



Border Roads Organization

Border Roads Organisation

Ministry of Defence, Government of India

Consultancy Services for Feasibility Study, Preparation of Detailed Project Report (DPR) and Providing Preconstruction Services (including Selection of Site, Type of bridge, Sub Soil Investigation, Estimation, Preparation of Tender documents etc.) (Indicative length of Bridge-300 mtr & Approach Road -4.50 Kms) over Siang River at Km 93.50 on Ditte-Dimme-Migging Road under 761 BRTF of Project Brahman in Arunachal Pradesh State

DRAWINGS (PKG-I:BRIDGES)

VOLUME-V

JUNE, 2022

INDEX

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2	LEGEND	VKSIMPL/P-134/BRO/LEGEND/01
3	PLAN & PROFILE CH (2+000 TO 3+200 Km)	VKSIMPL/P-134/BRO/PP/03
4	PLAN & PROFILE CH (2+000 TO 3+200 Km)	VKSIMPL/P-134/BRO/PP/3A
5	PLAN CH (2+000 TO 3+200 Km)	VKSIMPL/P-134/BRO/PL/02
6	GENERAL ARRANGEMENT DRAWING FOR EXTRADOSED BRIDGE OVER SIANG RIVER AT CH 2+908Km	VKSIMPL/P-134/BRO/GAD/MJB-01/01 (Sh. 1 OF 2)
7	GENERAL ARRANGEMENT DRAWING FOR EXTRADOSED BRIDGE OVER SIANG RIVER AT CH 2+908Km	VKSIMPL/P-134/BRO/GAD/MJB-01/01 (Sh. 2 OF 2)
8	GENERAL ARRANGEMENT DRAWING FOR MAJOR BRIDGE AT CH 2+590.000 (1x51.50+1x12.00m SPAN)	VKSIMPL/P-134/BRO/MJB-02/01 (Sh. 1 OF 2)
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11	DIMENSION DETAILS OF SUB STRUCTURE & FOUNDATION FOR ABUTMENT	VKSIMPL/P-134/BRO/MJB-02/02 (Sh. 2 OF 2)
12	DIMENSION DETAILS OF SUB STRUCTURE & FOUNDATION FOR PIER	VKSIMPL/P-134/BRO/MJB-02/03
13	DIMENSION DETAILS OF SUPER STRUCTURE (STEEL COMPOSITE GIRDER)	VKSIMPL/P-134/BRO/MJB-02/06 (Sh. 1 OF 4)
14	DIMENSION DETAILS OF SUPER STRUCTURE (STEEL COMPOSITE GIRDER)	VKSIMPL/P-134/BRO/MJB-02/06 (Sh. 2 OF 4)
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17	REINFORCEMENT DETAILS OF APPROACH SLAB	VKSIMPL/P-134/BRO/MISC/01
18	DETAILS OF CRASH BARRIER & RAILING	VKSIMPL/P-134/BRO/MISC/02
19	TYPICAL DETAILS OF DRAINAGE SPOUT	VKSIMPL/P-134/BRO/MISC/03

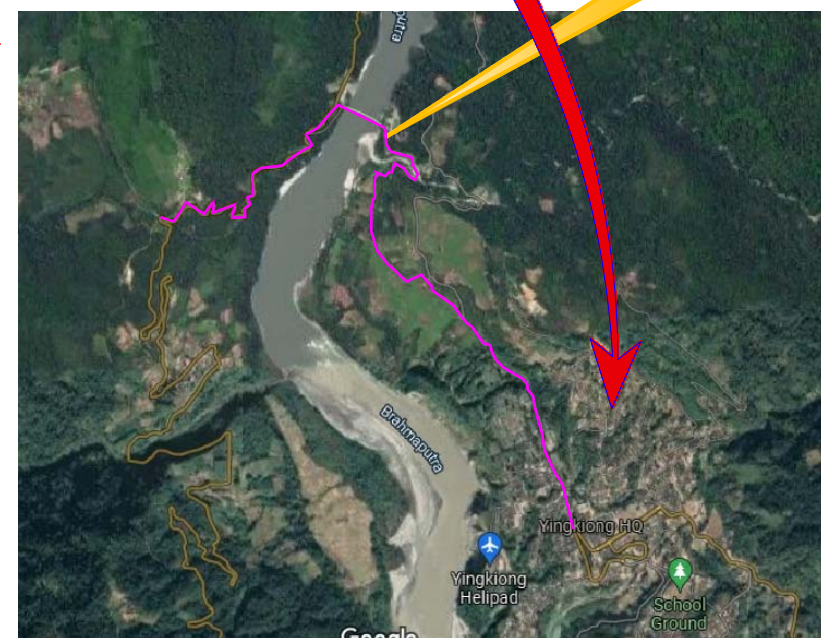


INDIA MAP SHOWING PROJECT STATE

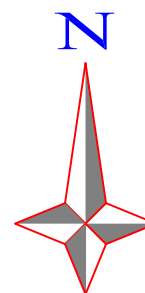




ARUNACHAL PRADESH MAP SHOWING PROJECT DISTRICT

DISTRICT MAP SHOWING PROJECT LOCATION



























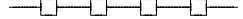








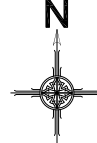











Proposed Bridge Location
Over Siang River



				Project Title				Client :				Drawing Title :				Design Consultant :			
								 Border Roads Organisation Ministry of Defence Government of India				PROJECT LOCATION MAP				 VKS INFRATECH MANAGEMENT PVT. LTD. <i>Consulting Engineers, Planners & Managers</i>			
				Consultancy Services for Feasibility Study, Preparation of Detailed Project Report (DPR) and Providing Preconstruction Services (Including Selection of Site, Type of bridge, Sub Soil Investigation, Estimation, Preparation of Tender documents etc.) (Indicative length of Bridge-300 mtr & Approach Road -4.50 Kms) over Siang River at Km 93.50 on Ditte-Dimme-Migging Road under 761 BRTF of Project Brahmark in Arunachal Pradesh State								Drawing Number : VKSIMPL/P-134/BRO/PLM/01				Raghunath Bhawan, B-17/882, Block-B, Opp Prachin Shiv Mandir, New Ashok Nagar, Delhi - 110096 (Ph: 011-45061563)			
												Scale : NTS							
												Drawn By : JR		Designed By : AA		Checked By : KP		Date : Mar, 2022	
Revision Details				By	Chk	Date	Suffix												

LEGENDS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	Electric Pole		WELL		RIVER
	High Tension Tower		TUBE WELL		EXISTING CENTRE LINE
	Electric pole Mounted Transformer		Hand Pump		EXISTING CARRIAGEWAY EDGE
	Electric Box		Fire Hydrant		EXISTING EARTHEN SHOULDER EDGE
	Telephone Pole		Bore Hore Location		PROPOSED CENTRE LINE
	Telephone Box		Temple		PROPOSED CARRIAGEWAY EDGE
	Telephone Booth		Optical Fiber Stone		PROPOSED EARTHEN SHOULDER EDGE
	Name Board		Gas Pipe Stone		TOE LINE
	Kilometer Stone		Gate/Compound Wall		EXISTING EARTHEN SHOULDER EDGE
	Traffic Sign Board		MOBILE TOWER		High Tension Line
	ManHole		BSF TOWER		Electric Line Crossing
	Level Crossing Manually		LAMP POST		NORTH SIGN
	Level Crossing Automatic		TREE1 30CM-60CM		
	T B M		TREE2 60CM-90CM		
	G P S		TREE3 90CM-180CM		
	WATER TAP		TREE4 180CM & ABOVE		
			Traverse Point Reference Point		


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EXISTING LEGEND		PROPOSED LEGEND	
CENTER LINE	---	CENTER LINE	---
CARRIAGEWAY EDGE	---	CARRIAGEWAY EDGE	---
SHOULDER EDGE	---	PAVED SHOULDER	---
		EARTHEN SHOULDER EDGE	---
		PROPOSED ROAD HATCH	---
		PROW	---

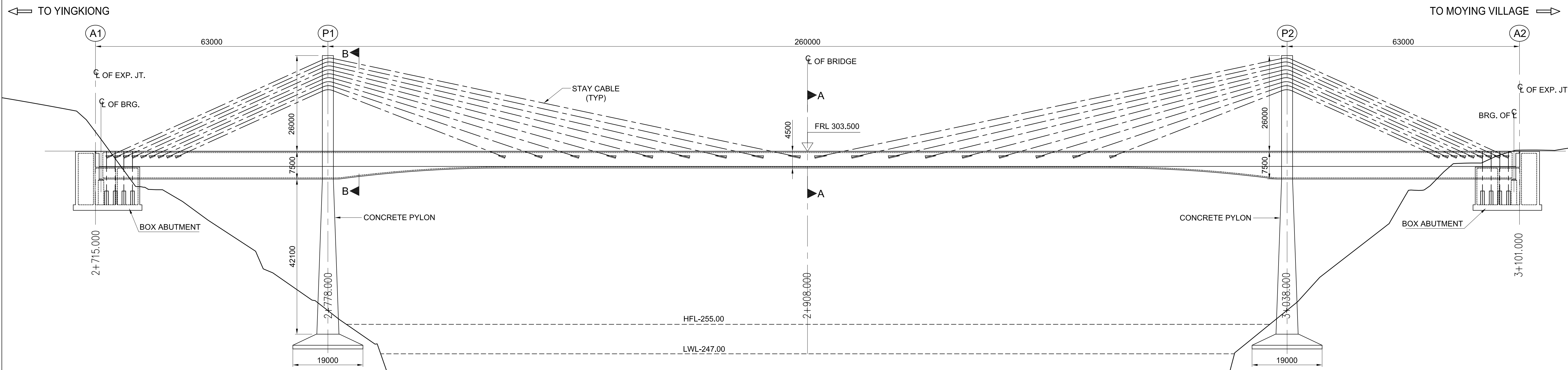
Revision Details			
	By	Date	Suffix
	CHK		

Project Title
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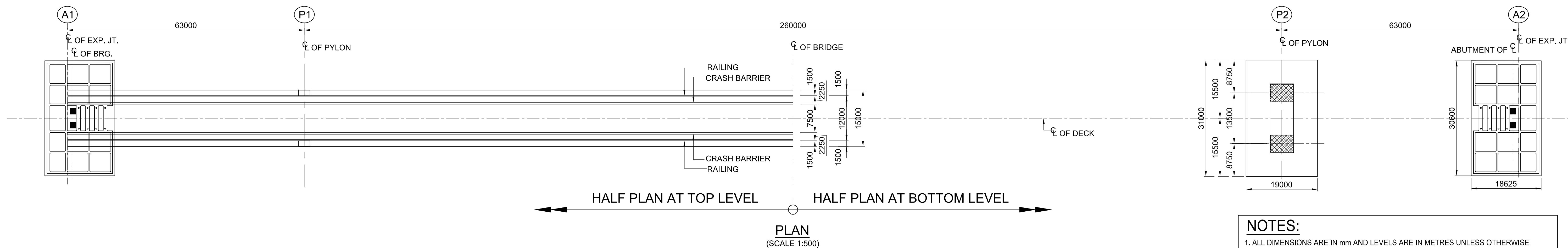
Drawing Title :
PLAN PROFILE CH (2+000 To 3+200 KM)
Drawing Number :
VKSIMPL/P-134/BRO/PP/03
Scale :
H=1:2000 V=1:200
Drawn By :
JR
Designed By :
AA
Checked By :
KP
Date :
Mar, 2022

Design Consultant :
**VKS INFRATECH MANAGEMENT PVT. LTD.**
Consulting Engineers, Planners & Managers
Raghunath Bhawan, B-17/882, Block-B, Opp Prachin Shiv Mandir, New Ashok Nagar, Delhi - 110096
(Ph: 011-45061563)



SECTIONAL ELEVATION
(SCALE 1:500)

CHAINAGE (Km)	EXISTING LVL. (m)	FORMATION LVL. (m)
2720.000 +	299.842 +	303.500 -
2740.000 +	289.777 +	303.500 -
2760.000 +	270.154 +	303.500 -
2780.000 +	256.832 +	303.500 -
2800.000 +	--	303.500 -
2820.000 +	--	303.500 -
2840.000 +	--	303.500 -
2860.000 +	--	303.500 -
2880.000 +	--	303.500 -
2900.000 +	--	303.500 -
2908.000	CL OF BRIDGE	
2920.000 +	--	303.500 -
2940.000 +	--	303.500 -
2960.000 +	--	303.500 -
2980.000 +	--	303.500 -
3000.000 +	--	303.500 -
3020.000 +	246.913 +	303.500 -
3040.000 +	260.794 +	303.500 -
3060.000 +	278.287 +	303.500 -
3080.000 +	296.641 +	303.500 -
3100.000 +	304.775 +	303.500 -




NOTES:

1. ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN METRES UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED. NO DIMENSIONS SHALL BE SCALED.
2. STRUCTURE IS DESIGNED FOR 3 LANES OF CLASS A OR 1 LANE OF 70R + 1 LANE OF CLASS A WHICHEVER GOVERNS.
3. CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC STRENGTH AS FOLLOWS:

BOX GIRDER	-	M55
BOX ABUTMENT	-	M45
PYLON SHAFT	-	M55
PYLON FOUNDATION	-	M45
APPROACH SLAB	-	M30
LEVELLING COURSE (PCC)	-	M15
4. REINFORCEMENT STEEL SHALL BE HYSD BARS OF GRADE DESIGNATION Fe-500D CONFORM TO IS:1786.
5. 65mm TH. WEARING COURSE COMPRISING OF UNDER LAYER OF 40mm THK. ASPHALTIC CONCRETE OVERLAD WITH 25mm THK MASTIC SPHALT. PROVIDED AS PER SECTION 500 OF MORTH SPECIFICATIONS.

