq.m	ROCKY(non erodible)

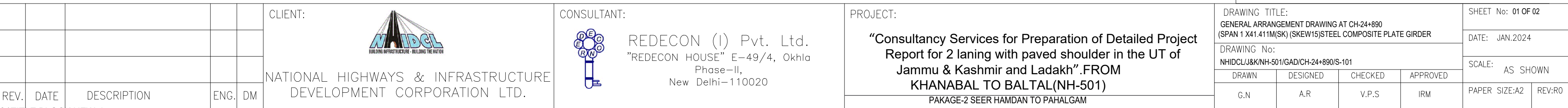
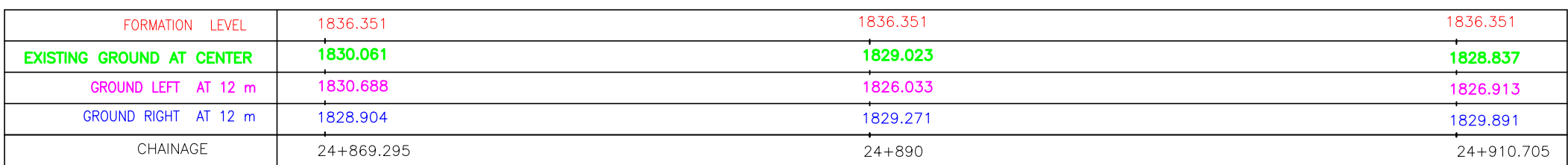
6 SBC. SHALL BE ENSURED BEFORE COMMENCEMENT OF THE EXECUTION.

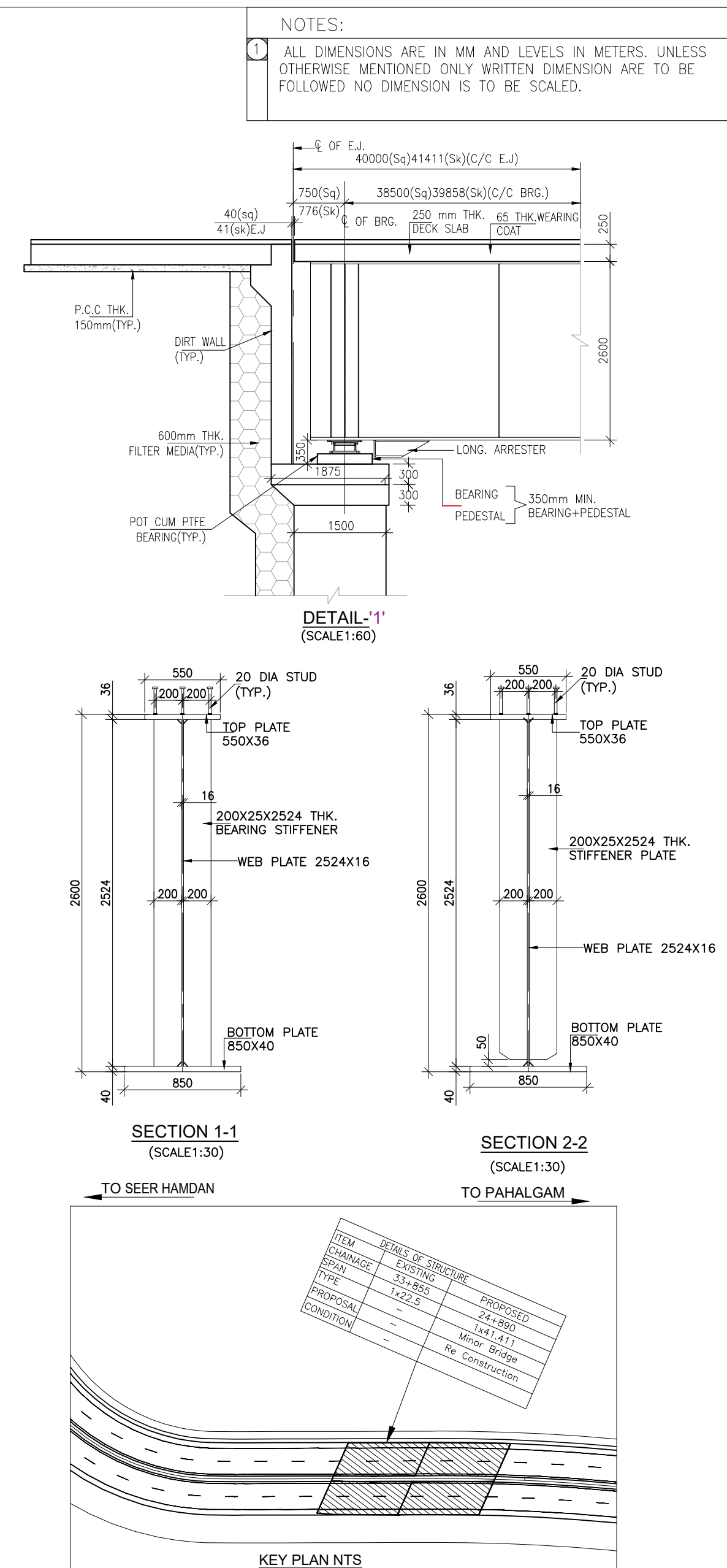
7 BEFORE STARTING UP THE EXECUTION VERIFY THE DIMENSION AND LEVELS. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE DESIGN CONSULTANT.

REV.	DATE	DESCRIPTION	ENG.	DM	CLIENT:	CONSULTANT:	PROJECT:	DRAWING TITLE:	SHEET No:
					NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	GENERAL ARRANGEMENT DRAWING AT CH-24+785 (SKEW18)(SPAN 1X21.029M(SK) RCC T-BEAM	01 OF 02
								DRAWING No: NHIDCL/J&K/NH-501/GAD/CH-24+785/S-101	DATE: JAN.2024
								DRAWN: G.N. DESIGNED: A.R. CHECKED: VPS. APPROVED: IRM.	SCALE: AS SHOWN
								PAPER SIZE:A2	REV:R0

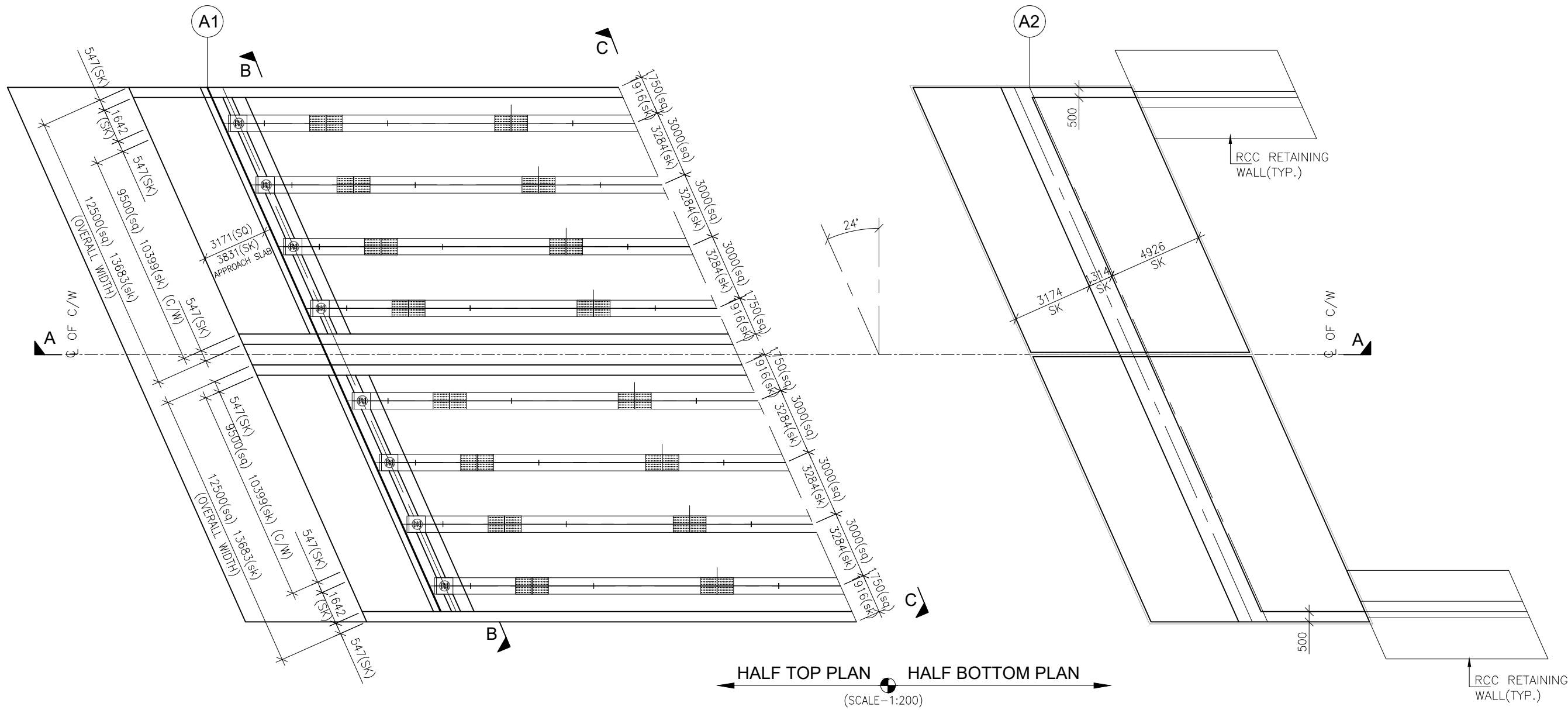
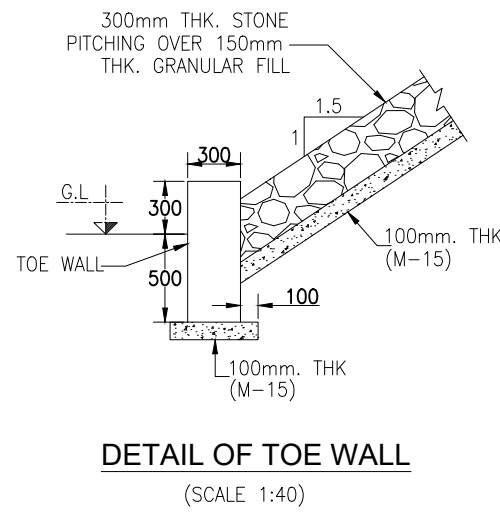


REV.	DATE	DESCRIPTION	ENG.	DM	CLIENT:	CONSULTANT:	PROJECT:	DRAWING TITLE: GENERAL ARRANGEMENT DRAWING AT CH-24+785 (SKEW18)(SPAN 1X21.029M(SK) RCC T-BEAM	SHEET No: 02 OF 02
					NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	DRAWING No: NHIDCL/J&K/NH-501/GAD/CH-24+785/S-101	DATE: JAN.2024
							PAKAGE-2 SEER HAMDAN TO PAHALGAM	DRAWN: G.N. DESIGNED: A.R. CHECKED: VPS. APPROVED: IRM.	SCALE: AS SHOWN
								PAPER SIZE:A2	REV:R0



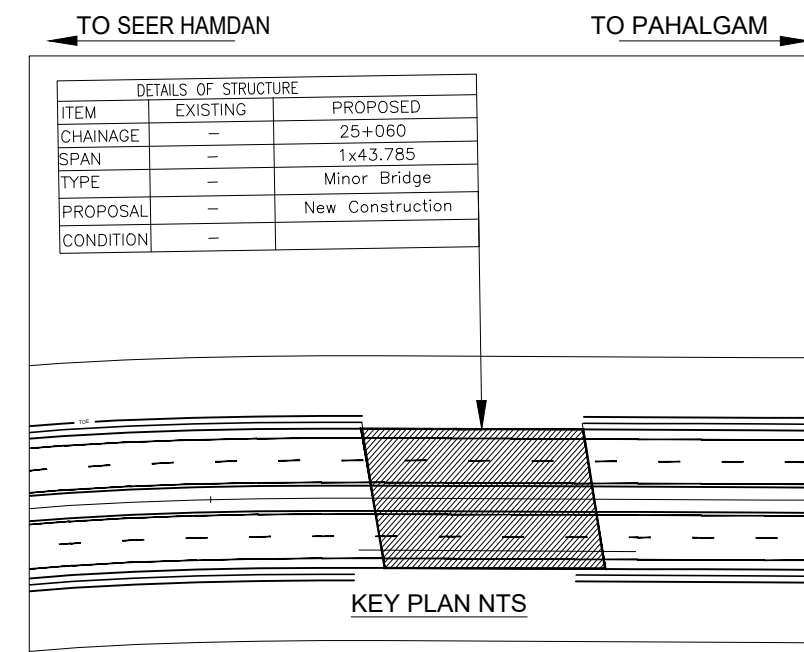
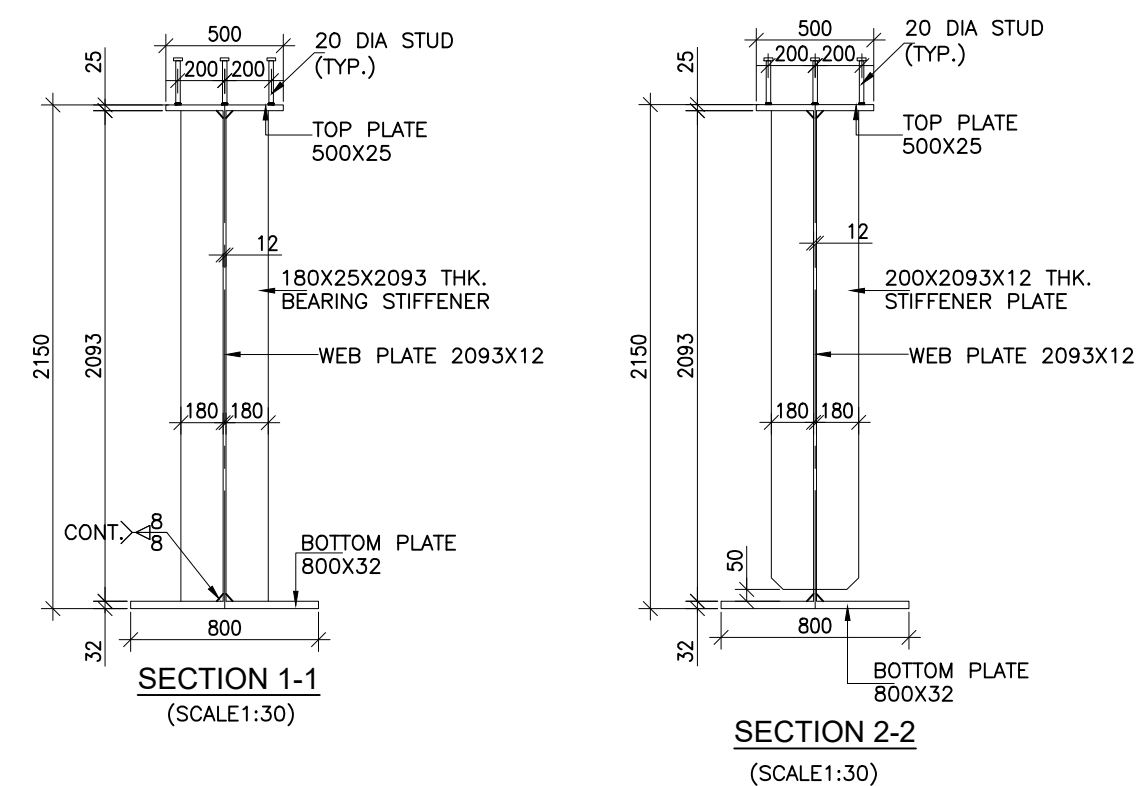
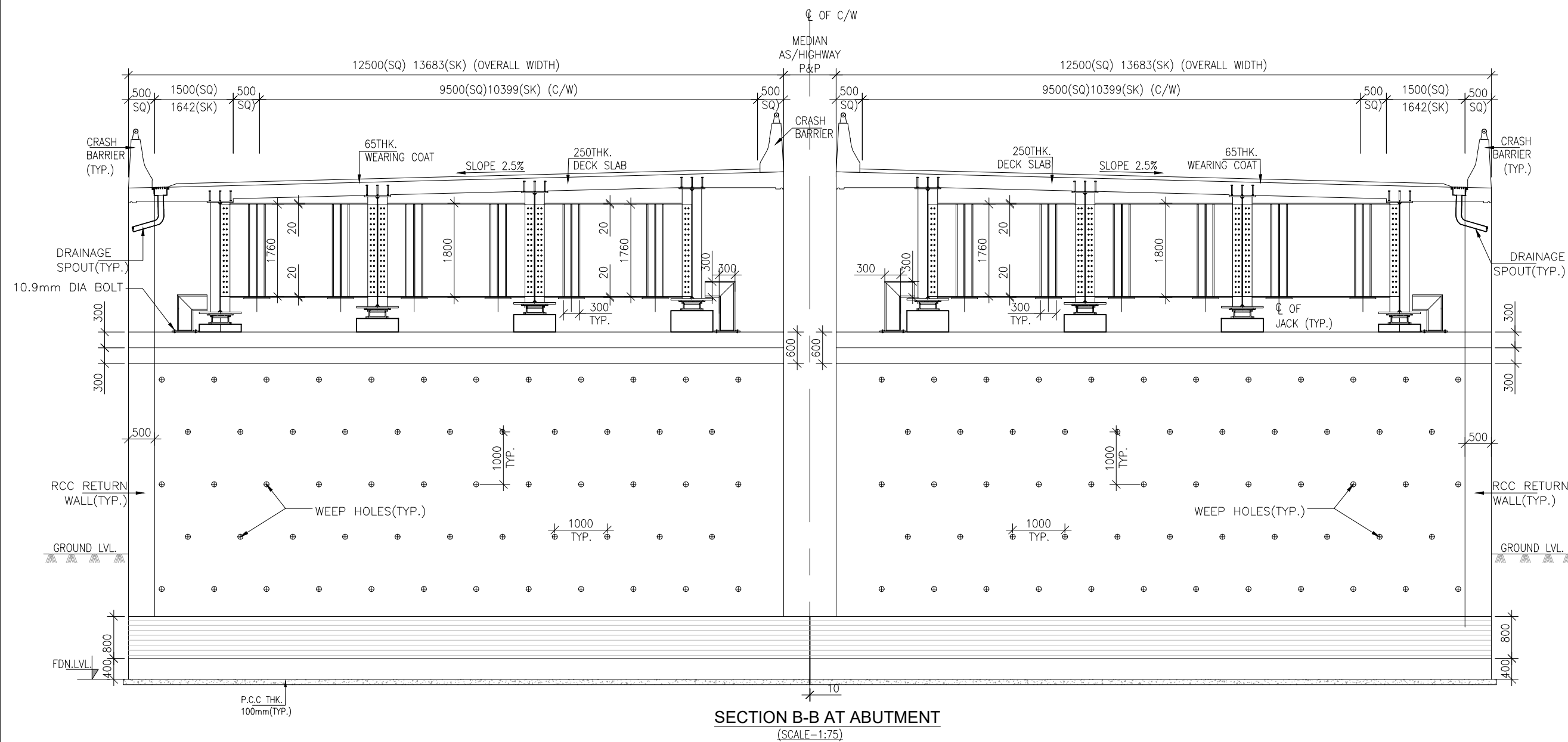
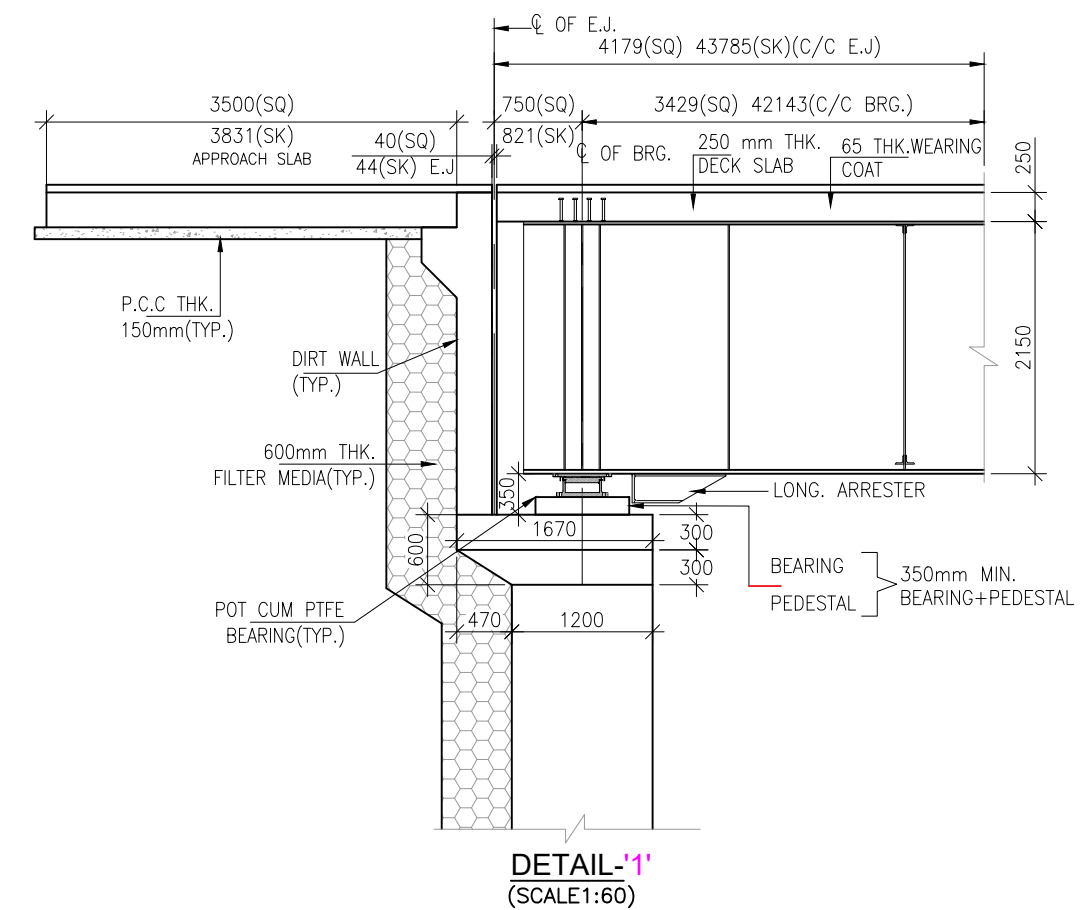
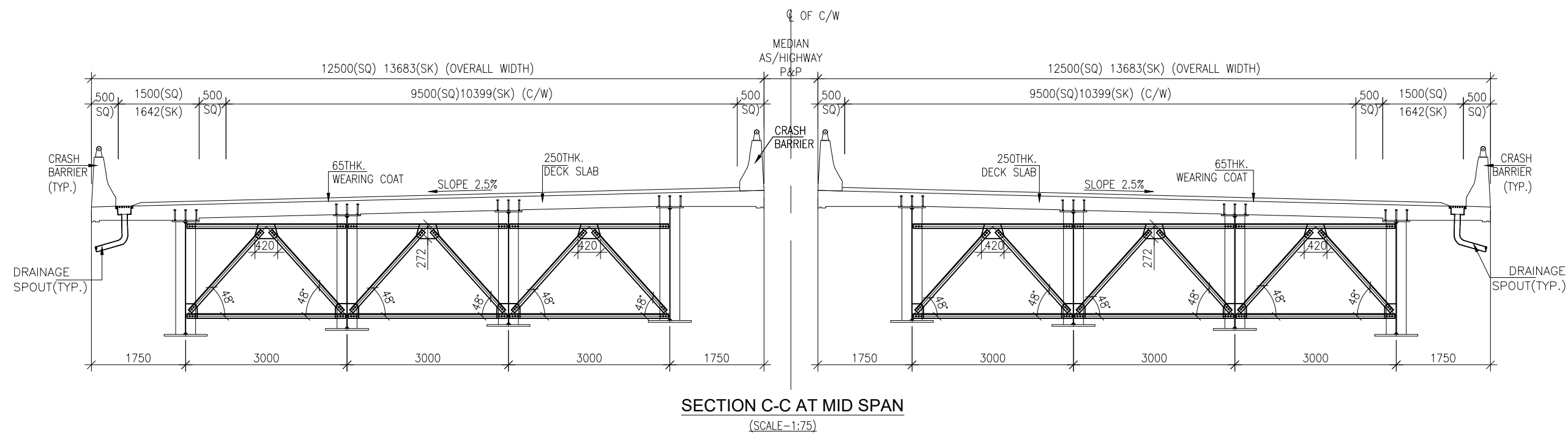


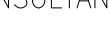
					CLIENT:	 NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	CONSULTANT:	 REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT:	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501) PACKAGE-2 SEER HAMDAN TO PAHALGAM	DRAWING TITLE: GENERAL ARRANGEMENT DRAWING AT CH-24+890 (SPAN 1 X41.411M(SK) (SKEW15)STEEL COMPOSITE PLATE GIRDER)				SHEET No: 02 OF 02	
													DRAWING No: NHIDCL/J&KNH-501/GAD/CH-24+890/S-101	DATE: JAN.2024		
REV.	DATE	DESCRIPTION	ENG.	DM										DRAWN	DESIGNED	CHECKED
											G.N	A.R	V.P.S	IRM	PAPER SIZE:A2	REV:R0

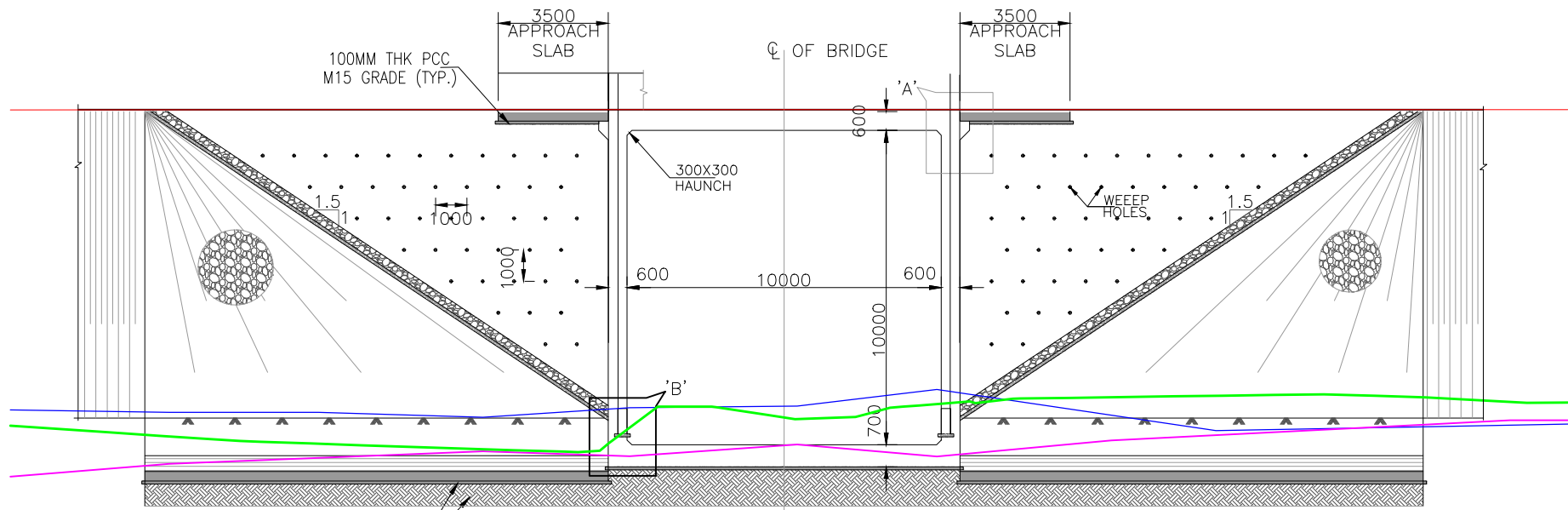


					CLIENT:		CONSULTANT:		REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT:	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	DRAWING TITLE: GENERAL ARRANGEMENT DRAWING AT CH-25+060 (SPAN 1 X43.785M(SK) (SKEW 24) STEEL COMPOSITE PLATE GIRDER)				SHEET No: 01 OF 02			
					NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.							DRAWING No: NHIDCL/J&K/NH-501/GAD/CH-25+060/S-101				DATE: JAN.2024			
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													G.N	A.R	V.P.S	IRM			