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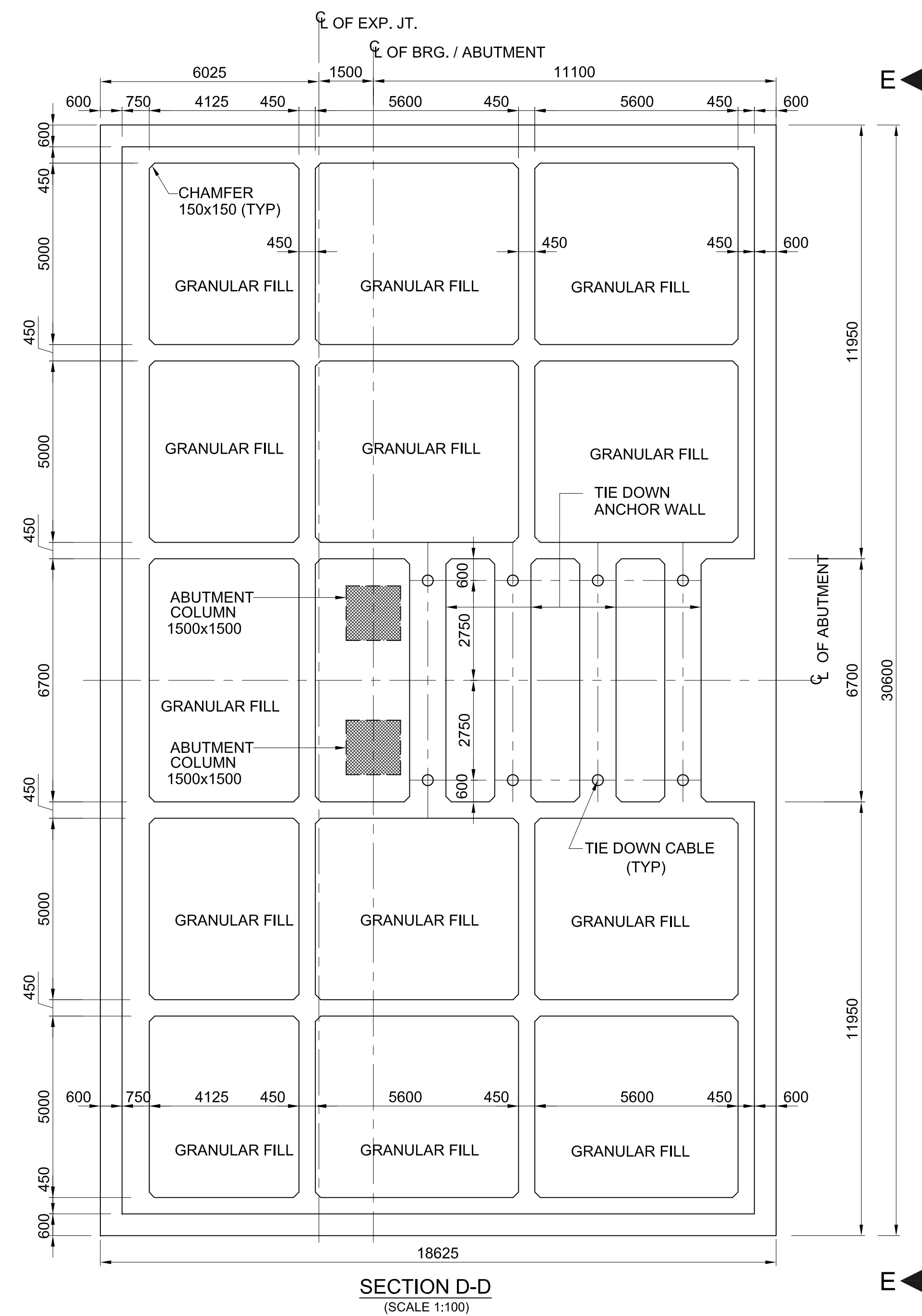
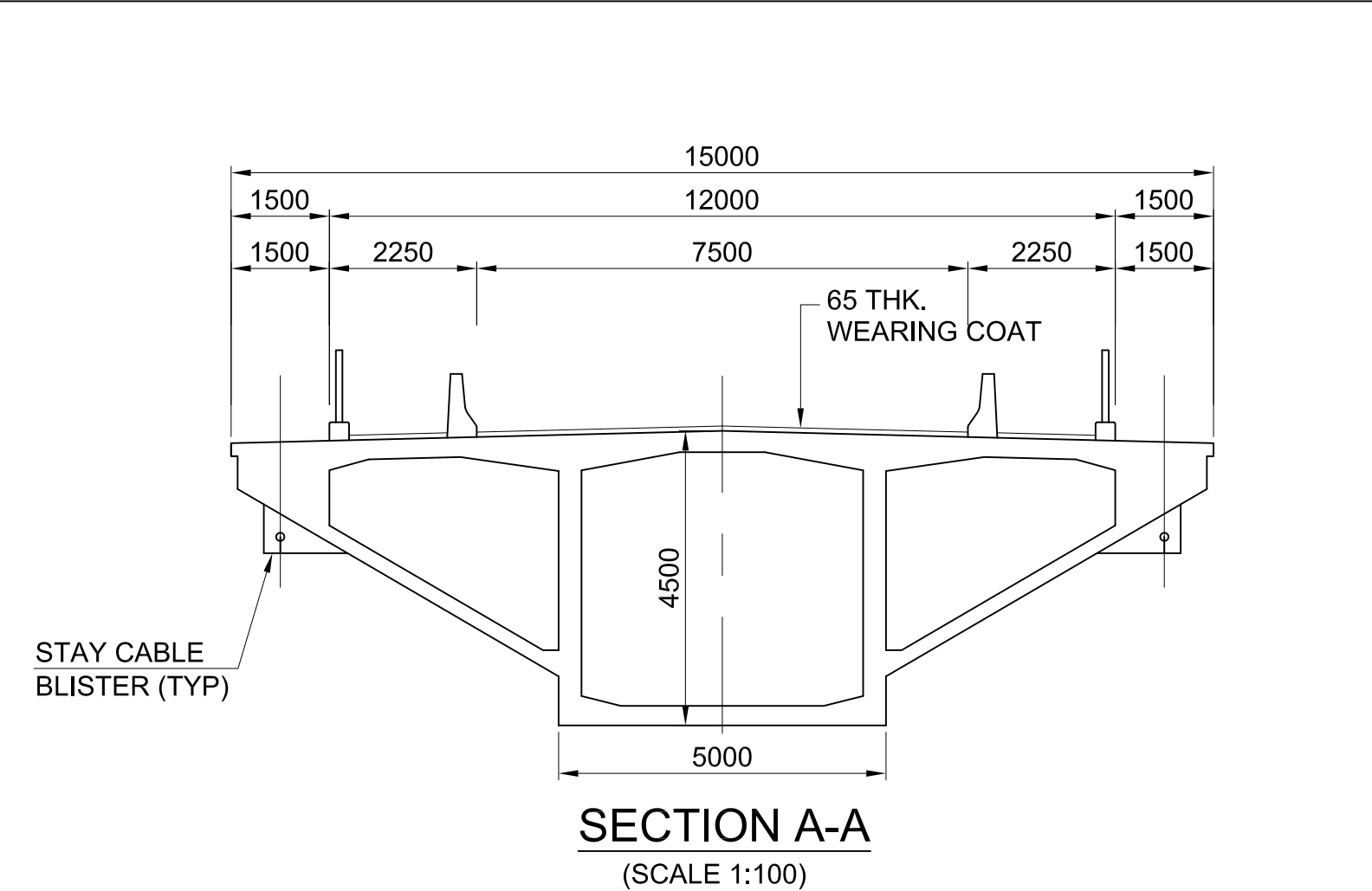
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Client :  **Border Roads Organisation**
Ministry of Defence Government of India


Drawing Title : GENERAL ARRANGEMENT DRAWING FOR EXTRADOSSED BRIDGE OVER SIANG RIVER AT CH, 2+908Km			
Drawing Number : VKSIMPL/P-134/BRO/GAD/MJB-01/01 (SH. 1 OF 2)			
Scale : AS SHOWN			
Drawn By : SKG	Designed By : AK	Checked By : ARK	Date : MARCH, 202

Design Consultant :

 **VKS INFRATECH MANAGEMENT PVT. LTD.**
Consulting Engineers, Planners & Managers
Raghunath Bhawan, B-17/882, Block-B, Opp Prachin
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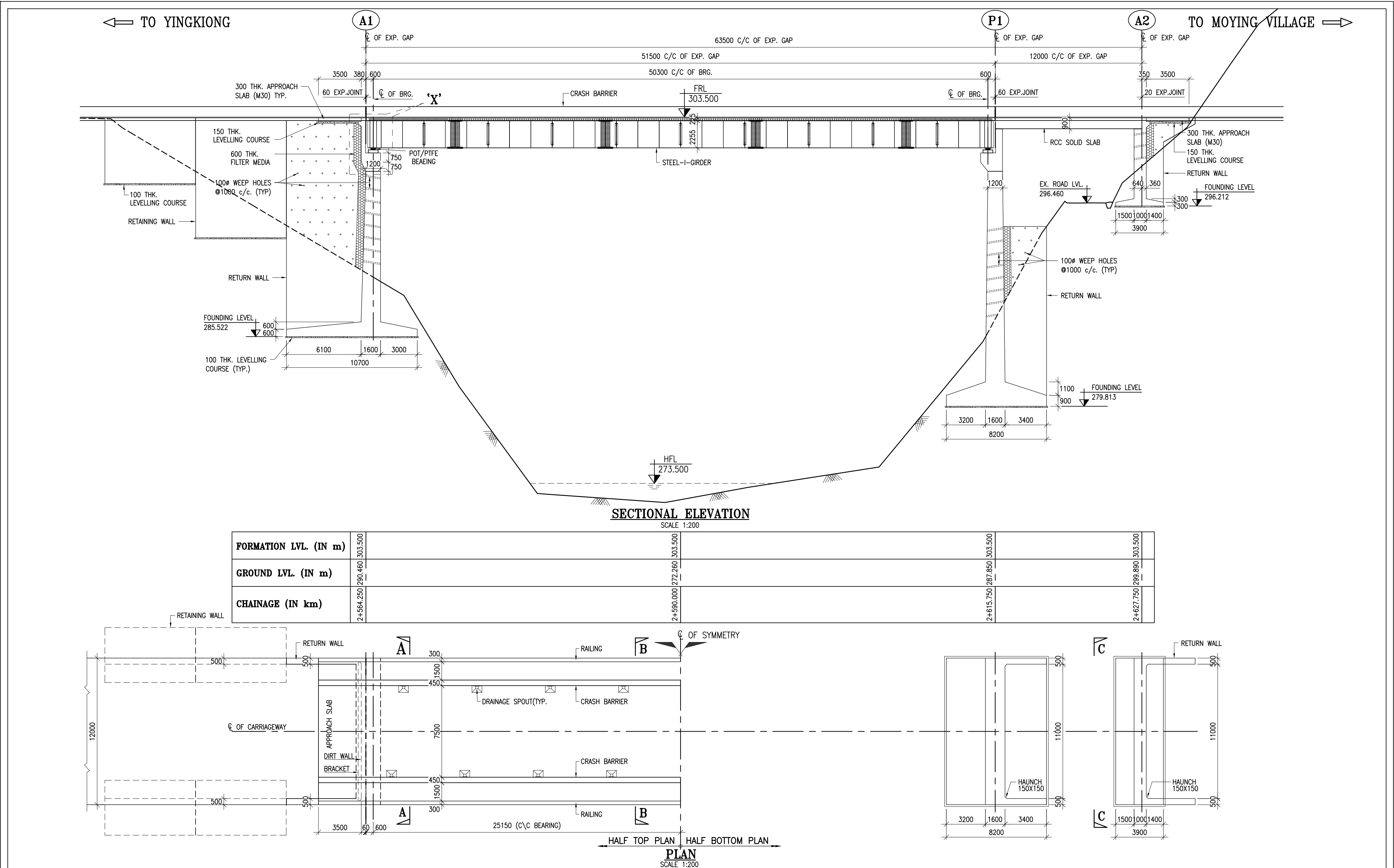
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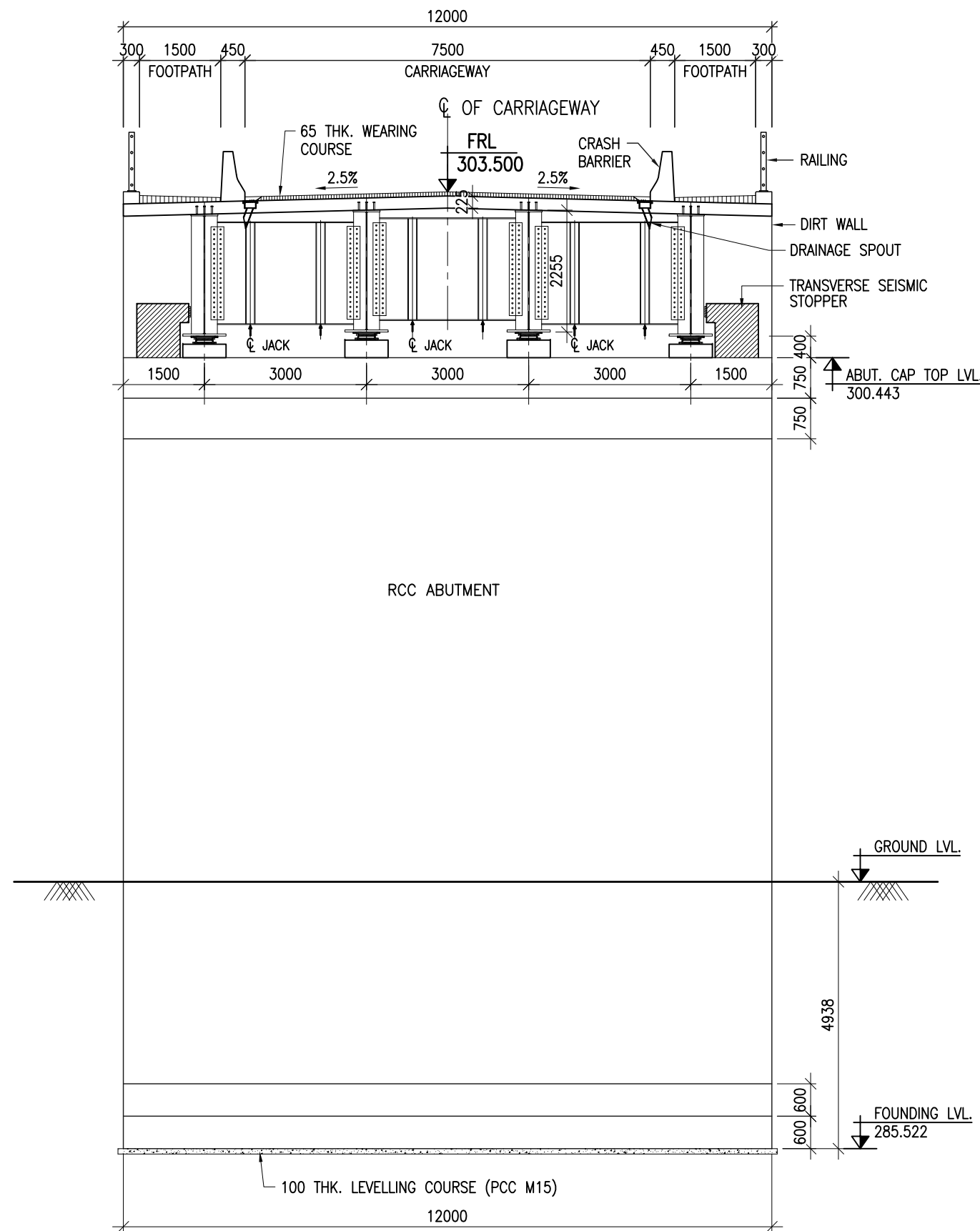
Client :  **Border Roads Organisation**
Ministry of Defence Government of India

n a	Drawing Title : GENERAL ARRANGEMENT DRAWING FOR EXTRADESOD BRIDGE OVER SIANG RIVER AT CH. 2+908KM			
	Drawing Number : VKSIMPL/P-134/BRO/GAD/MJB-01/01 (SH. 2 OF 2)			
	Scale : AS SHOWN			
	Drawn By : SKG	Designed By : AK	Checked By : ARK	Date : MARCH, 20