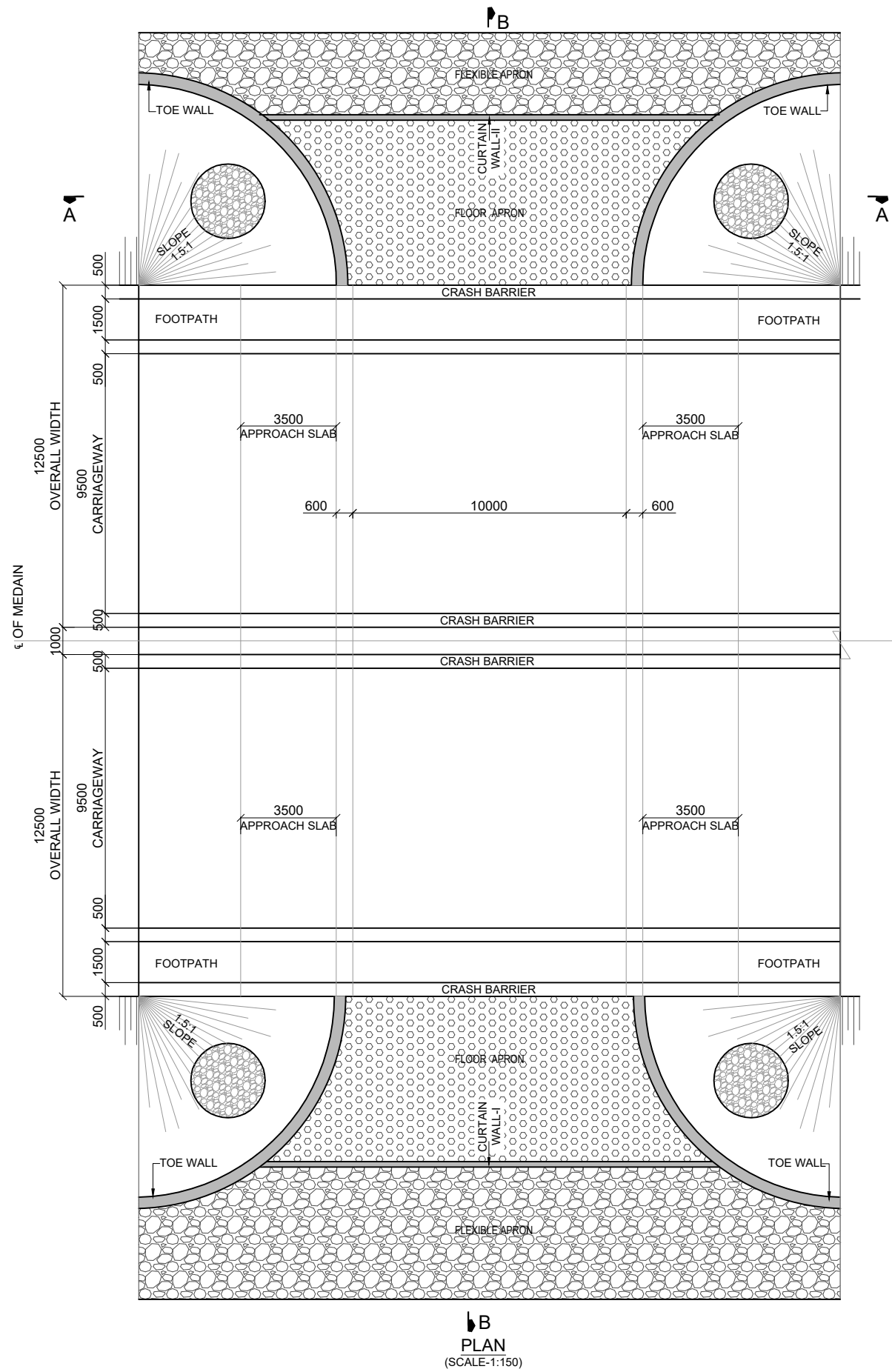
NOTES:
1 ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS. UNLESS OTHERWISE MENTIONED ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED NO DIMENSION IS TO BE SCALED.



						CLIENT:		CONSULTANT:		REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT:	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	DRAWING TITLE: GENERAL ARRANGEMENT DRAWING AT CH-25+060 (SPAN 1 X43.785M(SK) (SKEW 24) STEEL COMPOSITE PLATE GIRDER				SHEET No: 02 OF 02		
						NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.						"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	DRAWING No: NHIDCL/J&K/NH-501/GAD/CH-25+060/S-101				DATE: JAN.2024		
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REV.	DATE	DESCRIPTION	ENG.	DM														DRAWN	DESIGNED
											PACKAGE-2 SEER HAMDAN TO PAHALGAM		G.N	A.R	V.P.S	IRM			

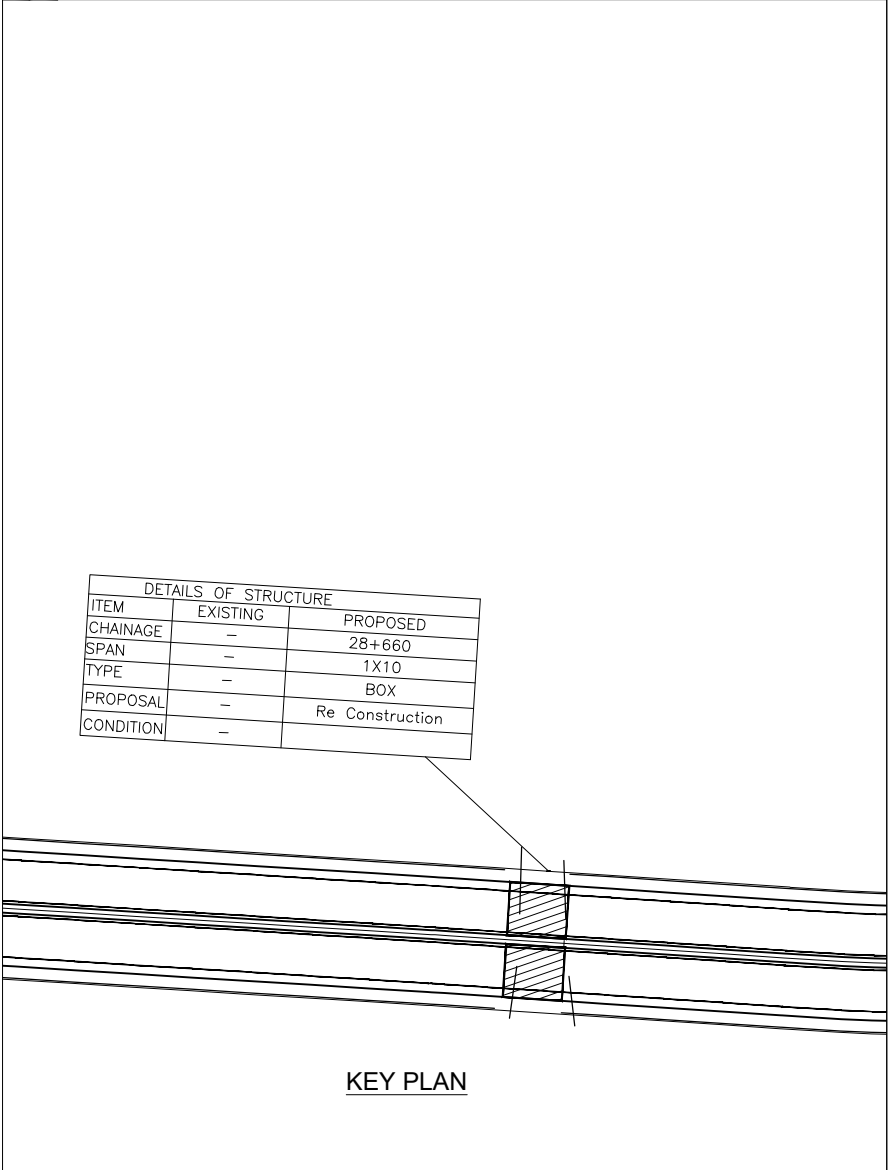


CHAINAGE (M.)	28+655	28+660	28+665
FRL LEVEL	1880.479	1880.479	1880.479
GROUND LEVEL	1870.298	1870.682	1871.120
GL.12m.LHS.	1869.454	1869.797	1869.454
GL.12m.RHS.	1870.986	1871.038	1871.553



NOTES:

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- TECHNICAL SPECIFICATION TO BE FOLLOWED
- DESIGN DETAILS:
- SBC. SHALL BE ENSURED BEFORE COMMENCEMENT OF THE EXECUTION.
- BEFORE STARTING UP THE EXECUTION VERIFY THE DIMENSION AND LEVELS. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE DESIGN CONSULTANT.

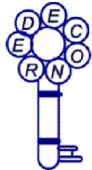


CLIENT:



NATIONAL HIGHWAYS & INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.

CONSULTANT:



REDECON (I) Pvt. Ltd.
REDECON HOUSE E-49/4, Okhla
Phase-II,
New Delhi-110020

PROJECT:

Consultancy Services for Preparation of Detailed Project
Report for 2 laning with paved shoulder in the UT of
Jammu & Kashmir and Ladakh."
FROM KHANABAL TO BALTAL(NH-501)

PACKAGE-2 SEER HAMDAN TO PAHALGAM

DRAWING TITLE:

GENERAL ARRANGEMENT DRAWING
OF BOX TYP. AT CH-(28+660)
(1X10m SPAN)

DRAWING No:

NHIDCL/J&K/NH-501/MNB/CH-28+660/S-101

DRG. BY

DESIGNED

CHECKED

APPROVED

G.N

A.R

VPS.

IRM.

SHEET No:

01 OF 02

DATE:

JAN.2024

SCALE:

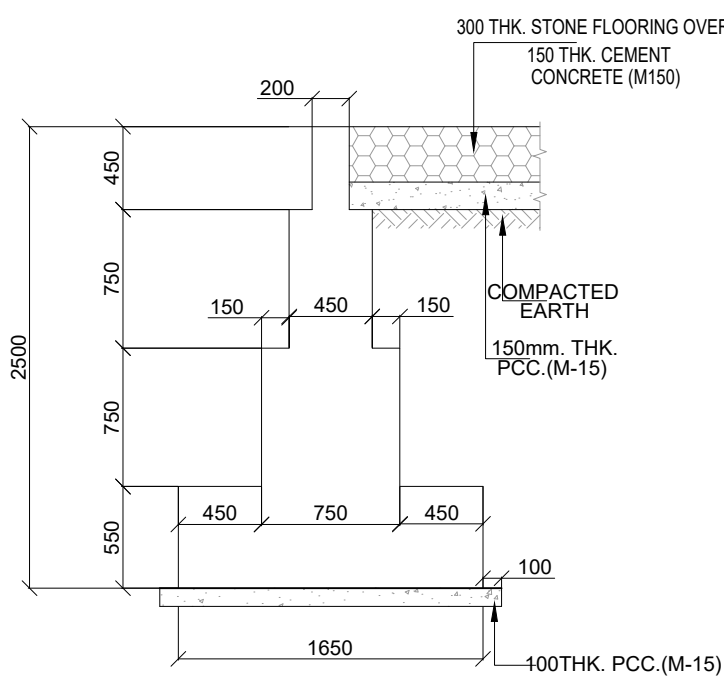
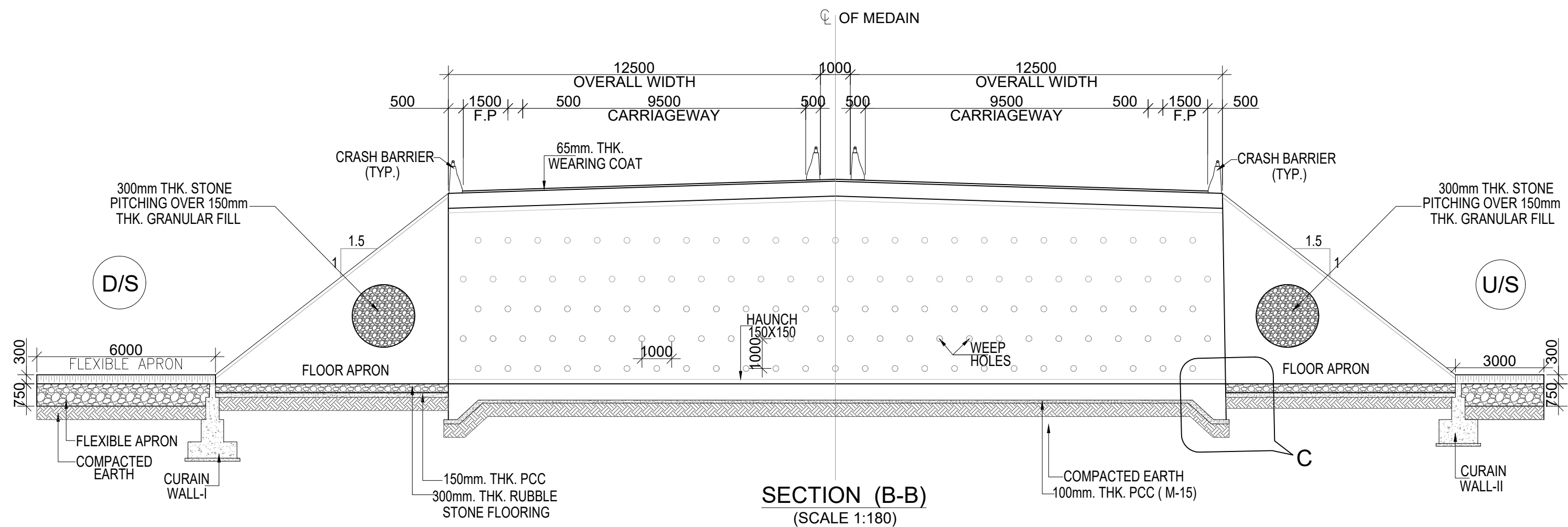
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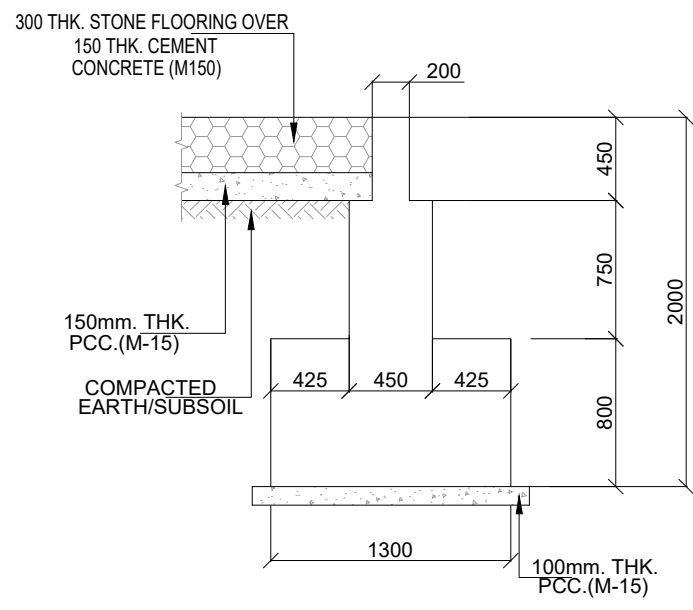
REV:

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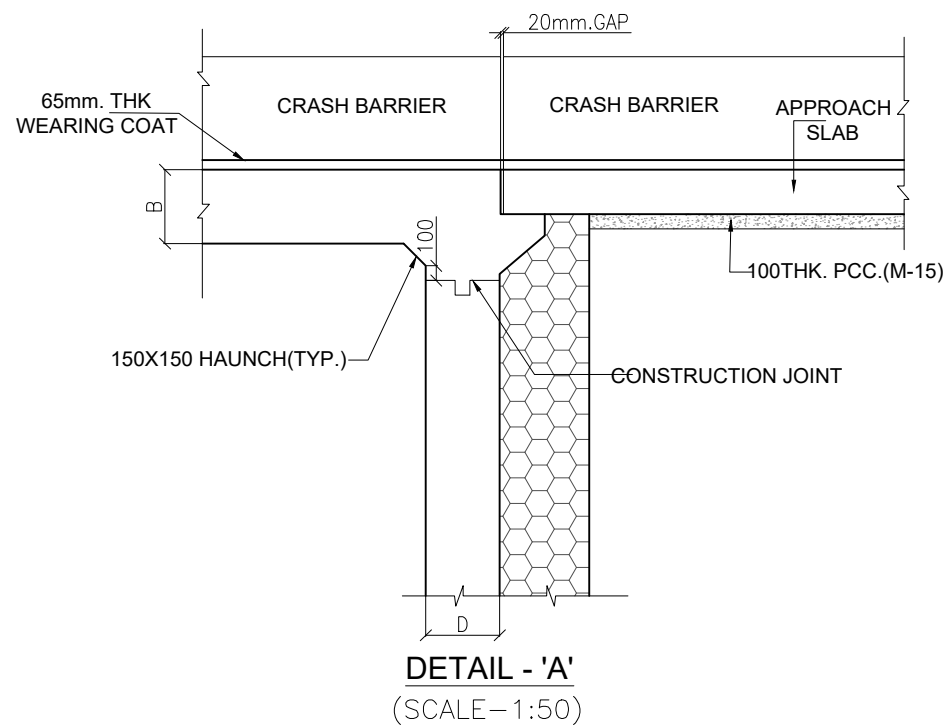
REV.	DATE	DESCRIPTION	ENG.	DM



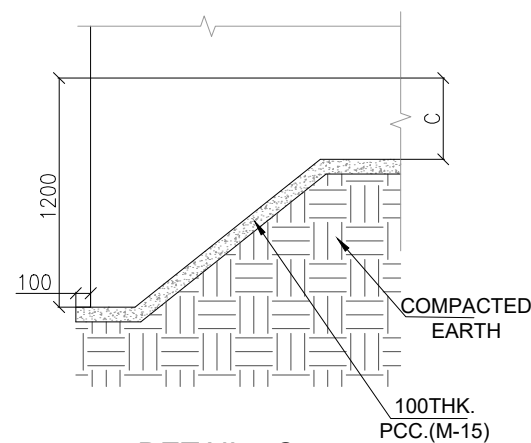
TYPICAL CROSS SECTION OF
CURTAIN WALL TYPE-I
(DOWN STREAM SIDE)
(SCALE-1:40)



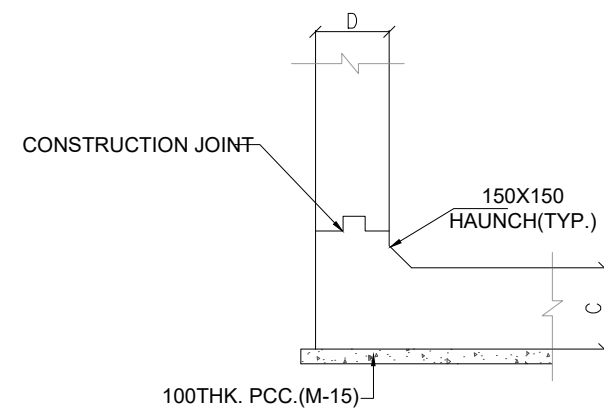
TYPICAL CROSS SECTION OF
CURTAIN WALL TYPE-II
(UP STREAM SIDE)
(SCALE-1:40)



DETAIL - 'A'
(SCALE-1:50)

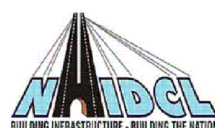


DETAIL - C
(SCALE 1:50)



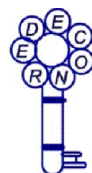
DETAIL 'B'
(SCALE-1:50)

CLIENT:



NATIONAL HIGHWAYS & INFRASTRUCTURE
DEVELOPMENT CORPORATION LTD.

CONSULTANT:



REDECON (I) Pvt. Ltd.
REDECON HOUSE E-49/4, Okhla
Phase-II,
New Delhi-110020

PROJECT:

Consultancy Services for Preparation of Detailed Project
Report for 2 laning with paved shoulder in the UT of
Jammu & Kashmir and Ladakh."
FROM KHANABAL TO BALTAL(NH-501)

PACKAGE-2 SEER HAMDAN TO PAHALGAM

DRAWING TITLE:

GENERAL ARRANGEMENT DRAWING
OF BOX TYP. AT CH-(28+660)
(1X10m SPAN)

DRAWING No:

NHIDCL/J&K/NH-501/MNB/CH-28+660/S-101

DRG. BY

DESIGNED

CHECKED

APPROVED

PAPER SIZE:

REV:

SHEET No: 02 OF 02

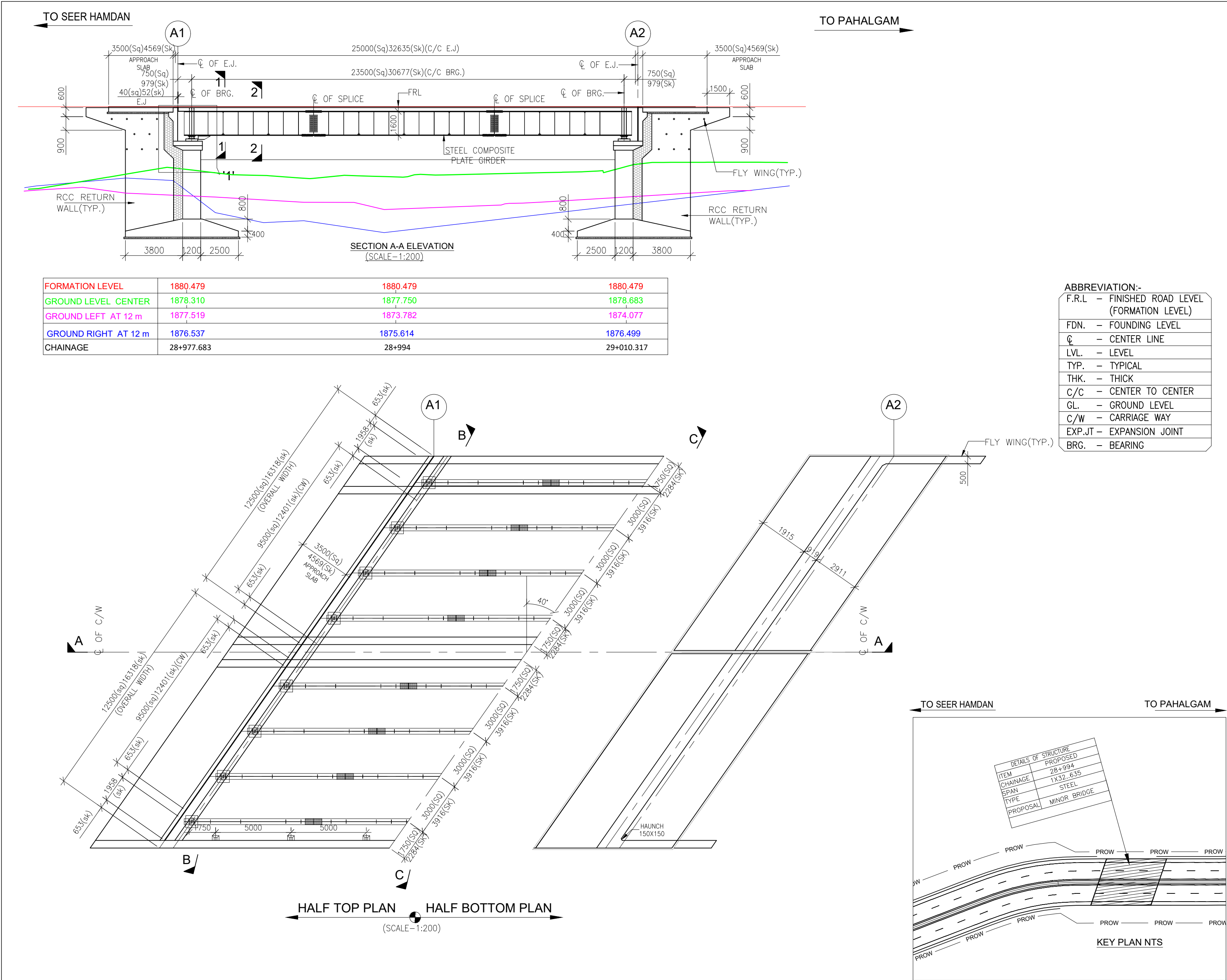
DATE: JAN.2024

SCALE: AS SHOWN

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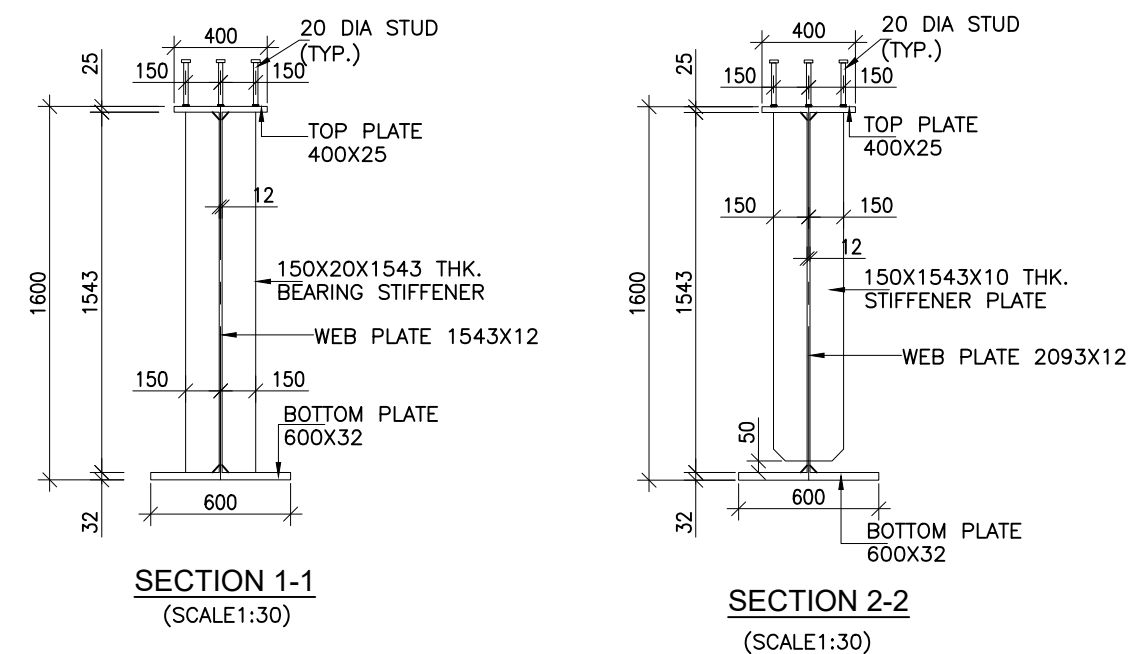
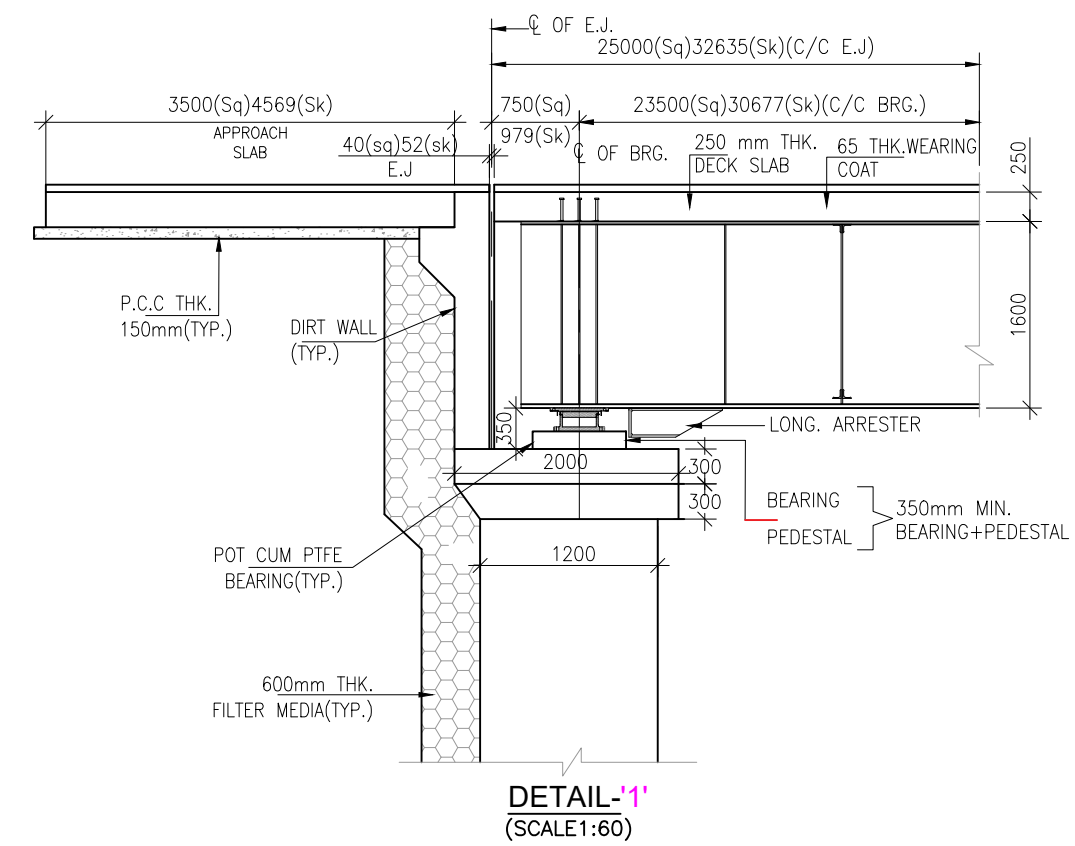
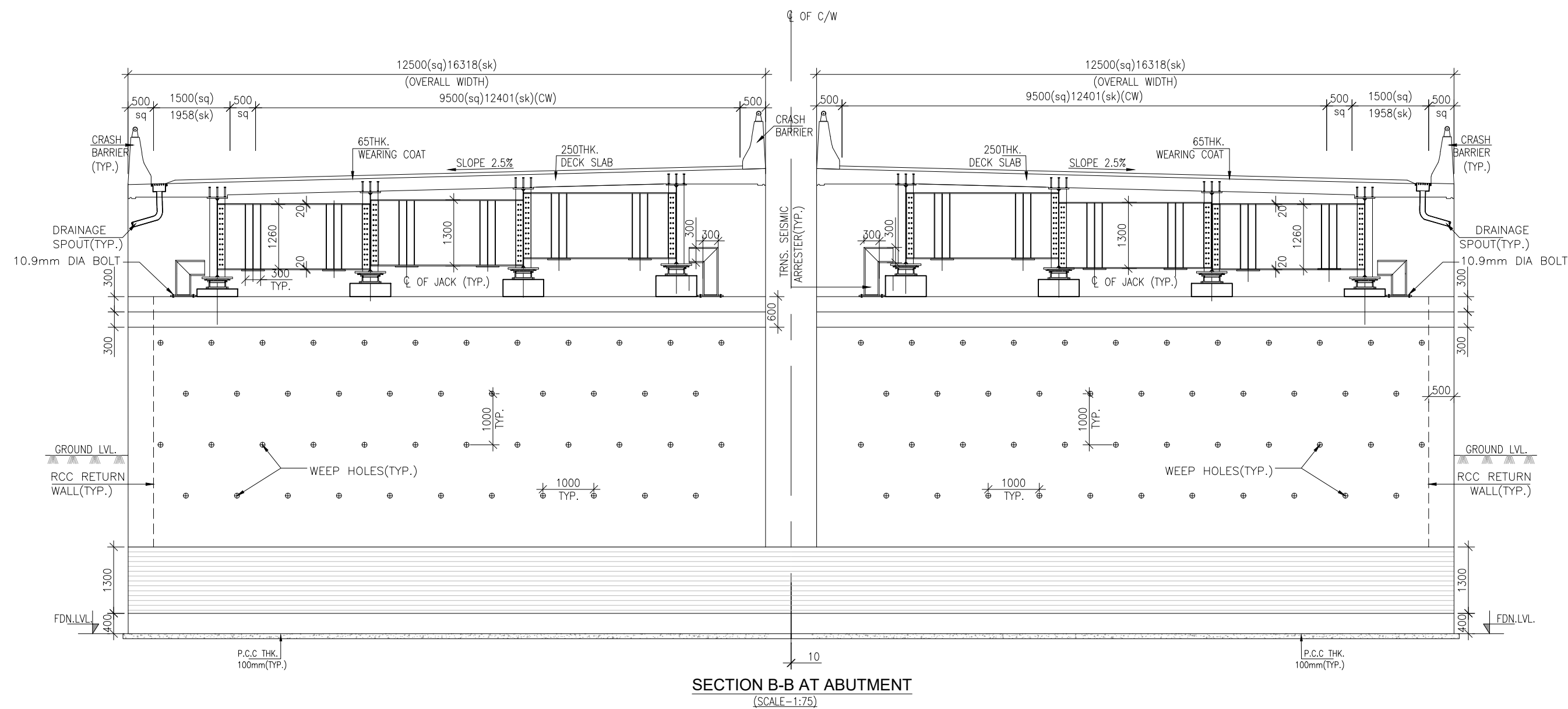
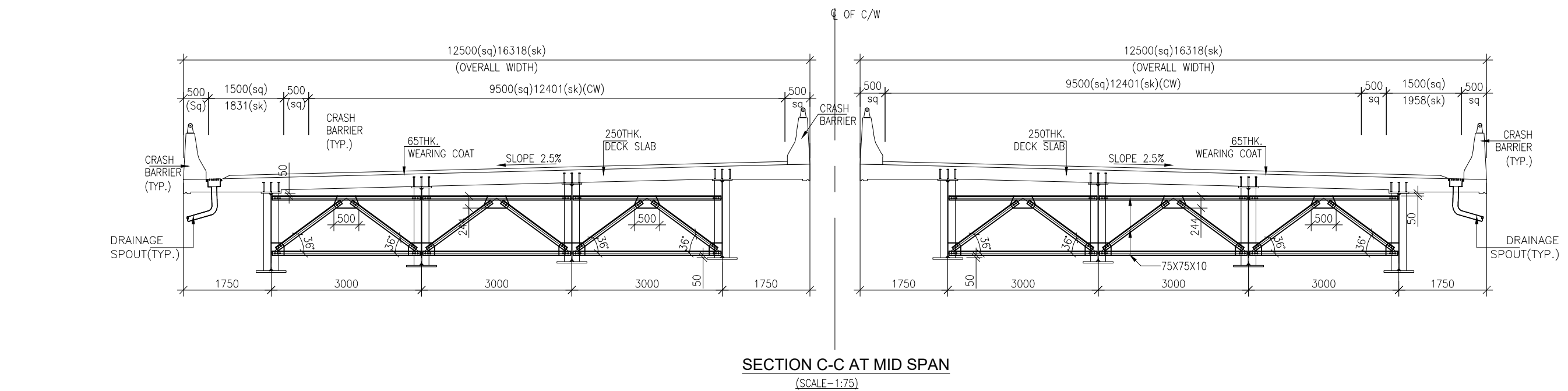
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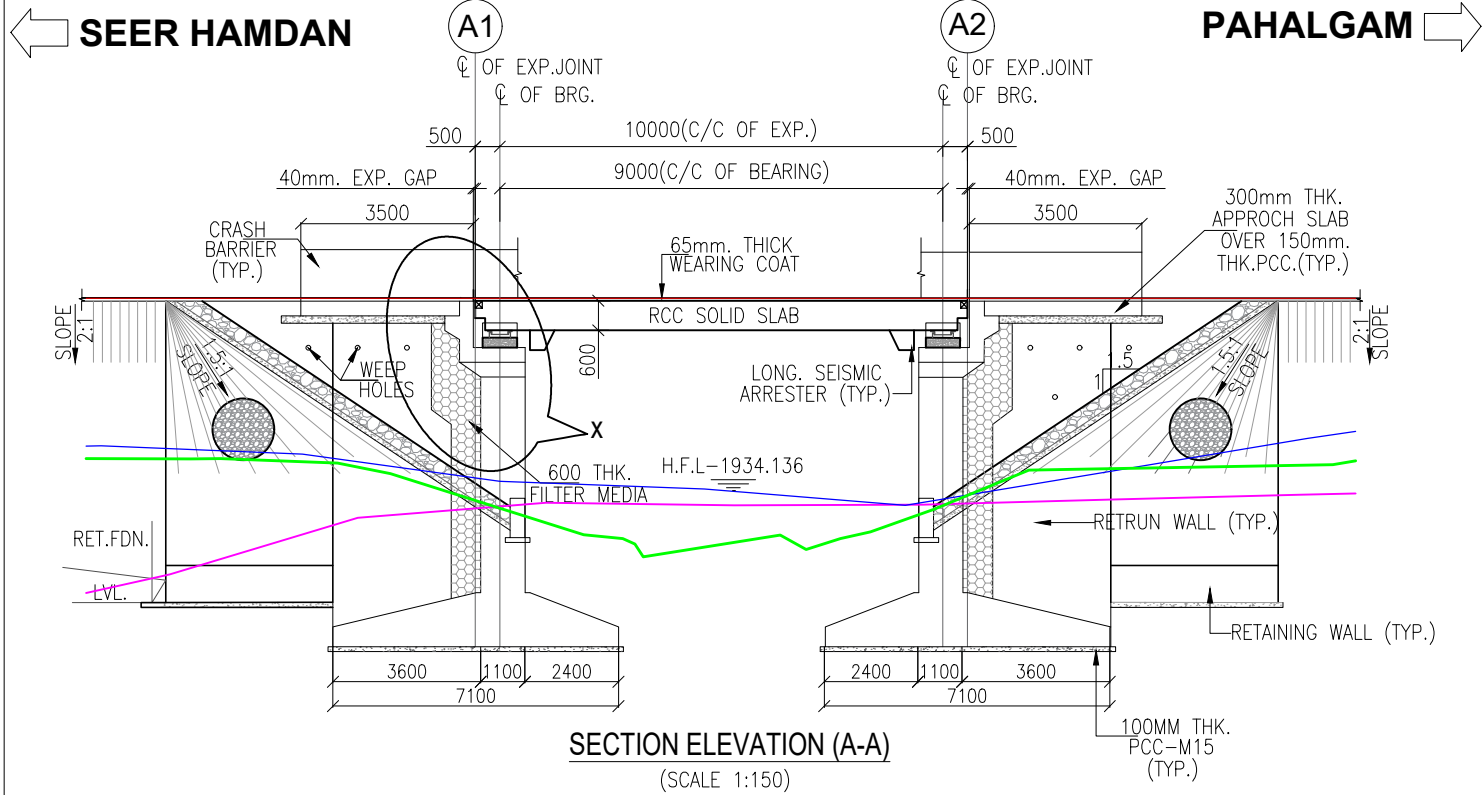
NOTES:			
1	ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS. UNLESS OTHERWISE MENTIONED ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED NO DIMENSION IS TO BE SCALED.		
S.No.	DESCRIPTION	CONFORM	ADOPTED
a	CONDITION OF EXPOSURE	IRC-112:2020	MODERATE
b	SEISMIC ZONE IMPORTANCE FACTOR	IRC SP114:2020	ZONE - V 1.2
c	LIVE LOAD- CONSIDERED a. 3L CLASS A b. 1L 70R W LOADING PLUS 1LANE CLASS A c. SPECIAL VEH.LOADING	IRC 6 :2017	CRITICAL OF a,b&c
d	SNOW LOAD OF 500 kg/cum	LIVE LOAD	ACCUMULATION
i)	COMBINE SNOW LOAD WITH LIVE LOAD	WHEELED VEH.	SNOW 250mm
ii)	COMBINE SNOW LOAD WITH LIVE LOAD	TRACKED VEH.	SNOW 500mm
iii)	COMBINE SNOW LOAD WITH LIVE LOAD	NIL	SNOW >500mm
NOTE:- MAXIMUM RECORDED SNOW ACCUMULATION AS PER SITE = 1200mm			
2	GRADE & CLEAR COVER		
ELEMENT DESCRIPTION	MATERIAL	GRADE	COVER
SUPER STRUCTURE	HIGH STRENGTH STEEL(HTS)	E350	IS:2062
STEEL PLATE GIRDER			
END DIAPHRAGMS			
CROSS FRAMES			
BRACING	MILD STEEL RCC	M35	IS:2062 40
CAST IN PLACE DECK SLAB			
BOLTS	HSFG	10.9	IS:4000
FOUNDATION	RCC	M35	75
SUB STRUCTURE	RCC	M35	75 50
EARTH FACE			
OTHER FACE	PCC	M15	-
LEVELING COURSE			
LEVELING COURSE (BELOW APPROACH SLAB)	PCC	M15	-
CRASH BARRIER	RCC	M40	50
APPROACH SLAB	RCC	M30	50
3	TECHNICAL SPECIFICATION TO BE FOLLOWED		
S.No.	DESCRIPTION	CONFORM	ADOPTED
a	WEARING COURSE	MORT&H. SECTION 2702	65mm
b	EXPANSION JOINT	IRC SP:69-2011	STRIP SEAL
c	BEARINGS AS PER APPROVED MANUFACTURER	IRC 83:2018 (PART III)	POT/PTEE
d	GRADE OF REBARS.	IS:1786.	Fe-500D
e	BACK FILL BEHIND ABUT. RETURN/WING/ RETAINING WALL	IRC 78 2014	Ø :30 DEG. Y:18kN/cum Δ:20DEG.
f	LAYING, COMPACTION & EXTENT OF BACKFILL BEHIND ABUTMENT & RETURN WALL	IRC 78 2014 APPENDIX:6	-
g	WEEP HOLES,SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUT.& RETURN WALL	IRC 78 2014 MORT&H. SECTION 2706	100mm DIA 1000 c/c v/h
h	DRAINAGE SPOUTS	MORT&H. SECTION 2705	-
i	WATER TO BE USED FOR CONCRETING, GROUTING &CURING	IRC-112-2020	-
4	SBC. REQUIRED (kn/Sqm.)	TYPE OF FDN. STRATA	REMARKS
	450	ROCKY (non erodible)	SBC SHALL BE ENSURED BEFORE COMMENCEMENT OF THE EXECUTION.
5	BEFORE COMMENCEMENT OF THE EXECUTION VERIFY ALL DIMENSIONS AND LEVELS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE NOTICE OF THE DESIGN CONSULTANT.		