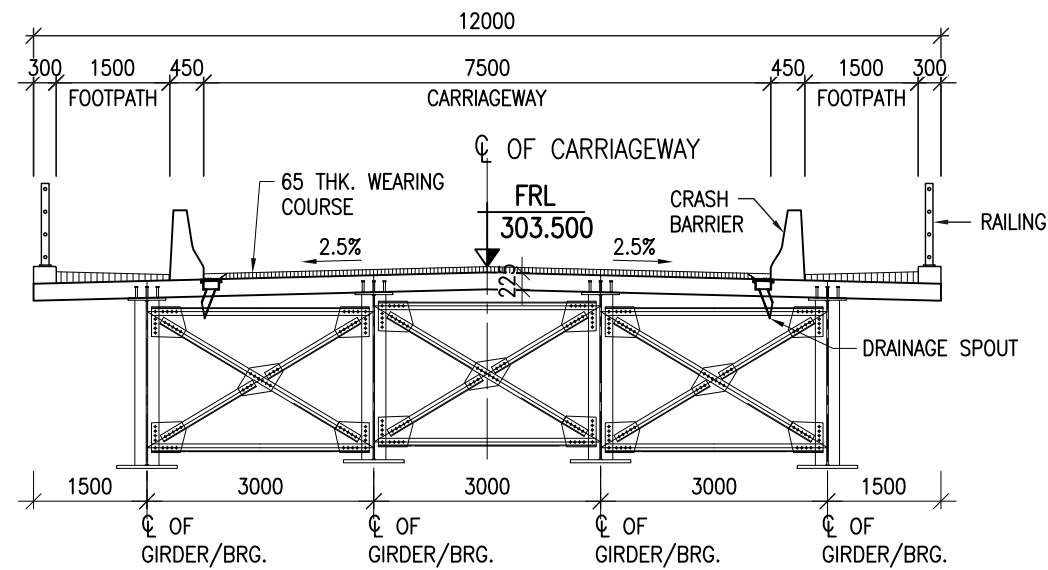
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(Ph: 011-45061563)



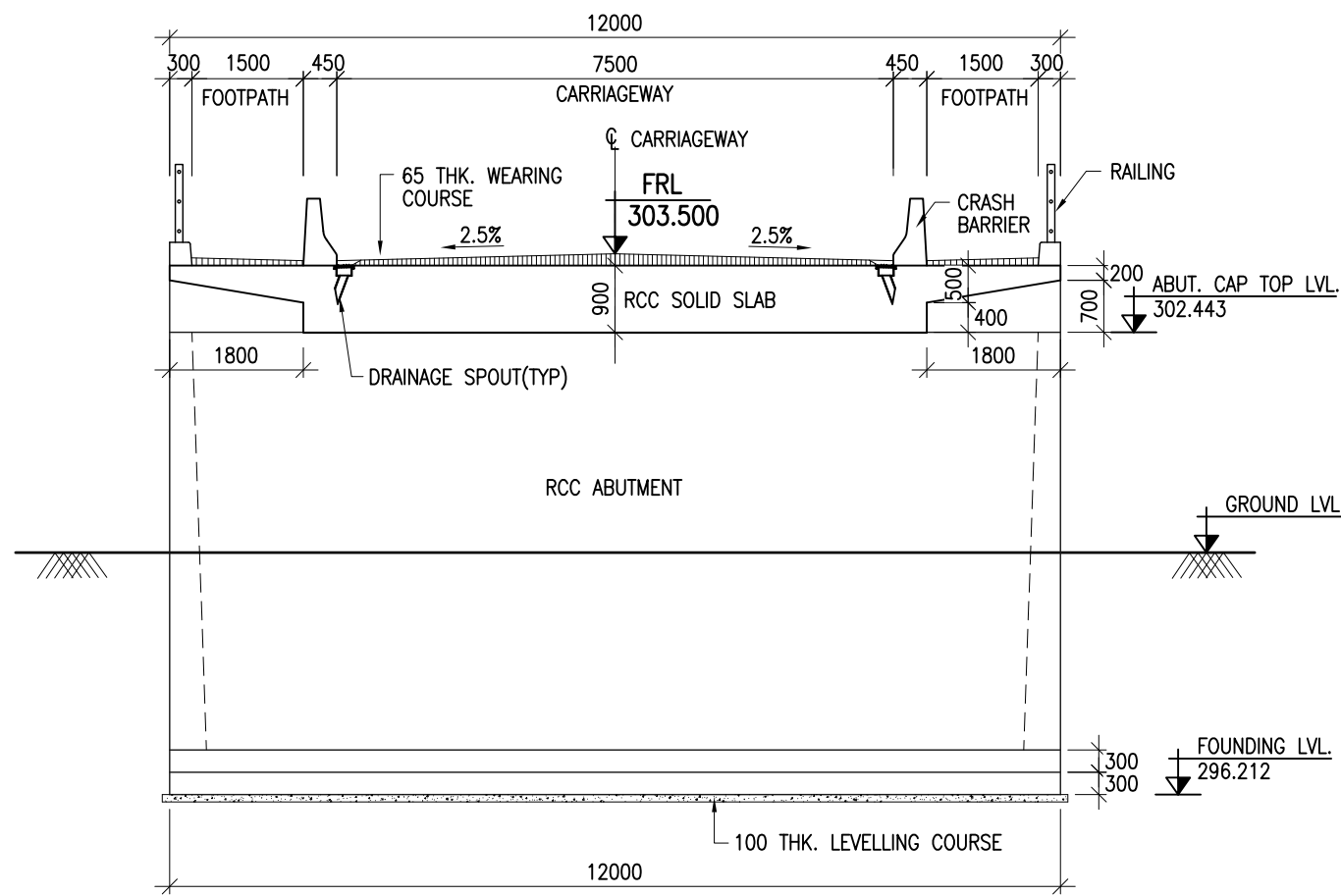
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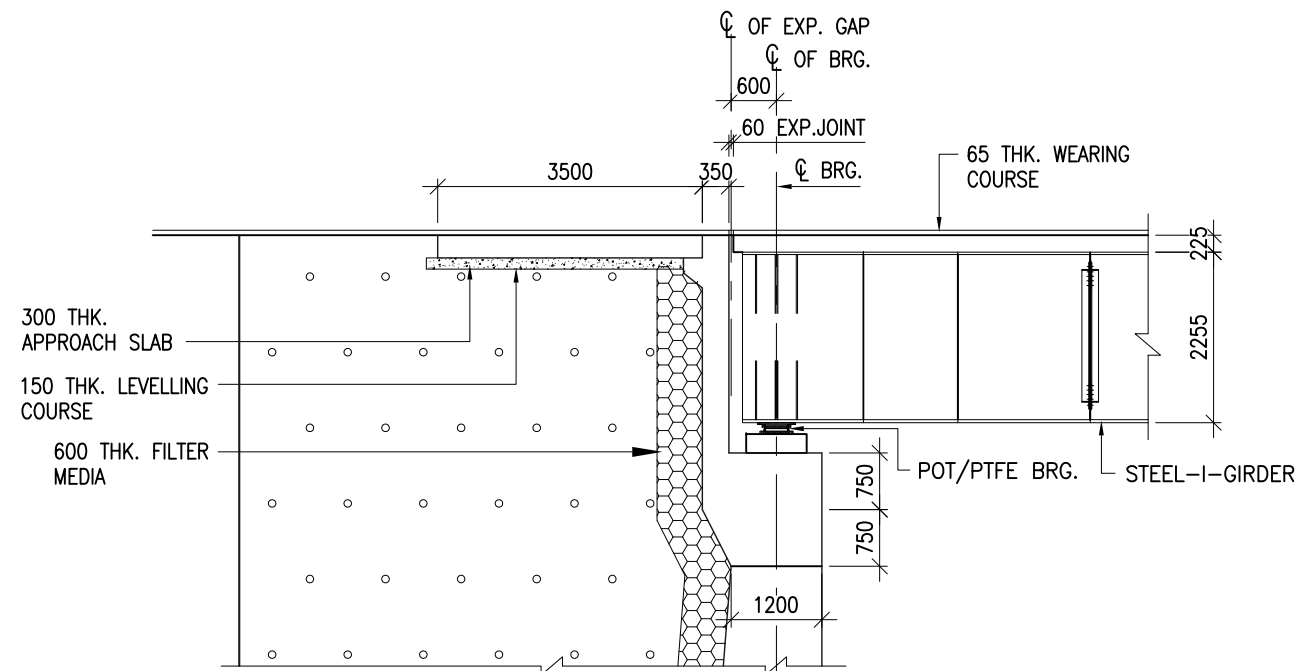
SECTION A-A
(SCALE 1:100)



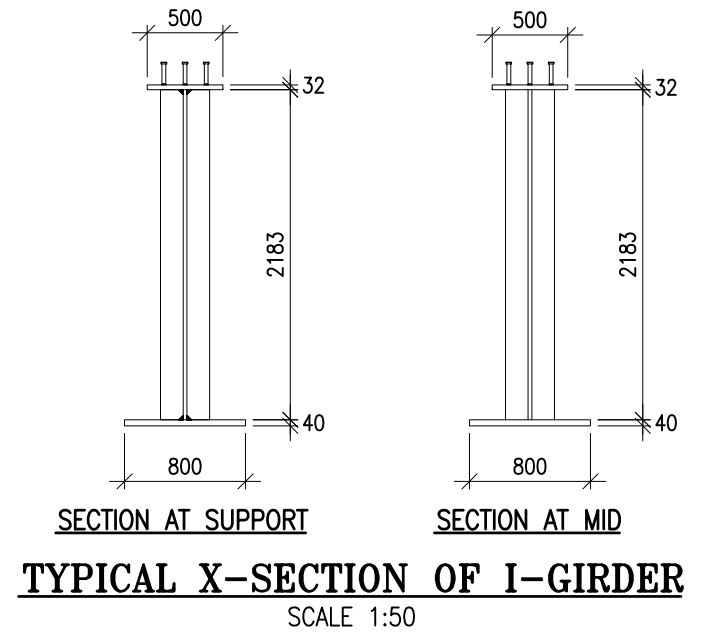
SECTION B-B
(SCALE 1:100)



SECTION C-C
(SCALE 1:100)



DETAIL 'X'
(SCALE 1:100)




TYPICAL X-SECTION OF I-GIRDER
(SCALE 1:50)

NOTES:

- ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN METRES UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED. NO DIMENSIONS SHALL BE SCALED.
- STRUCTURE IS DESIGNED FOR 3 LANES OF CLASS A OR 1 LANE OF 70R + 1 LANE OF CLASS A WHICHEVER GOVERNS.
- CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC STRENGTH AS FOLLOWS:
RCC DECK SLAB - M40
STEEL I-GIRDER - E350(Fe490) B0
PEDESTAL - M45
ABUTMENT SHAFT - M45
OPEN FOUNDATION - M45
APPROACH SLAB - M30
LEVELLING COURSE (PCC) - M15
- REINFORCEMENT STEEL SHALL BE HYSD BARS OF GRADE DESIGNATION Fe-500D CONFORM TO IS:1786.
- 65mm TH. WEARING COURSE COMPRISING OF UNDER LAYER OF 40mm THK. ASPHALTIC CONCRETE OVERLAID WITH 25mm THK MASTIC SPHALT. PROVIDED AS PER SECTION 500 OF MORTH SPECIFICATIONS.
- STRIP SEAL TYPE EXPANSION JOINTS OF PROVEN QUALITY SHALL BE PROVIDED.
- WEEP HOLES, SPACED AT 1000 c/c BOTH HORIZONTALLY AND VERTICALLY SHALL BE PROVIDED IN A STAGGERED MANNER IN ABUTMENT & RETURN WALL.

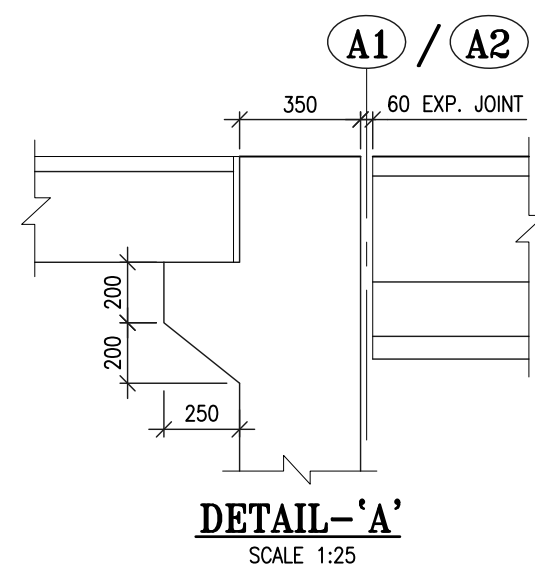
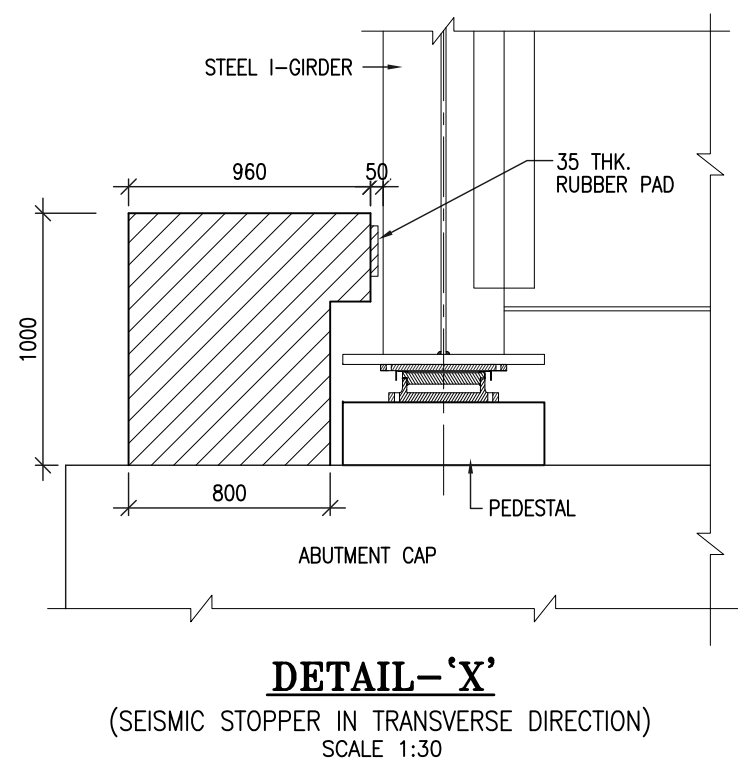
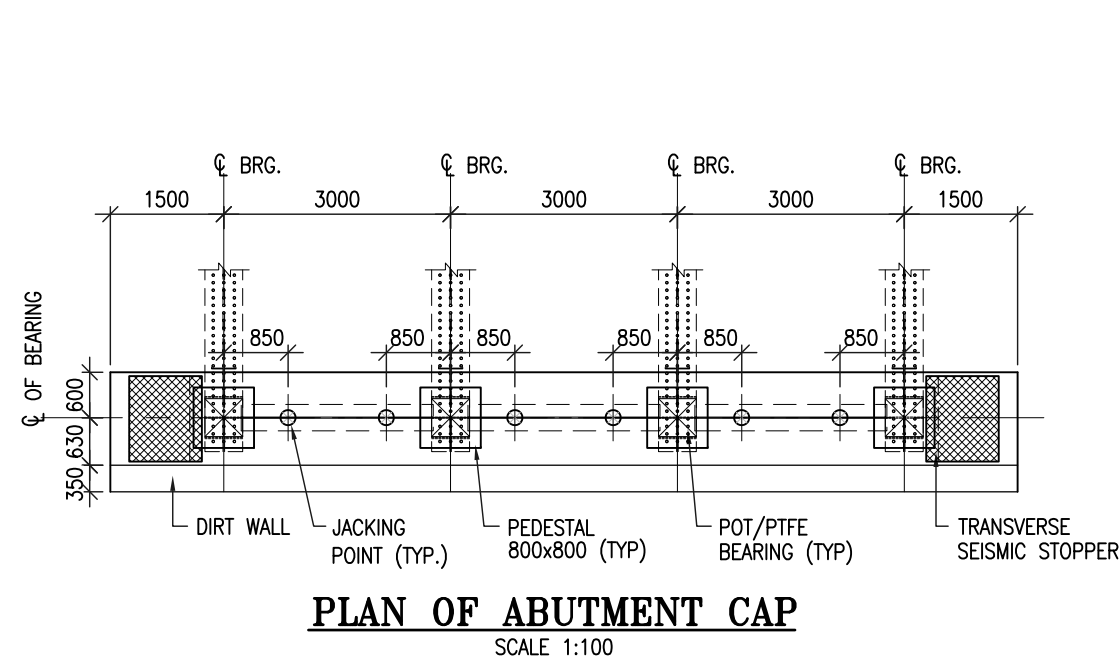
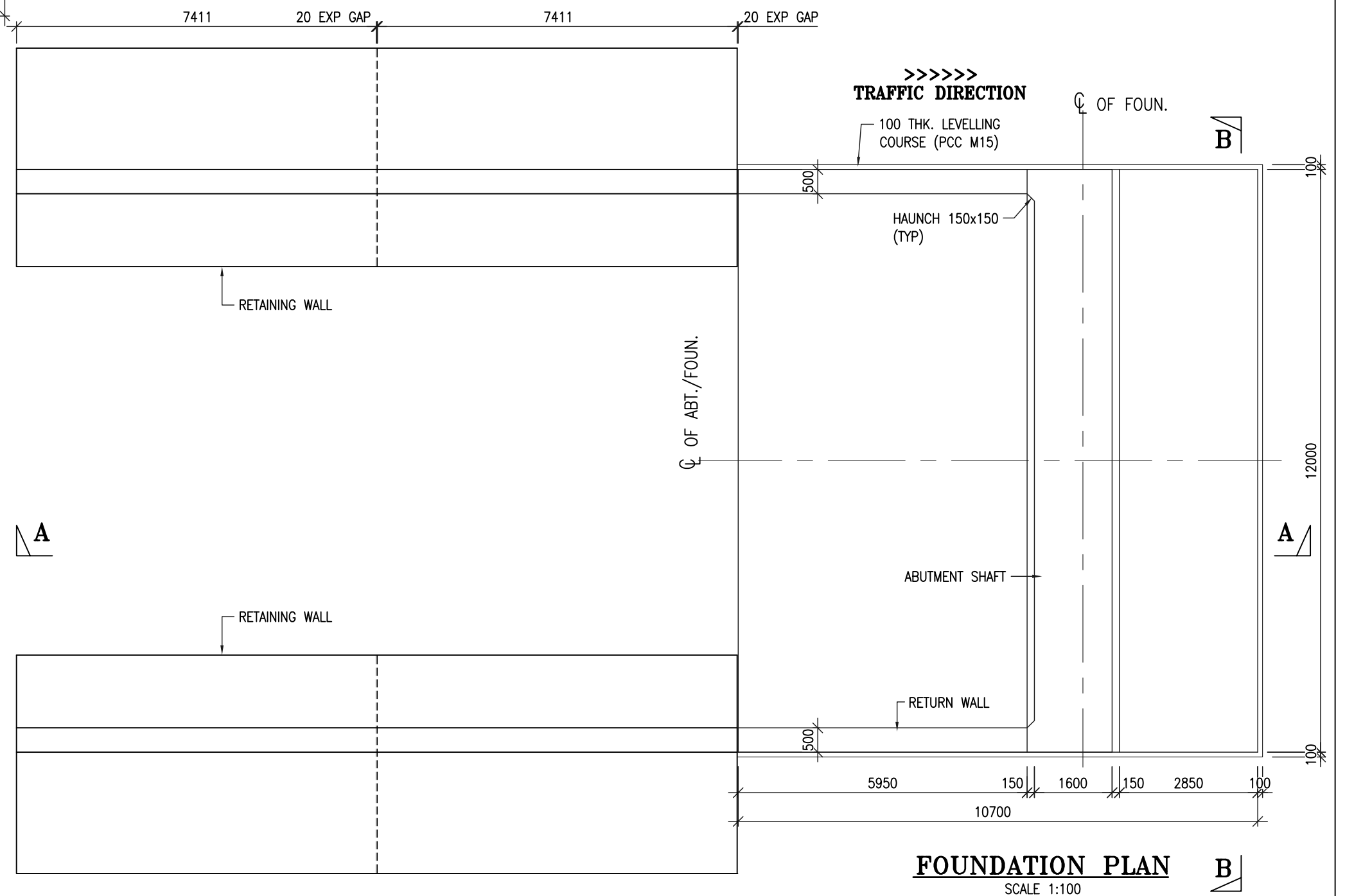
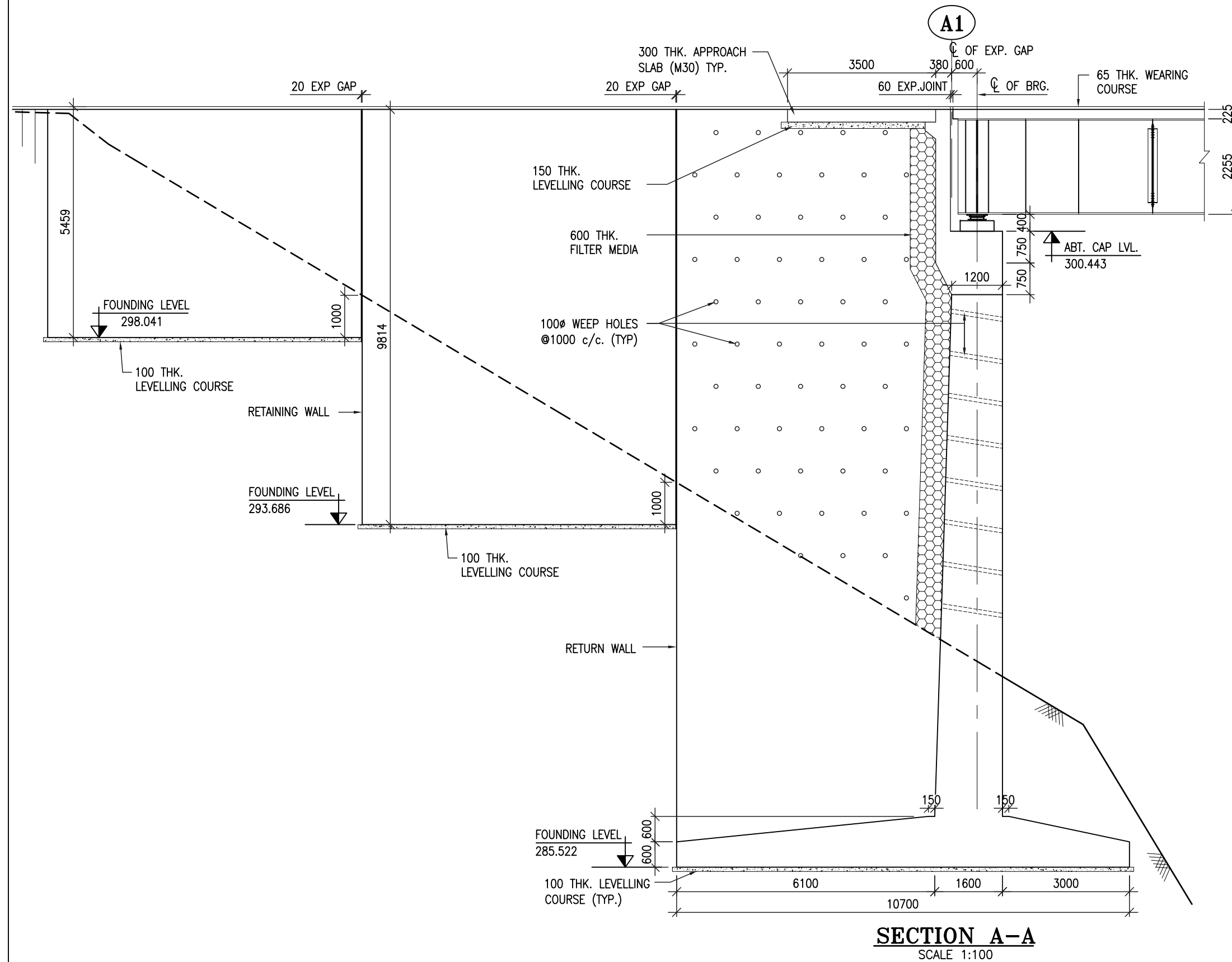
Revision Details	By	CHK	Date	Suffix

Project Title :
Consultancy Services for Feasibility Study, Preparation of Detailed Project Report (DPR) and Providing Preconstruction Services (including Selection of Site, Type of bridge, Sub Soil Investigation, Estimation, Preparation of Tender documents etc.) (Indicative length of Bridge-300 mtr & Approach Road -4.50 Kms) over Siang River at Km 93.50 on Ditte-Dimme-Migging Road under 761 BRTF of Project Brahman in Arunachal Pradesh State

Client :
 **Border Roads Organisation**
 Ministry of Defence Government of India

Drawing Title :
GENERAL ARRANGEMENT DRAWING FOR MAJOR BRIDGE AT CH. 2+590.000 (1x51.50+1x12.00m SPAN)
 Drawing Number :
 VKSIMPL/P-134/BRO/MJB-02/01 (SH. 2 OF 2)
 Scale :
 AS SHOWN
 Drawn By : SKG
 Designed By : AK
 Checked By : ARK
 Date : March 2022

Design Consultant :
 **VKS INFRATECH MANAGEMENT PVT. LTD.**
Consulting Engineers, Planners & Managers
Raghunath Bhawan, B-17/882, Block-B, Opp Prachin Shiv Mandir, New Ashok Nagar, Delhi - 110096 (Ph: 011-45061563)



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 2. MINIMUM GRADE OF CONCRETE SHALL BE M45 IN ABUTMENT A1, AND M35 IN ABUTMENT A2 & GRADE OF STEEL IS Fe-500.
 3. FOLLOWING DRAWINGS SHALL BE READ IN CONJUNCTION WITH DRG. NO.
VKSIMPL/P-134/BRO/MJB-02/01 FOR GAD.
VKSIMPL/P-134/BRO/MISC/01 FOR DETAILS OF APPROACH SLAB.
VKSIMPL/P-134/BRO/MISC/02 FOR DETAILS OF CRASH BARRIER.
VKSIMPL/P-134/BRO/MISC/03 FOR DETAILS DRAINAGE SPOUT.

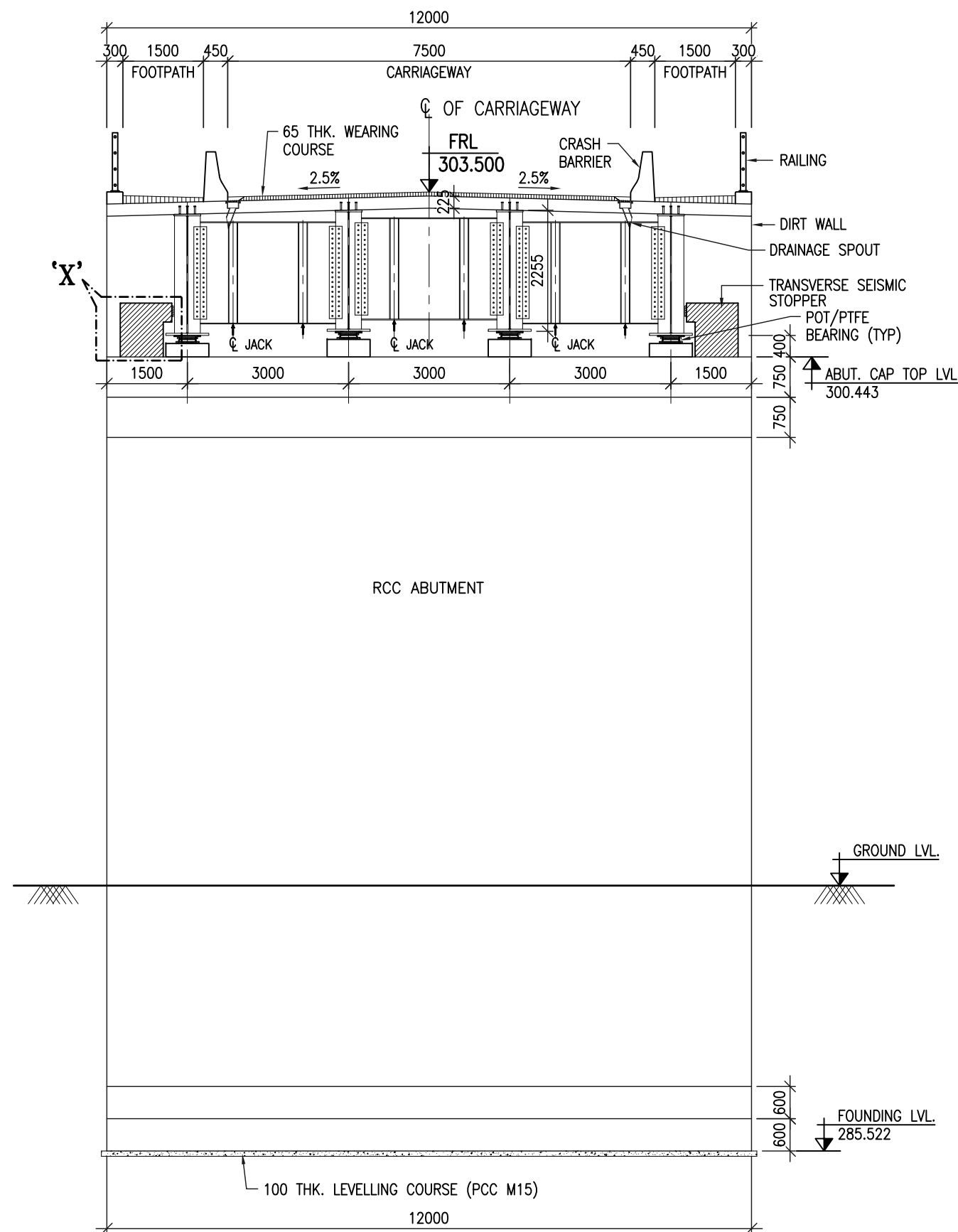
Revision Details	By	CHK	Date	Suffix

Project Title :
Consultancy Services for Feasibility Study, Preparation of Detailed Project Report (DPR) and Providing Preconstruction Services (including Selection of Site, Type of bridge, Sub Soil Investigation, Estimation, Preparation of Tender documents etc.) (Indicative length of Bridge-300 mtr & Approach Road -4.50 Kms) over Siang River at Km 93.50 on Ditte-Dimme-Migging Road under 761 BRTF of Project Brahman in Arunachal Pradesh State