				CLIENT:		CONSULTANT:		PROJECT:		DRAWING TITLE:				SHEET No: 01 OF 02	
										GENERAL ARRANGEMENT DRAWING AT CH-28+994 (SPAN 1 X32.635M(SK) (SKEW 40) STEEL COMPOSITE PLATE GIRDER				DATE: JAN.2024	
										DRAWING No: NHIDCLJ&K/NH-501/GAD/CH-28+994/S-101				SCALE: AS SHOWN	
										DRAWN		DESIGNED		CHECKED	
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														I.RM.	
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														REV:R0	

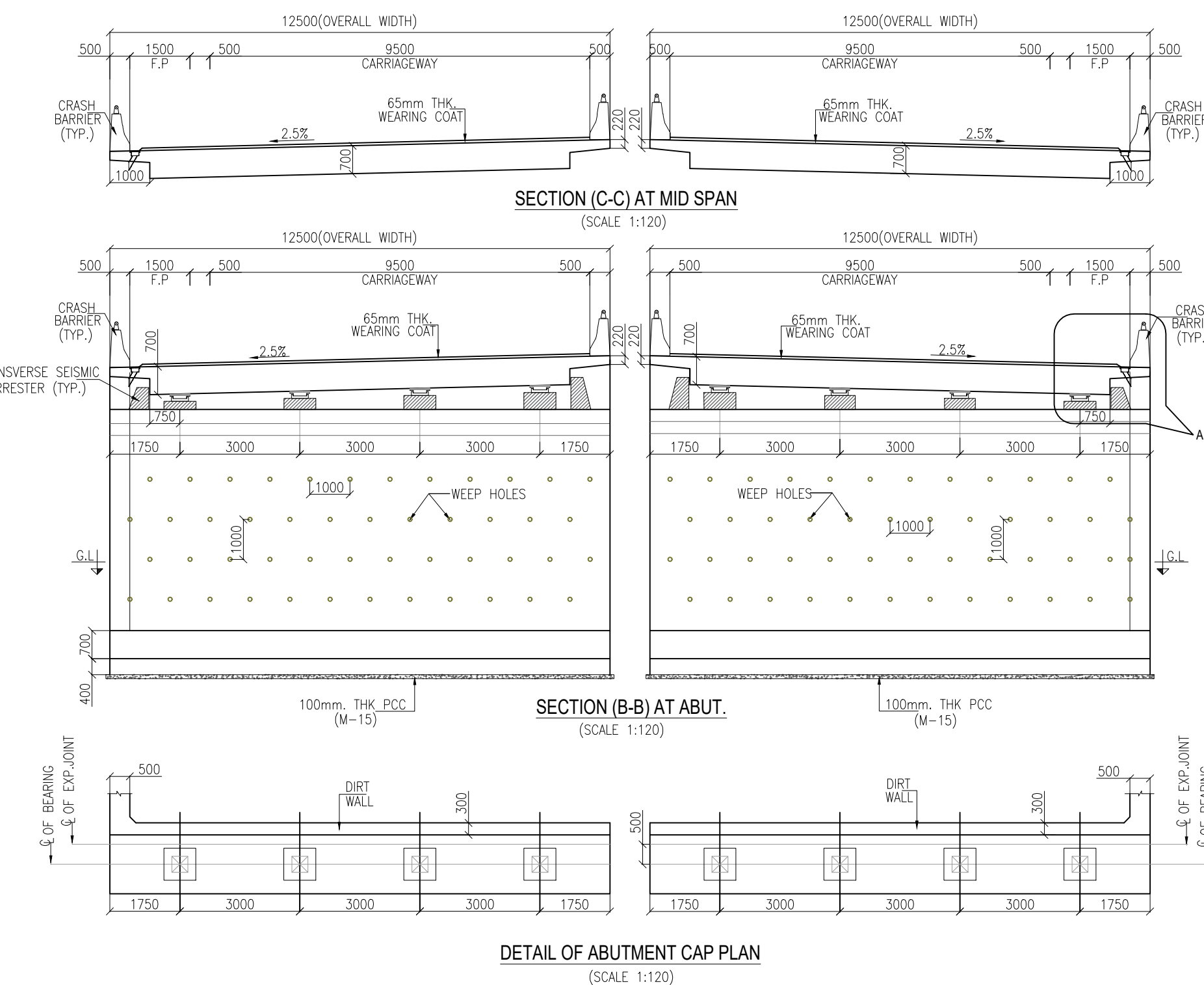
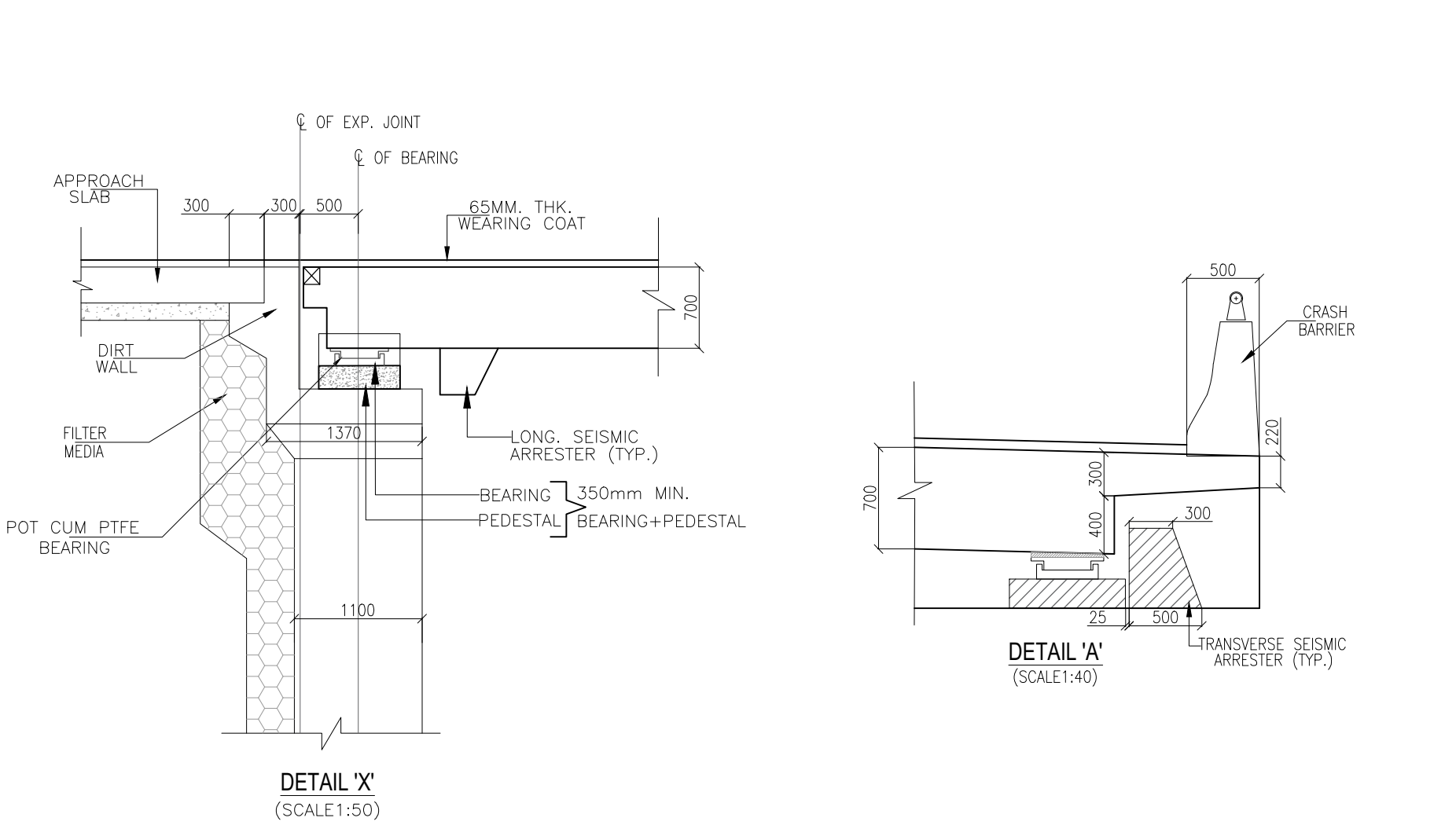
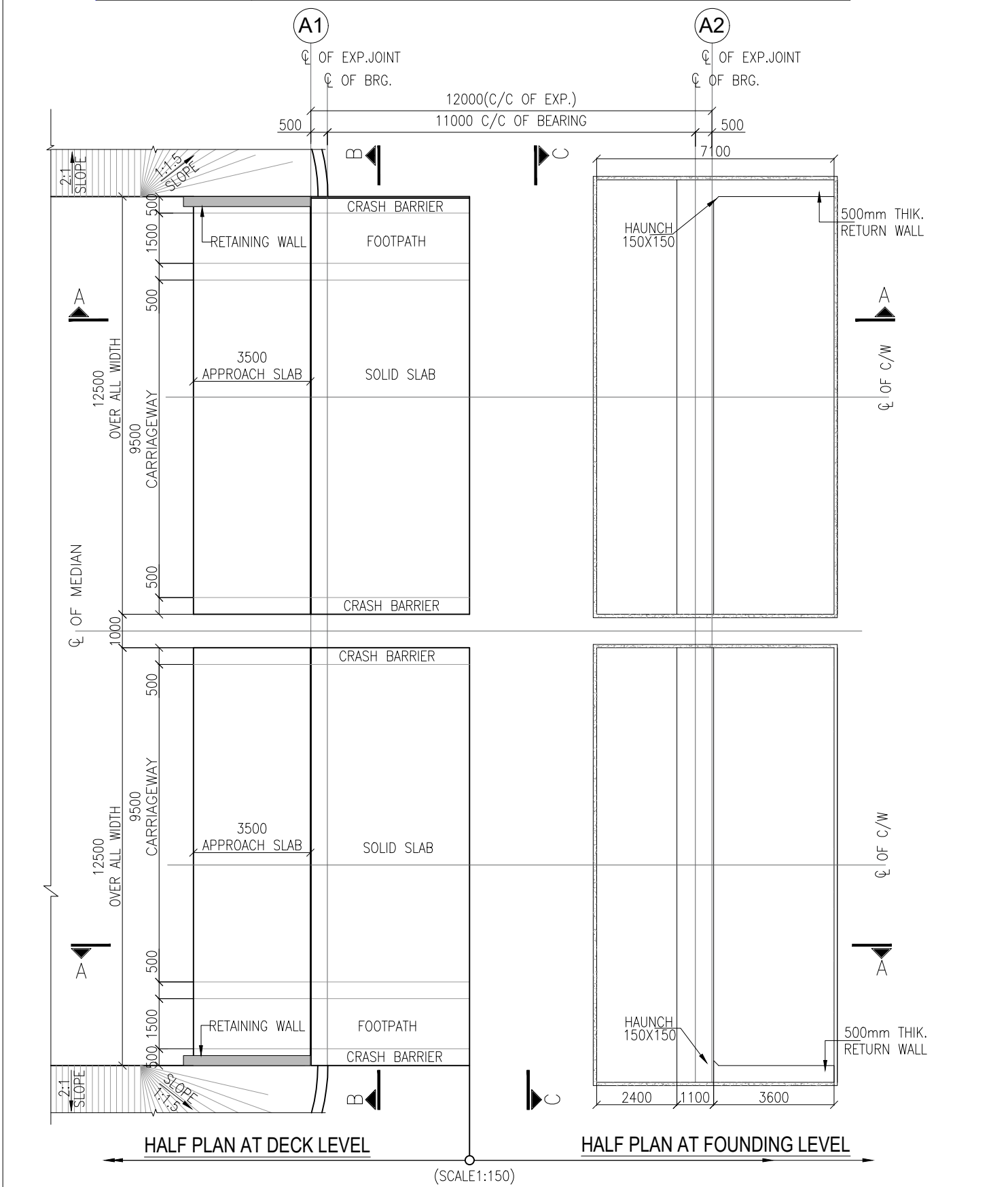
NOTES:
1 ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS. UNLESS OTHERWISE MENTIONED ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED NO DIMENSION IS TO BE SCALED.