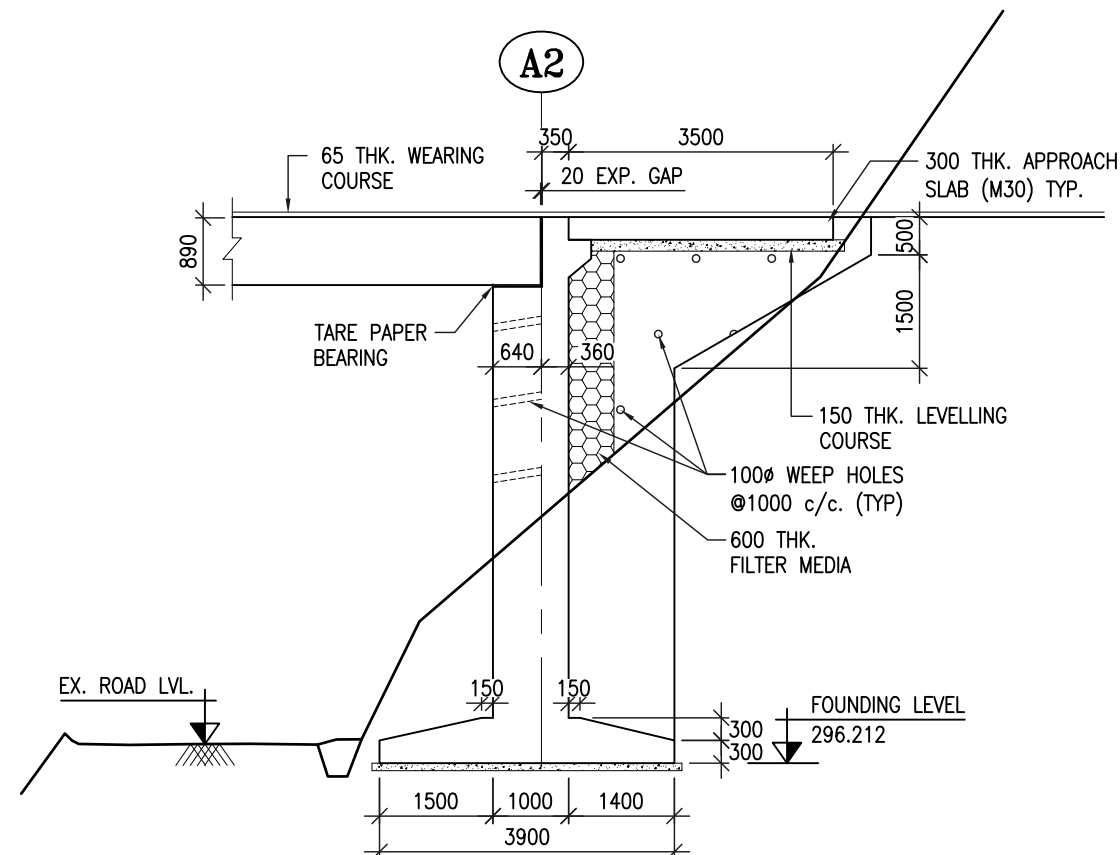
Client :
Border Roads Organisation
 Ministry of Defence Government of India

Drawing Title :
DIMENSION DETAILS OF SUBSTRUCTURE & FOUNDATION FOR ABUTMENT
 Drawing Number :
VKSIMPL/P-134/BRO/MJB-02/02 (SH. 1 OF 2)
 Scale :
AS SHOWN
 Drawn By :
SKG
 Designed By :
AK
 Checked By :
ARK
 Date :
March 2022

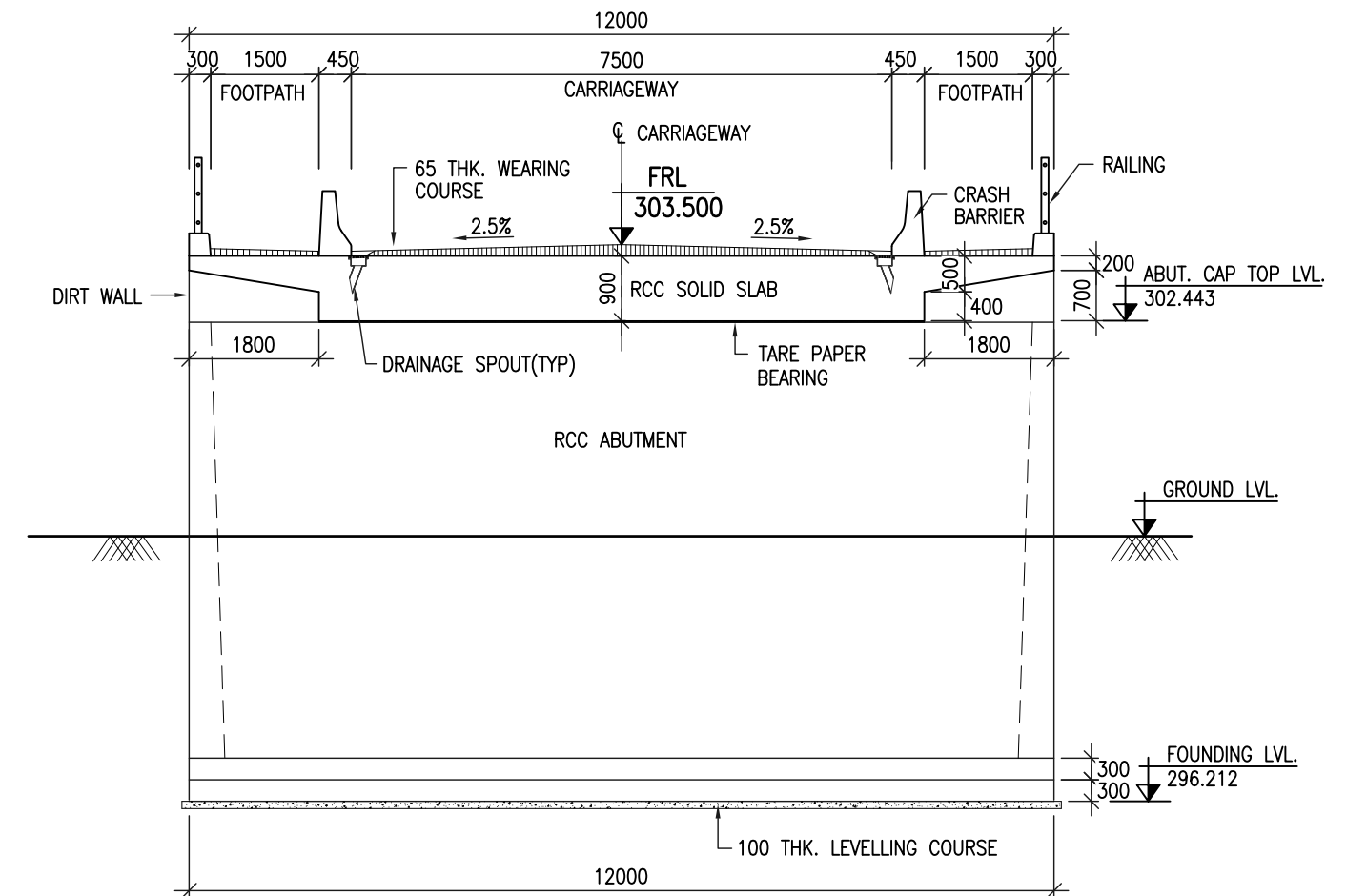
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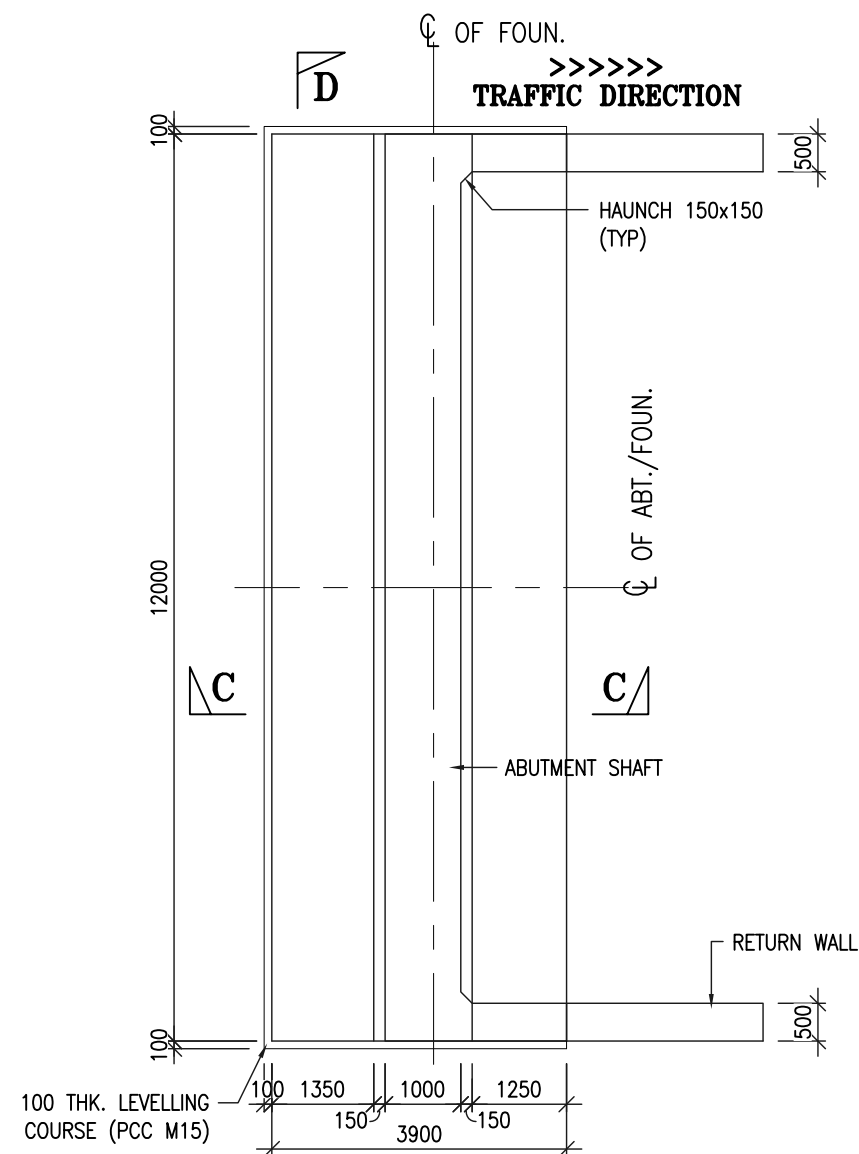
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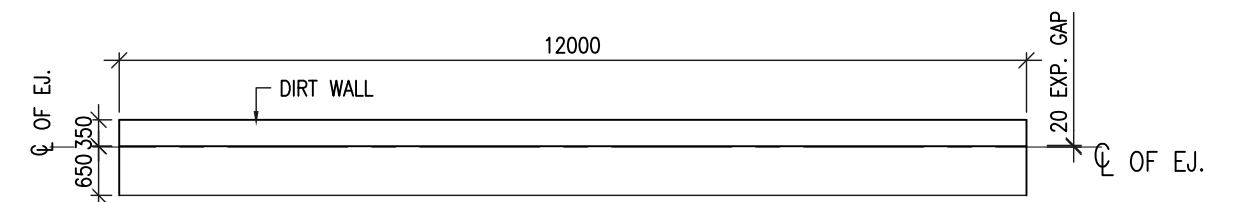
SECTION C-C
SCALE 1:100



SECTION D-D
SCALE 1:100



FOUNDATION PLAN AT ABUTMENT-A2
SCALE 1:100

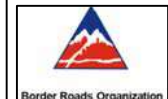


PLAN OF ABUTMENT CAP
SCALE 1:100

NOTES:

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VKSIMPL/P-134/BRO/MJB-02/01 FOR GAD.
VKSIMPL/P-134/BRO/MISC/01 FOR DETAILS OF APPROACH SLAB.
VKSIMPL/P-134/BRO/MISC/02 FOR DETAILS OF CRASH BARRIER.
VKSIMPL/P-134/BRO/MISC/03 FOR DETAILS DRAINAGE SPOUT.