					CLIENT:	 NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	CONSULTANT:	 REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT:	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501) PACKAGE-2 SEER HAMDAN TO PAHALGAM	DRAWING TITLE: GENERAL ARRANGEMENT DRAWING AT CH-28+994 (SPAN 1 X32.635M(SK) (SKEW 40) STEEL COMPOSITE PLATE GIRDER				SHEET No: 02 OF 02				
													DRAWING No: NHIDCL/J&K/NH-501/GAD/CH-28+994/S-101				DATE: JAN.2024		
														DRAWN	DESIGNED	CHECKED	APPROVED	SCALE: AS SHOWN	
REV.	DATE	DESCRIPTION	ENG.	DM										G.N	A.R	VPS.	IRM.	PAPER SIZE:A2	REV:R0

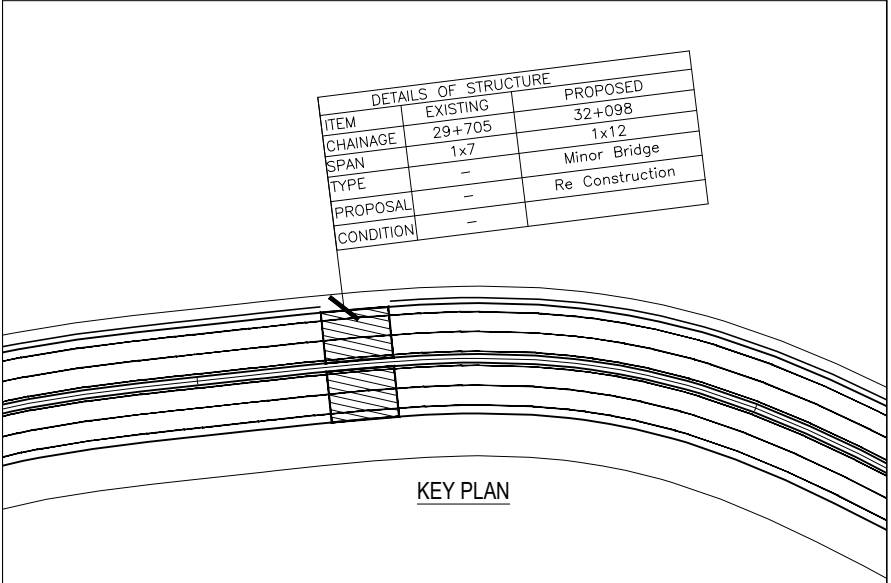


CHAINAGE (M.)	32+092	32+098	32+104
FRL LEVEL	1939.138	1939.138	1939.138
GROUND LEVEL	1933.280	1931.614	1933.651
GL.12m.LHS.	1933.587	1933.723	1933.791
GL.12m.RHS.	1935.030	1934.395	1934.111

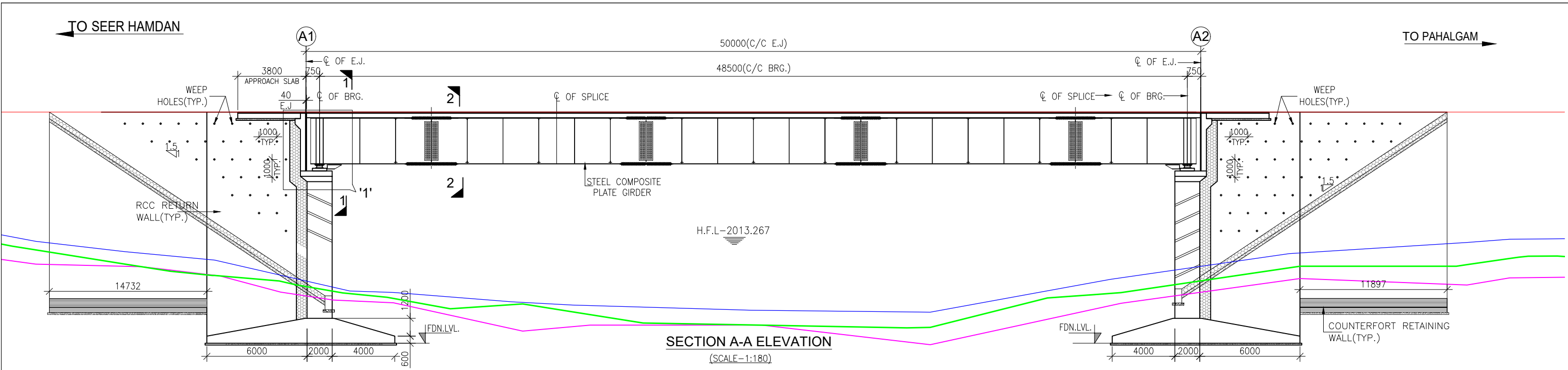


NOTES:			
1	ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS. UNLESS OTHERWISE MENTIONED ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED NO DIMENSION IS TO BE SCALED.		
S.No.	DESCRIPTION	CONFORM	ADOPTED
a	CONDITION OF EXPOSURE	IRC-112:2020	MODERATE
b	SEISMIC ZONE IMPORTANCE FACTOR	IRC SP114:2020	ZONE – V 1.2
c	LIVE LOAD– CONSIDERED a. 3L CLASS–A b. CLASS A–2L PLUS 1LANE 70R W c. CLASS 70R TRACKED d. SPECIAL VEHICLE SV LOADING	IRC 6 :2017	CRITICAL OF a,b,c & d
d	SNOW LOAD OF 500 kg/cum	LIVE LOAD	ACCUMLATION
	i) COMBINE SNOW LOAD WITH LIVE LOAD	WHEELED VEH.	SNOW 250mm
	ii) COMBINE SNOW LOAD WITH LIVE LOAD	TRACKED VEH.	SNOW 500mm
	iii) COMBINE SNOW LOAD WITH LIVE LOAD	NIL	SNOW >500mm
	NOTE:- MAXIMUM RECORDED SNOW ACCUMULATION AS PER SITE = 1200mm		
2	HYDRAULIC DATA		
	HFL	m	1934.136
	DISCHARGE	CUMEC	85.440
	LBL	m	–
	VELOCITY	m/s	3.790
	VC(MIN.)	m	0.900
	MSL.(ABUTMENT)	m	1926.210
3	TECHNICAL SPECIFICATION TO BE FOLLOWED		
S.No.	DESCRIPTION	CONFORM	ADOPTED
a	WEARING COURSE	MORT&H. SECTION 2702	65mm
b	BEARINGS AS PER APPROVED MANUFACTURER	IRC 83:2018 (PART III)	POT/PTEE
c	GRADE OF REBARS.	IS:1786.	Fe–500D
d	BACK FILL BEHIND ABUT. RETURN/WING/ RETAINING WALL	IRC 78 2014	Ø :30 DEG. ?:18kN/cum Δ:20DEG.
e	LAYING, COMPACTION & EXTENT OF BACKFILL BEHIND ABUTMENT & RETURN WALL	IRC 78 2014 APPENDIX:6	–
f	WEEP HOLES,SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUT.& RETURN WALL	IRC 78 2014 MORT&H. SECTION 2706	100mm DIA 1000 c/c V/H
g	WATER TO BE USED FOR CONCRETING, GROUTING &CURING	IRC–112–2020	–
h	DRAINAGE SPOUTS	MORT&H. SECTION 2705	–

4	DESIGN DETAILS:			
	TYPE OF STRUCTURE	DESIGNED HEIGHT (FRL-FDN)(m)	SOIL BEARING CAPACITY	TYPE OF FDN. STRATA
	ABUTMENT	-	-	-
5	SBC. SHALL BE ENSURED BEFORE COMMENCEMENT OF THE EXECUTION.			
6	BEFORE STARTING UP THE EXECUTION VERIFY THE DIMENSION AND LEVELS. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE DESIGN CONSULTANT.			

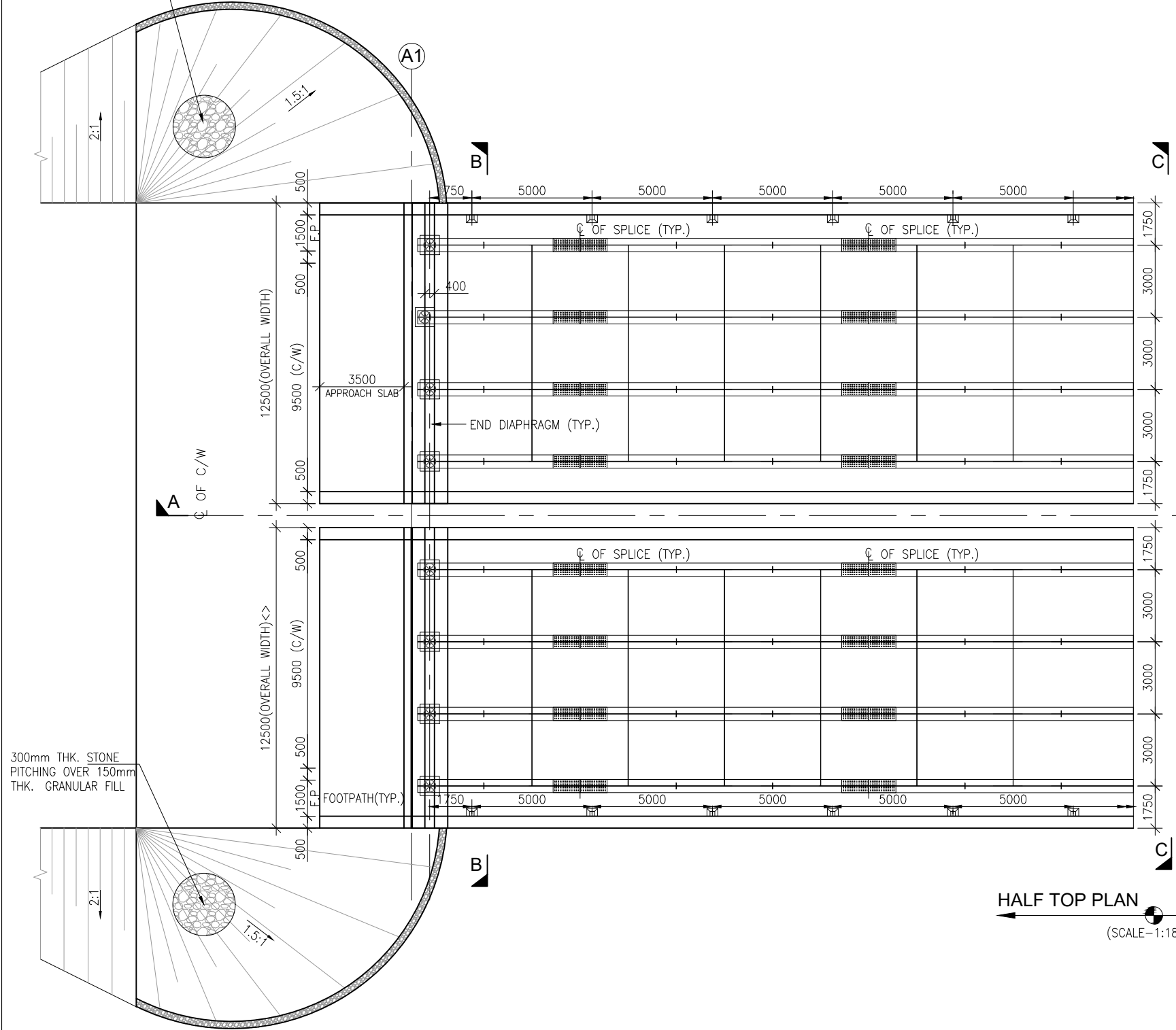


					CLIENT:  NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	CONSULTANT:  REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	PROJECT: "Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501) PACKAGE- 2 SEER HAMDAN TO PAHALGAM	DRAWING TITLE: GENERAL ARRANGEMENT DRAWING OF SOLID SLAB AT CH-(32+098) (1X12m SPAN) DRAWING No: NHIDCL/J&K/NH-501/MNB/CH-32+098/S-101 <table><tr><td>DRAWN</td><td>DESIGNED</td><td>CHECKED</td><td>APPROVED</td></tr><tr><td>G.N</td><td>A.R</td><td>VPS.</td><td>IRM.</td></tr></table>	DRAWN	DESIGNED	CHECKED	APPROVED	G.N	A.R	VPS.	IRM.	SHEET No: 01 OF 01 DATE: JAN.2024 SCALE: AS SHOWN PAPER SIZE: A2 REV: 0
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G.N	A.R	VPS.	IRM.														
REV.	DATE	DESCRIPTION	ENG.	DM													

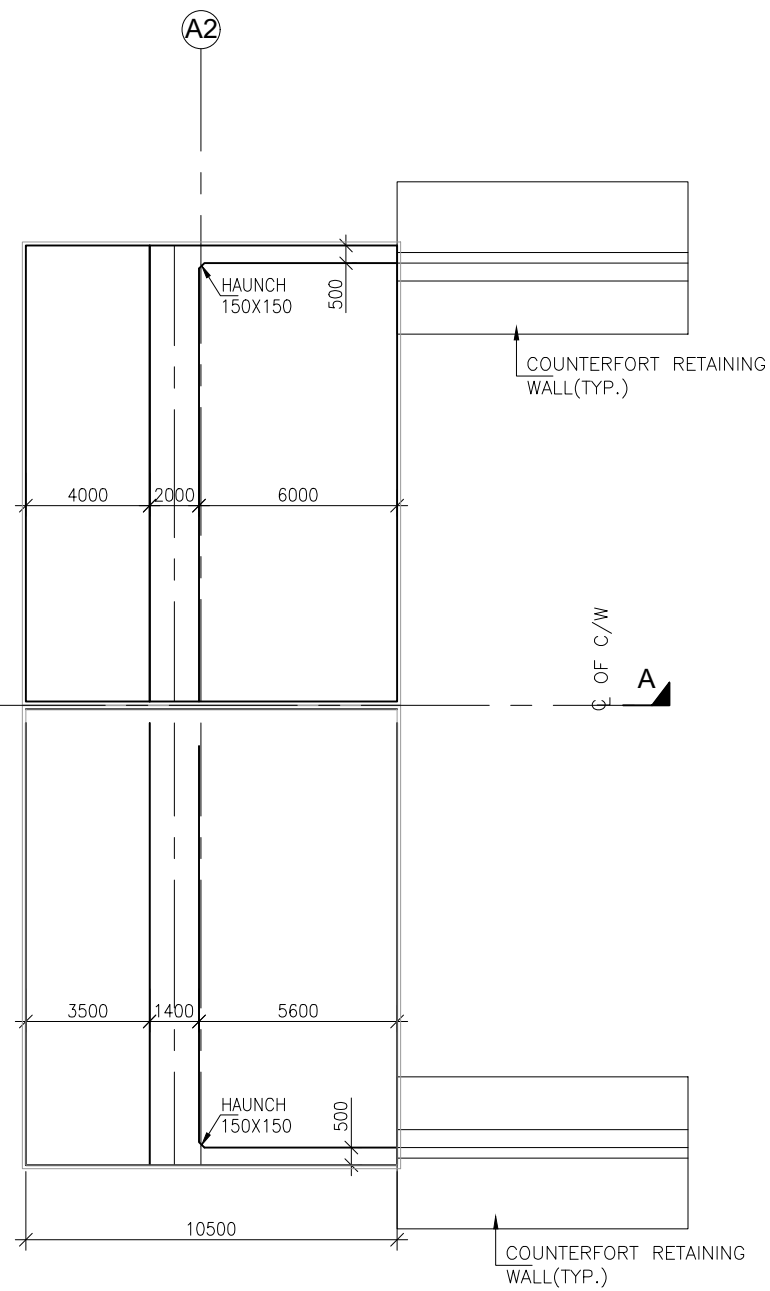


FORMATION LEVEL	2020.489	2020.489	2020.489
GROUND LEVEL CENTER	2006.781	2006.986	2008.147
GROUND LEFT AT 12 m	2005.334	2006.213	2007.224
GROUND RIGHT AT 12 m	2008.812	2008.011	2009.177
CHAINAGE	36+175	36+200	36+225

300mm THK. STONE PITCHING OVER 150mm THK. GRANULAR FILL



300mm THK. STONE PITCHING OVER 150mm THK. GRANULAR FILL



NOTES:

1 ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS. UNLESS OTHERWISE MENTIONED ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED NO DIMENSION IS TO BE SCALED.

S.No.	DESCRIPTION	CONFORM	ADOPTED
a	CONDITION OF EXPOSURE	IRC-112:2020	MODERATE
b	SEISMIC ZONE IMPORTANCE FACTOR	IRC SP114:2020	ZONE - V 1.2
c	LIVE LOAD- CONSIDERED a. 3L CLASS A b. 1L 70R W LOADING PLUS 1LANE CLASS A c. SPECIAL VEH.LOADING	IRC 6 :2017	CRITICAL OF a,b&c
d	SNOW LOAD OF 500 kg/cum	LIVE LOAD	ACCUMULATION
i)	COMBINE SNOW LOAD WITH LIVE LOAD	WHEELED VEH.	SNOW 250mm
ii)	COMBINE SNOW LOAD WITH LIVE LOAD	TRACKED VEH.	SNOW 500mm
iii)	COMBINE SNOW LOAD WITH LIVE LOAD	NIL	SNOW >500mm

NOTE:- MAXIMUM RECORDED SNOW ACCUMULATION AS PER SITE = 1200mm

2	HYDRAULIC DATA		
HFL	m	2013.267	
DISCHARGE	CUMEC	421.170	
LBL	m	-	
VELOCITY	m/s	9.540	
VC(MIN.)	m	1.200	
MSL AT ABUTMENT	m	2006.420	

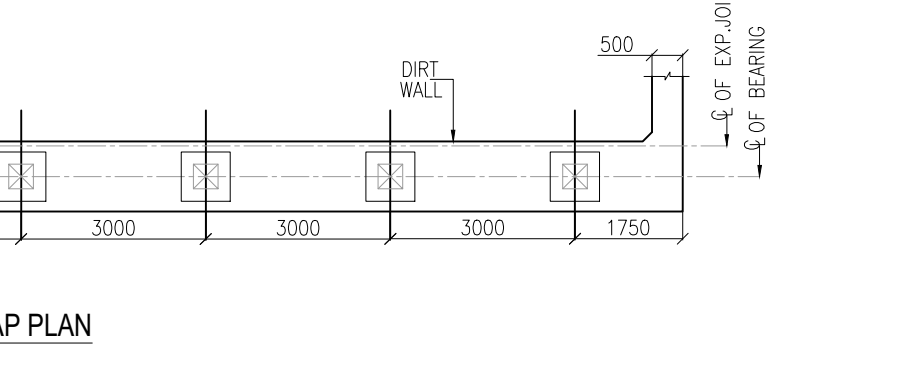
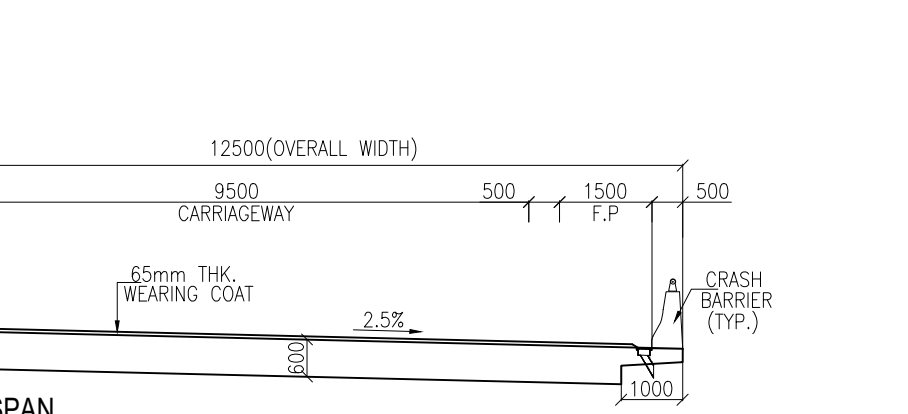
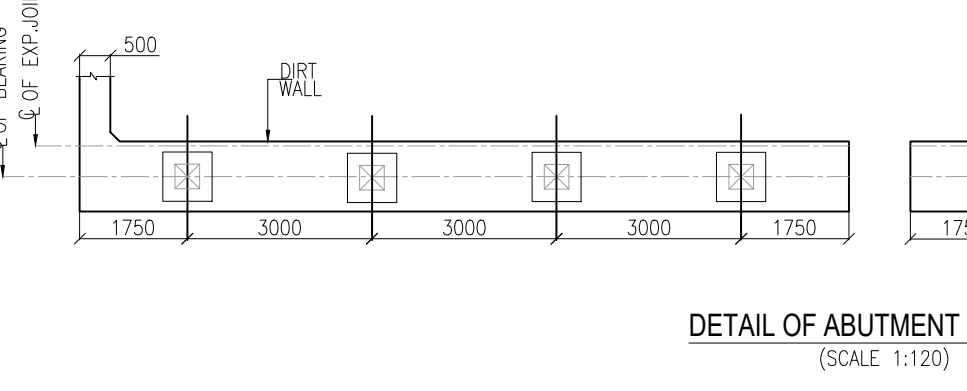
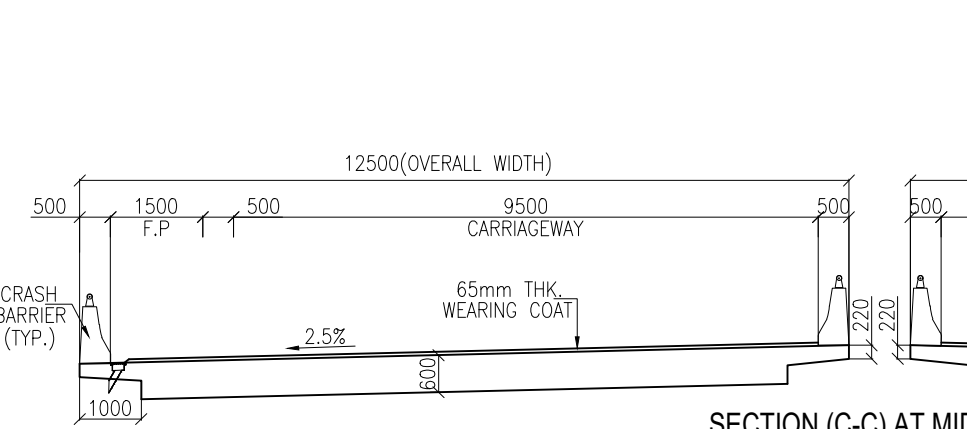
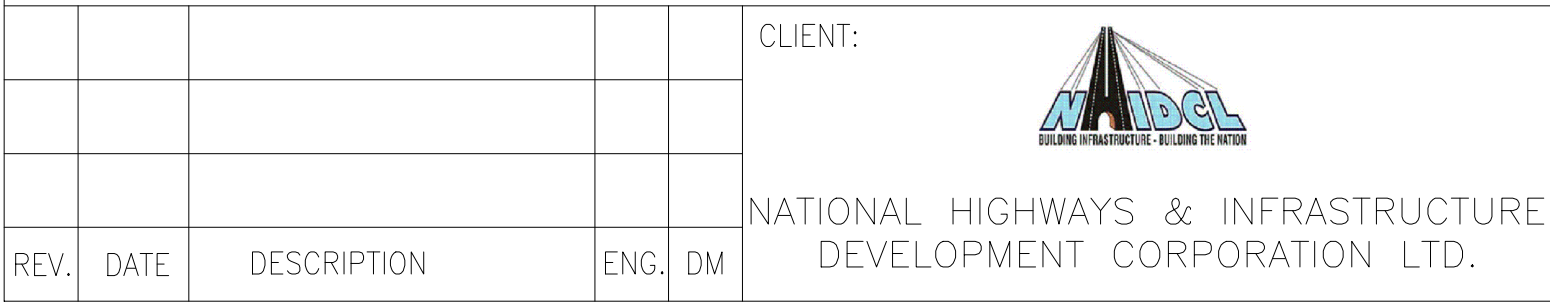
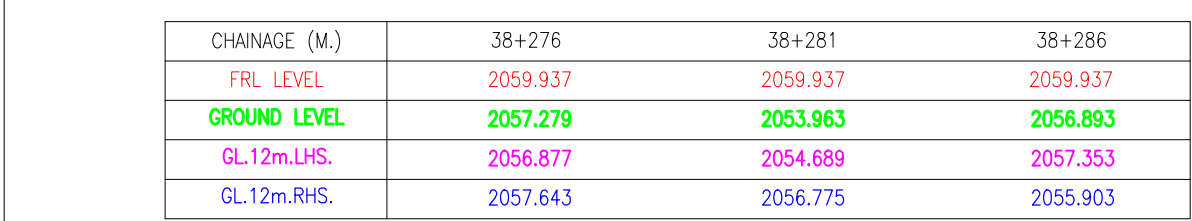
3	GRADE & CLEAR COVER		
ELEMENT DESCRIPTION	MATERIAL	GRADE	COVER
SUPER STRUCTURE STEEL PLATE GIRDER END DIAPHRAGMS CROSS FRAMES BRACING CAST IN PLACE DECK SLAB	HIGH STRENGTH STEEL(HTS) MILD STEEL RCC	E410 E250 M35	IS:2062 IS:2062 40
BOLTS	HSFG	10.9	IS:4000
FOUNDATION	RCC	M35	75
SUB STRUCTURE EARTH FACE OTHER FACE	RCC	M35	75 50
LEVELING COURSE	PCC	M15	-
LEVELING COURSE (BELOW APPROACH SLAB)	PCC	M15	-
CRASH BARRIER	RCC	M40	50
APPROACH SLAB	RCC	M30	50

4	TECHNICAL SPECIFICATION TO BE FOLLOWED		
S.No.	DESCRIPTION	CONFORM	ADOPTED
a	WEARING COURSE	MORT&H. SECTION 2702	65mm
b	EXPANSION JOINT	IRC SP:69-2011	STRIP SEAL
c	BEARINGS AS PER APPROVED MANUFACTURER	IRC 83:2018 (PART III)	POT/PTEE
d	GRADE OF REBARS.	IS:1786.	Fe-500D
e	BACK FILL BEHIND ABUT. RETURN/WING/ RETAINING WALL	IRC 78 2014	Ø :30 DEG. Y:18kN/cum Δ:20DEG.
f	LAYING, COMPACTION & EXTENT OF BACKFILL BEHIND ABUTMENT & RETURN WALL	IRC 78 2014 APPENDIX:6	-
g	WEEP HOLES,SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUT.& RETURN WALL	IRC 78 2014 MORT&H. SECTION 2706	100mm DIA 1000 c/c V/H
h	DRAINAGE SPOUTS	MORT&H. SECTION 2705	-
i	WATER TO BE USED FOR CONCRETING, GROUTING &CURING	IRC-112-2020	-

5	SBC. REQUIRED (kN/Sqm.)	TYPE OF FDN. STRATA	REMARKS
	450	ROCKY (non erodible)	SBC SHALL BE ENSURED BEFORE COMMENCEMENT OF THE EXECUTION.

6 BEFORE COMMENCEMENT OF THE EXECUTION VERIFY ALL DIMENSIONS AND LEVELS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE NOTICE OF THE DESIGN CONSULTANT.

REV.	DATE	DESCRIPTION	ENG. DM	CLIENT:	CONSULTANT:	PROJECT:	DRAWING TITLE:	SHEET No:
				NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.	REDECON (I) Pvt. Ltd. "REDECON HOUSE" E-49/4, Okhla Phase-II, New Delhi-110020	"Consultancy Services for Preparation of Detailed Project Report for 2 laning with paved shoulder in the UT of Jammu & Kashmir and Ladakh".FROM KHANABAL TO BALTAL(NH-501)	GENERAL ARRANGEMENT DRAWING AT CH-36+200 (SPAN 1 X50M) STEEL COMPOSITE PLATE GIRDER	01 OF 02
							DRAWING No:	DATE: JAN.2024
							NHIDCLJ&K/NH-501/GAD/CH-36+200/S-101	SCALE: AS SHOWN
							DRAWN	PAPER SIZE:A2
							DESIGNED	REV:R0
							CHECKED	
							APPROVED	
							G.N	
							A.R	
							V.P.S	



DESIGN DETAILS:			
TYPE OF STRUCTURE	DESIGNED HEIGHT (FRL-FDN)(m)	SOIL BEARING CAPACITY	TYPE OF FDN. STRATA
ABUTMENT	-	-	-
5. SBC. SHALL BE ENSURED BEFORE COMMENCEMENT OF THE EXECUTION.			
6. BEFORE STARTING UP THE EXECUTION VERIFY THE DIMENSION AND LEVELS. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE DESIGN CONSULTANT.			

NG TITLE: GENERAL ARRANGEMENT DRAWING OF SOLID SLAB AT CH-(38+281) (1X10 SPAN)				SHEET No: 01 OF 01	
				DATE: JAN.2024	
NG No: NHIDCL/J&K/NH-501/MNB/CH-38+281/S-101				SCALE: AS SHOWN	
AWN	DESIGNED	CHECKED	APPROVED		
N	A.R	VPS.	IRM.	PAPER SIZE: A2	REV: 0