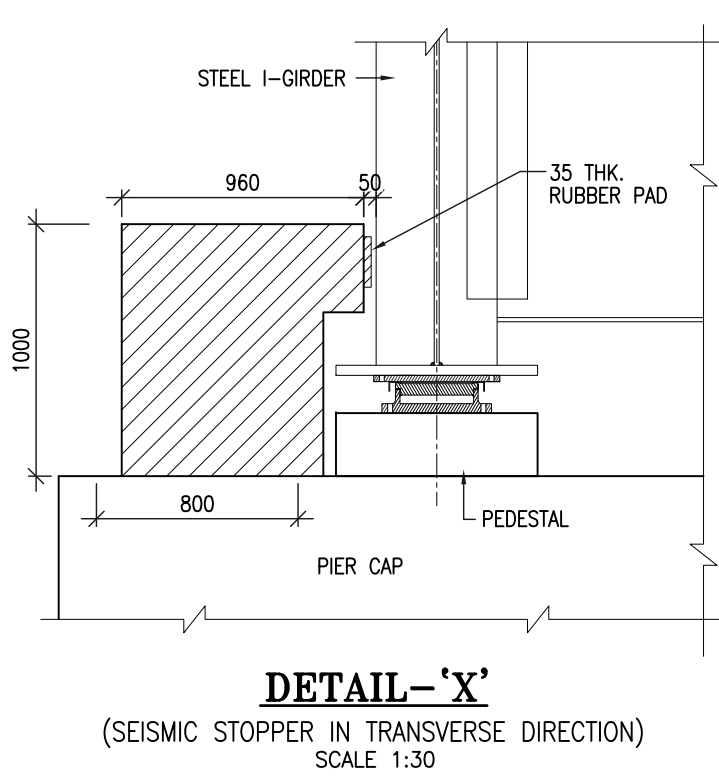
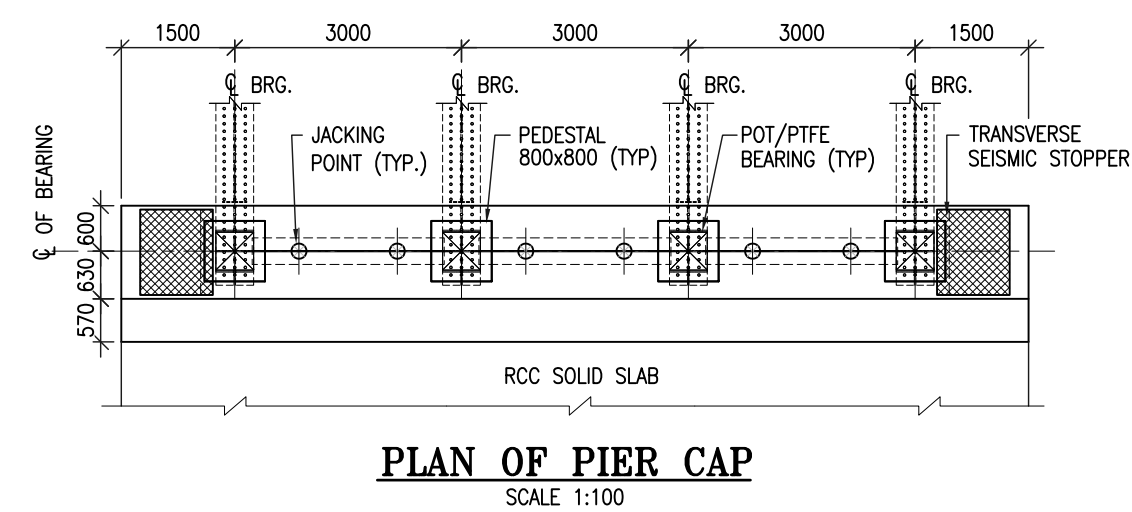
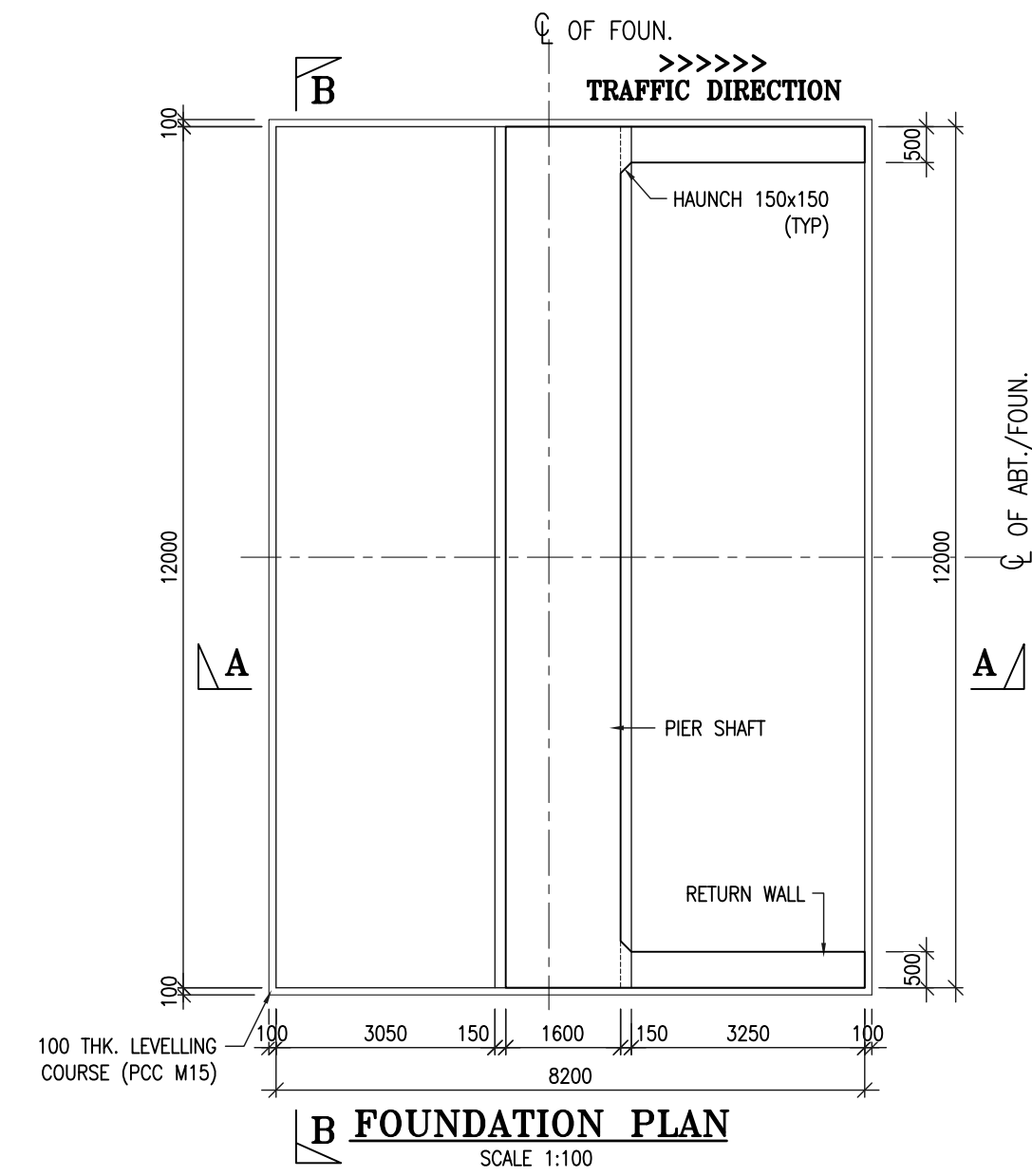
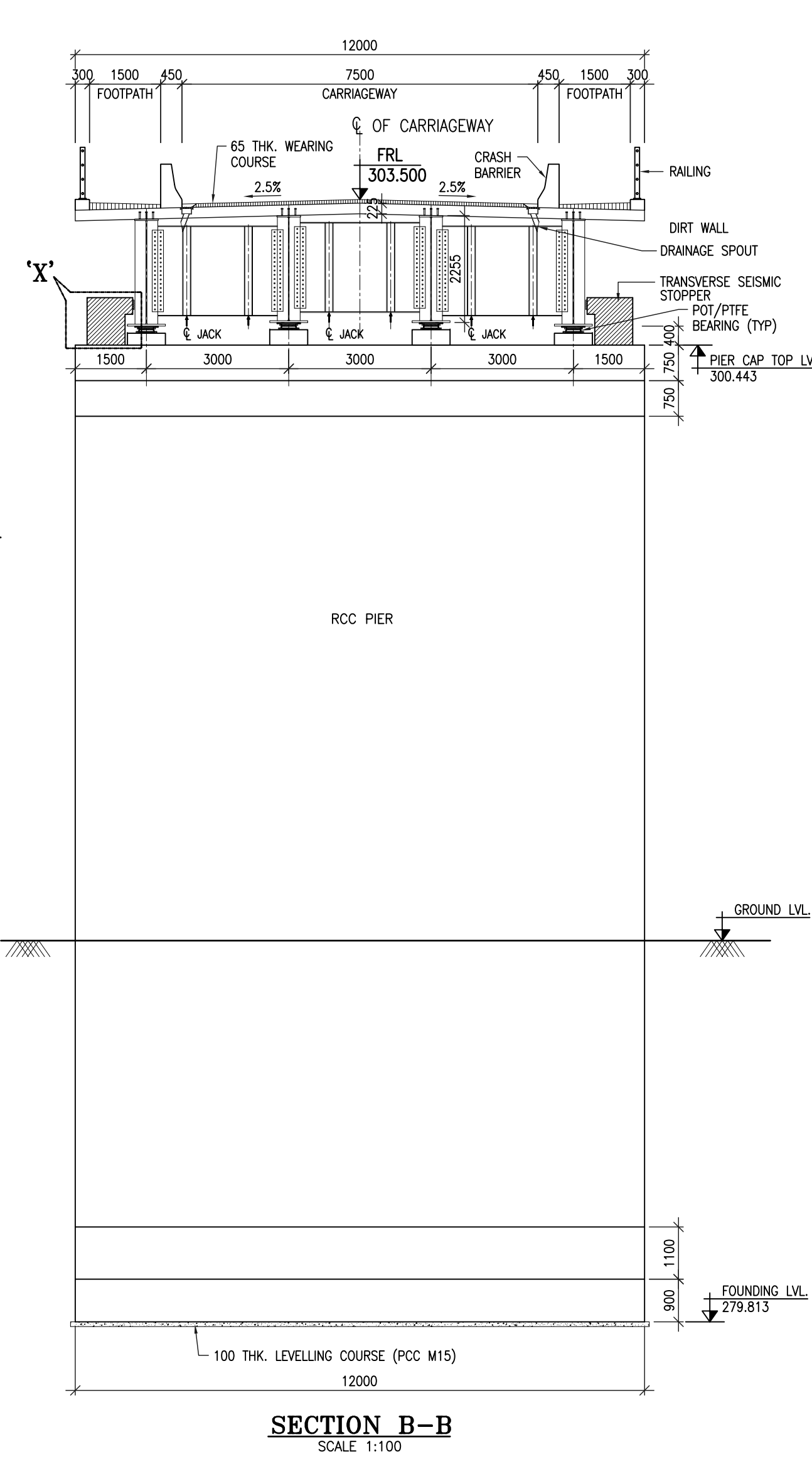
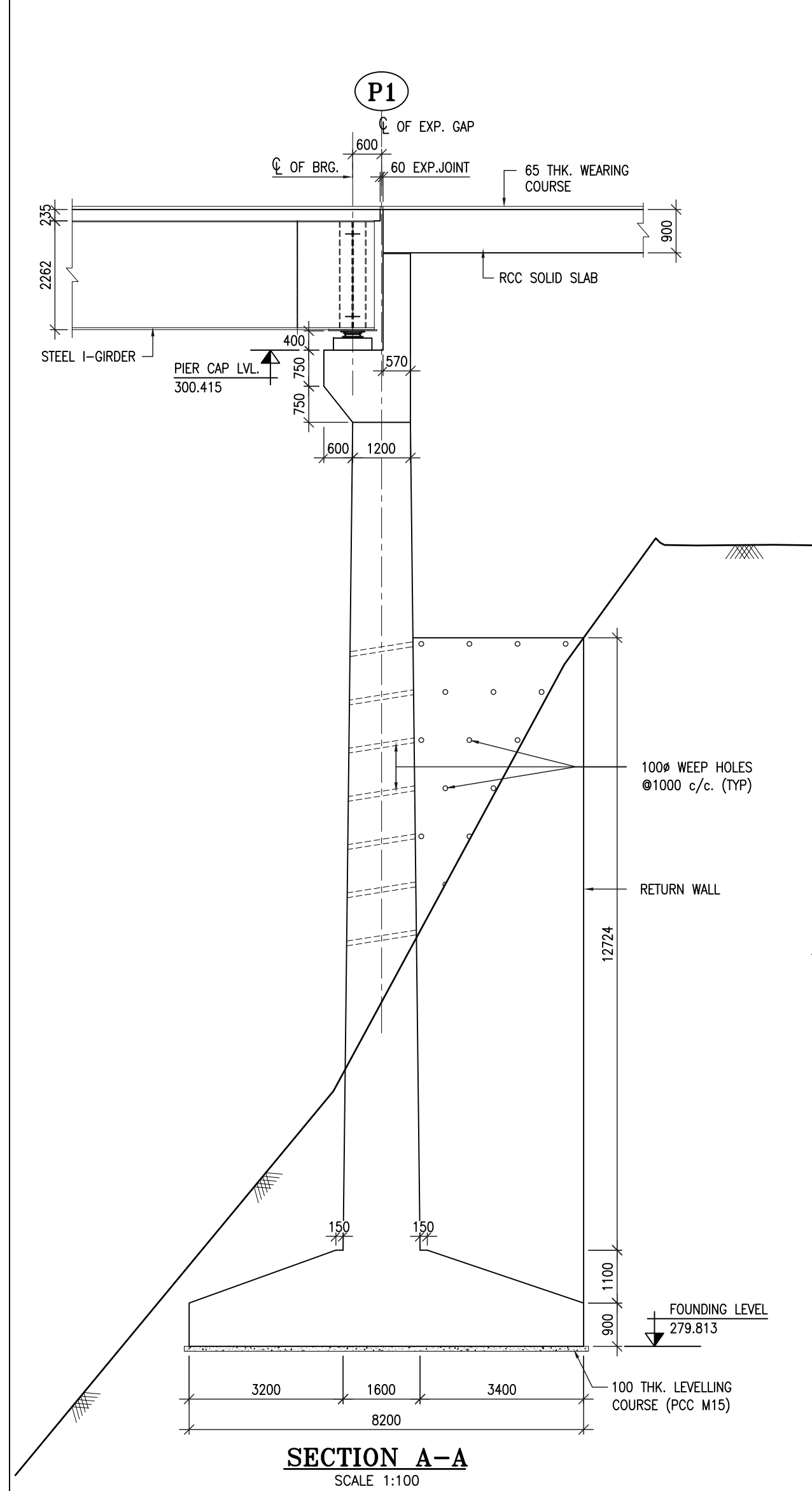
Project Title :
Consultancy Services for Feasibility Study, Preparation of Detailed Project Report (DPR) and Providing Preconstruction Services (including Selection of Site, Type of bridge, Sub Soil Investigation, Estimation, Preparation of Tender documents etc.) (Indicative length of Bridge-300 mtr & Approach Road -4.50 Kms) over Siang River at Km 93.50 on Ditte-Dimme-Migging Road under 761 BRTF of Project Brahman in Arunachal Pradesh State

Client :
 **Border Roads Organisation**
Ministry of Defence Government of India

Drawing Title :
DIMENSION DETAILS OF SUBSTRUCTURE & FOUNDATION FOR ABUTMENT
Drawing Number :
VKSIMPL/P-134/BRO/MJB-02/02 (SH. 2 OF 2)

Scale :
AS SHOWN
Drawn By : SKG
Designed By : AK
Checked By : ARK
Date : March 2022

Design Consultant :
 **VKS INFRATECH MANAGEMENT PVT. LTD.**
Consulting Engineers, Planners & Managers
Raghunath Bhawan, B-17/882, Block-B, Opp Prachin Shiv Mandir, New Ashok Nagar, Delhi - 110096
(Ph: 011-45061563)



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VKSIMPL/P-134/BRO/MJB-02/01 FOR GAD.
VKSIMPL/P-134/BRO/MISC/01 FOR DETAILS OF APPROACH SLAB.
VKSIMPL/P-134/BRO/MISC/02 FOR DETAILS OF CRASH BARRIER.
VKSIMPL/P-134/BRO/MISC/03 FOR DETAILS DRAINAGE SPOUT.

Revision Details	By	Chk	Date	Suffix

Project Title :
Consultancy Services for Feasibility Study, Preparation of Detailed Project Report (DPR) and Providing Preconstruction Services (including Selection of Site, Type of bridge, Sub Soil Investigation, Estimation, Preparation of Tender documents etc.) (Indicative length of Bridge-300 mtr & Approach Road -4.50 Kms) over Siang River at Km 93.50 on Ditte-Dimme-Migging Road under 761 BRTF of Project Brahman in Arunachal Pradesh State

Client :
Border Roads Organisation
 Ministry of Defence Government of India

Drawing Title :
DIMENSION DETAILS OF SUBSTRUCTURE & FOUNDATION FOR PIER

Drawing Number :
 VKSIMPL/P-134/BRO/MJB-02/03

Scale :
 AS SHOWN

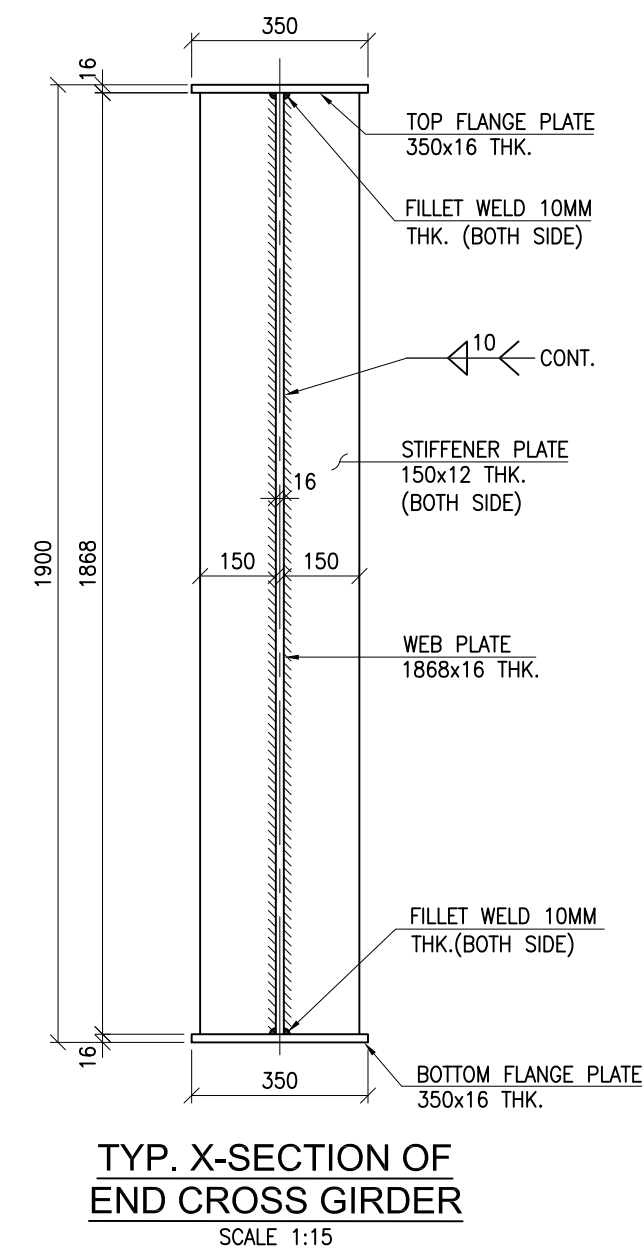
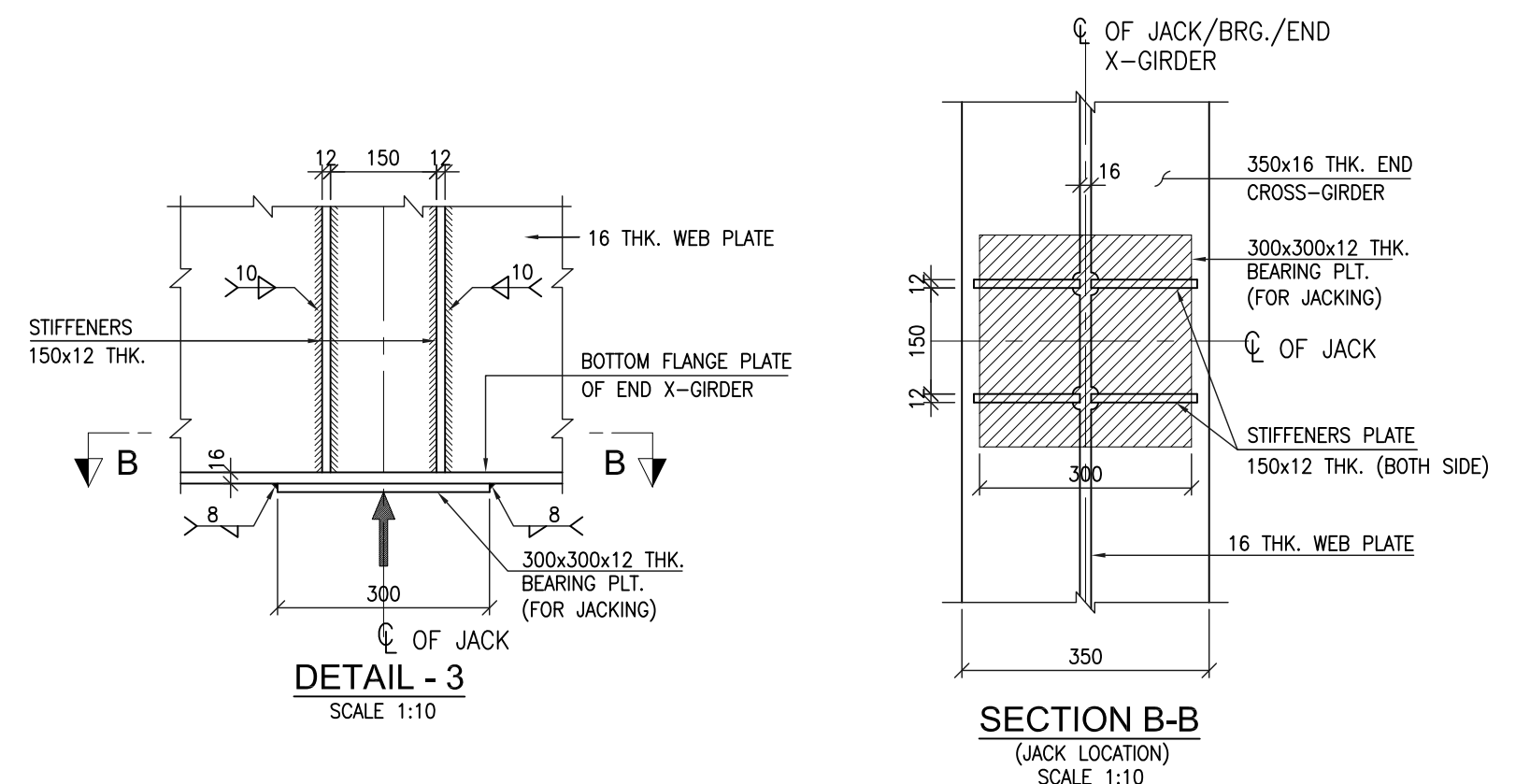
Drawn By :
 SKG

Designed By :
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 ARK

Date :
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Design Consultant :
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NOTES:-

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2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH SHEET 1, 3 & 4 OF 4 OF THIS DRAWING.

[illegible]

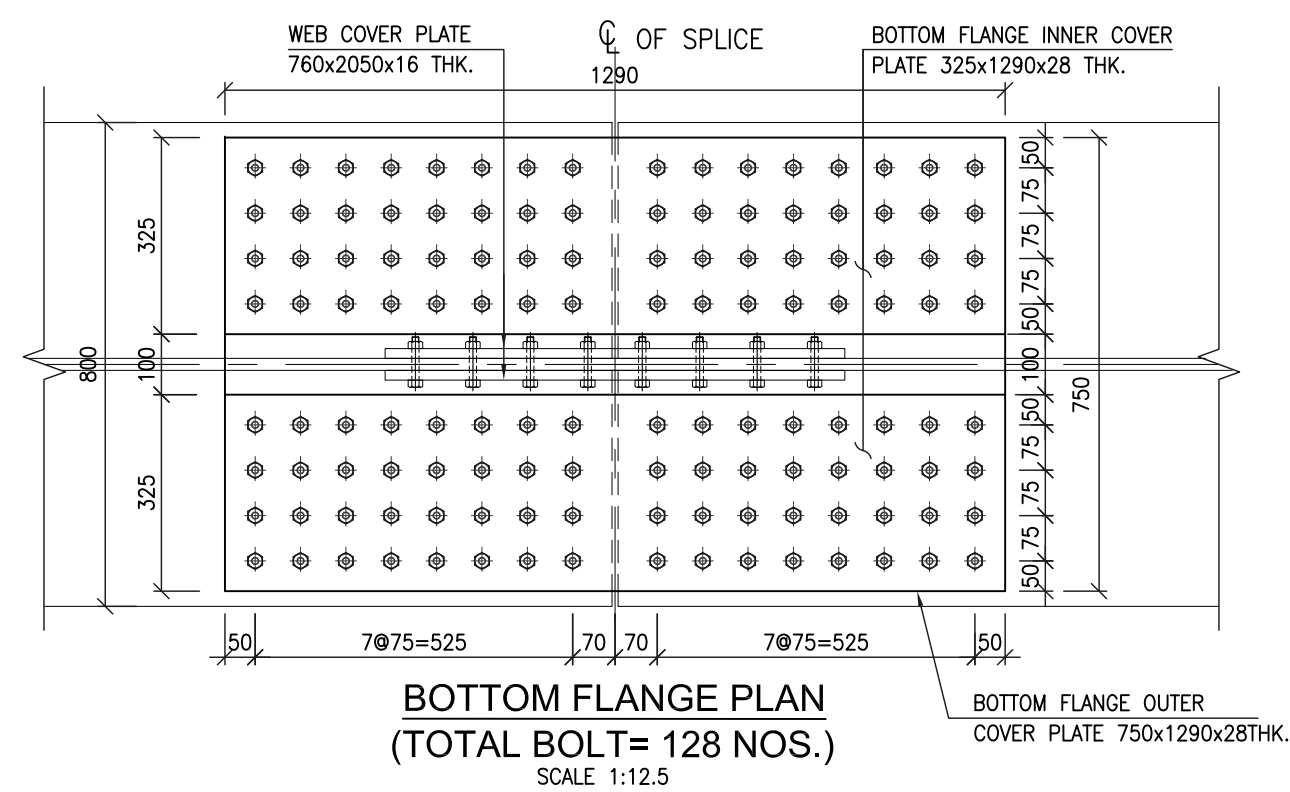
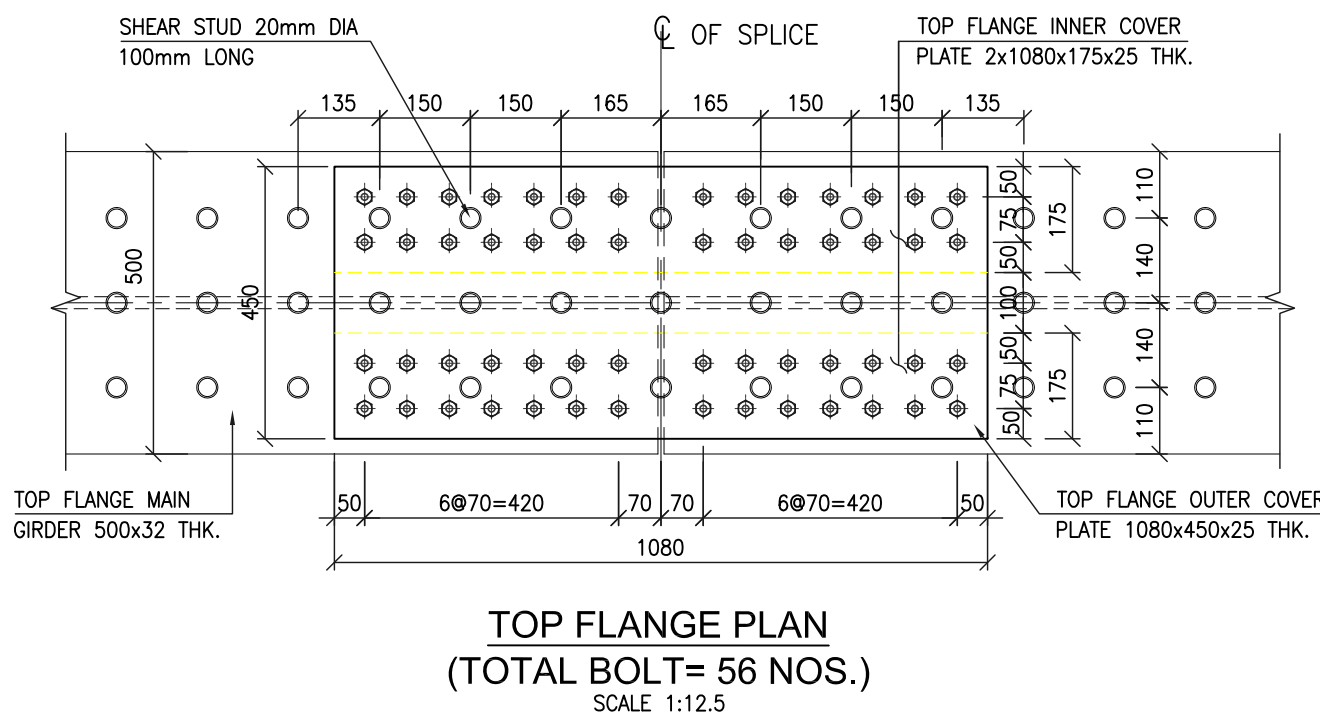
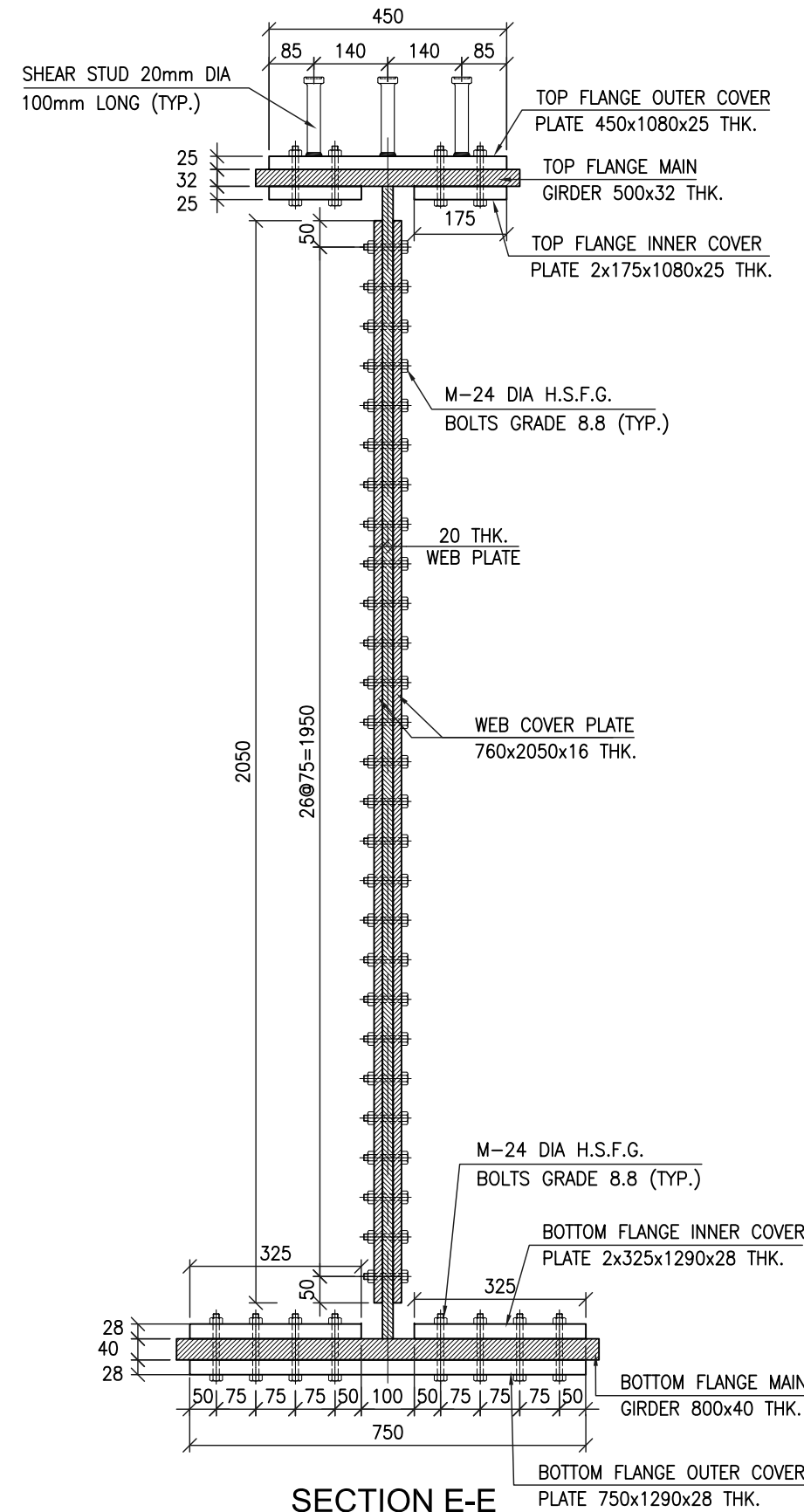
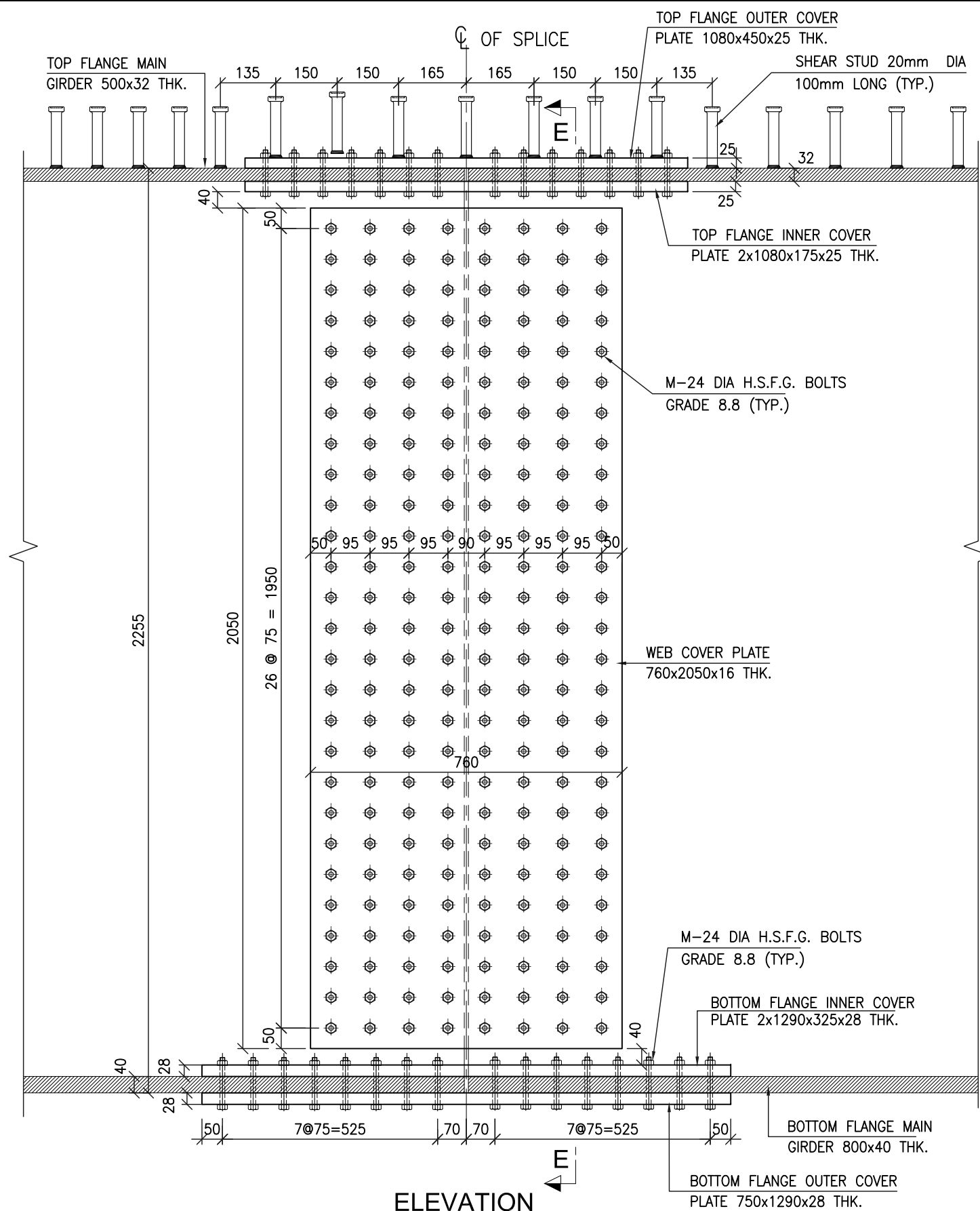
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---------------	--

Client :  **Border Roads Organisation**
Ministry of Defence Government of India

Drawing Title : DIMENSION DETAILS OF SUPER STRUCTURE (STEEL COMPOSITE GIRDER)			
Drawing Number : VKSIMPLP-134/BRO/MJB-02/06 (SH. 2 OF 4)			
Scale : AS SHOWN			
Drawn By : SKG	Designed By : AK	Checked By : ARK	Date : MARCH, 2022

Design Consultant :


 VKS INFRATECH MANAGEMENT PVT. LTD.
Consulting Engineers, Planners & Managers
Raghu Nath Bhawan, B-17/882, Block-B, Opp Prachin
Shiv Mandir, New Ashok Nagar, Delhi - 110096
(Ph: 011-45061563)



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- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS.
 - DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
 - STRUCTURE STEEL
 - STEEL PLATE GIRDER HIGH STRENGTH STEEL (GRADE E-350 (Fe490) B0 CONFORMING TO IS : 2062 - 2011)
 - STIFFENERS & BRACING HIGH STRENGTH STEEL GREATER THAN OR EQUAL TO PARENT METAL CONFORMING TO IS : 2062 - 2011)
 - DECK SLAB SHALL BE OF CONCRETE GRADE M-40 MIX.
 - POT-PTFE BEARINGS SHALL BE USED.
 - BOLTS:-
 - FOR SPlicing - 24Ø BOLTS.
 - FOR BRACINGS & STIFFENERS - 24Ø BOLTS
 - BOLTS ACTING IN FRICTION
 - HSFG - BOLTS, ACTING IN FRICTION TO CONFORM WITH BS:5400-3. THE NOMENCLATURE OF THESE BOLTS, WHILST BEING DESCRIBED IN DRAWINGS IS TO FOLLOW IS : 4000 - 1992.
 - SLIP FACTORS FOR FAYING SURFACES TO CONFORM TO BS : 5400 PART 3.
 - BOLTS ACTING IN TENSION
 - HSFG - BOLTS, NOT ACTING IN FRICTION BUT PRE STRESSED TO PREVENT LOOSENING OF BOLTS/NUTS DUE TO VIBRATION TO CONFORM TO IS : 3757-1985. GR 8.8 BOLTS. DESIGN TO CONFORM TO BS : 5400 PART-3. BUT AT ULS ONLY.
 - WELDING CONSUMABLES
 - THE WELDING CONSUMABLES TO CONFORM TO IS : 814-1991 AND OF STRENGTH REQUIREMENTS APPROPRIATE FOR PREHEATED HT STEEL OR UN-HEATED MILD STEEL..
 - ALL FILLET WELDS ARE TO BE EXAMINED BY DYE PENETRANT TEST OR ANY EQUALLY EFFECTIVE NON DESTRUCTIVE TEST METHOD.
 - ALL WELDS TO BE MADE BY WELDERS USING APPROVED WELDING PROCEDURES.
 - MEMBERS SHALL BE RIGIDLY SECURED IN JIGS & FIXTURES WITH TEMPORARY BOLTS DURING WELDING TO AVOID DISTORTION.
 - DURING WELDING POSITION OF MEMBERS AND ASSEMBLY SHOULD BE SUCH THAT OVERHEAD WELDING SHALL BE AVOID/ MINIMISED.
 - FABRICATION SHALL BE DONE AS PER IRC: 24, IS: 816 & IS: 1024.
 - ALL THE MEMBERS MEETING AT A JOINTS SHOULD BE CONNECTED AS PER DETAILS.
 - ALL STRUCTURAL ROLLED SECTIONS & BUILT UP SECTIONS STEEL SHALL CONFORM TO IS: 2062.
 - ALL BRACING GUSSETS SHALL BE 12 THICK UNLESS SPECIFIED OTHERWISE.
 - PAINTING OF STEEL STRUCTURE SHOULD BE DONE IN ACCORDANCE WITH MORTH SPECIFICATIONS FOR ROADS & BRIDGES REVISION IV.
 - ALL OBTUSE ANGLE CUTTING SHOULD BE DONE IN PROPER SHAPE AND WITHOUT DAMAGE.
 - OVERHANGING MEMBER TO BE SUITABLY SUPPORTED TO AVOID DISTORTION DURING TRANSPORTATION.
 - IN CASE THE MEMBERS OF SPECIFIED LENGTH ARE NOT AVAILABLE, SPLICE JOINTS TO BE PROVIDED AFTER PRIOR APPROVAL OF ENGINEER IN-CHARGE.
 - MILD STEEL SHEAR STUD ARE PROPOSED.
 - THE GRADE OF THE ELECTRODE SHALL BE GREATER THAN OR EQUAL TO THE PARENT METAL.
 - ALL DIMENSIONS SHALL BE VERIFIED BEFORE EXECUTION OF WORK & RECONCILED AT SITE.
 - THE DRAWING SHALL BE READ IN CONJUNCTION WITH SHEET 1, 2 & 3 OF 4 OF THIS DRAWING.

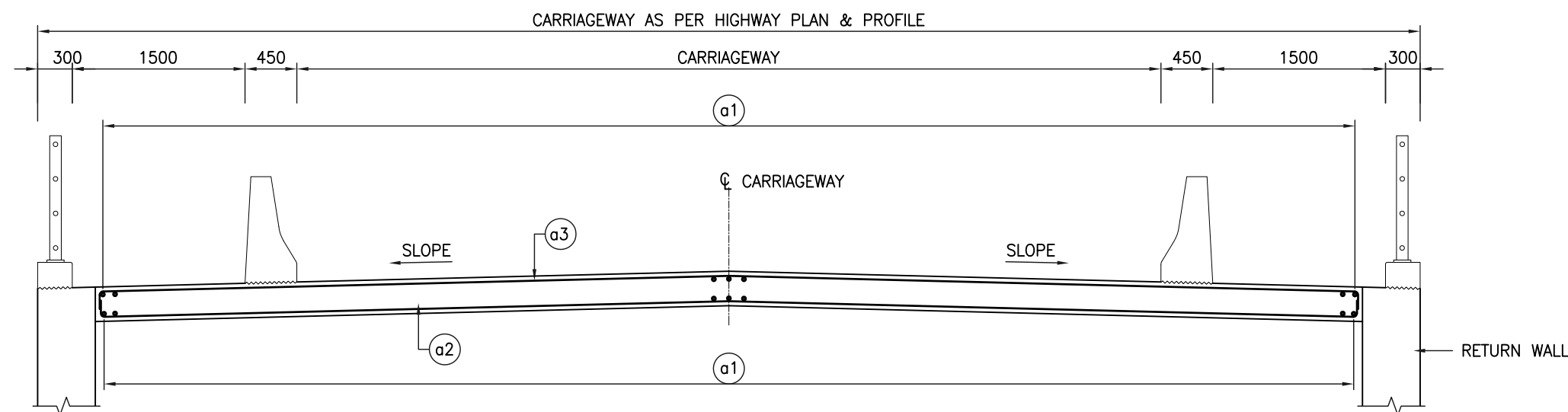
Revision Details	By	CHK	Date	Suffix

Project Title : Consultancy Services for Feasibility Study, Preparation of Detailed Project Report (DPR) and Providing Preconstruction Services (including Selection of Site, Type of bridge, Sub Soil Investigation, Estimation, Preparation of Tender documents etc.) (Indicative length of Bridge-300 mtr & Approach Road -4.50 Kms) over Siang River at Km 93.50 on Ditte-Dimme-Migging Road under 761 BRTF of Project Brahman in Arunachal Pradesh State

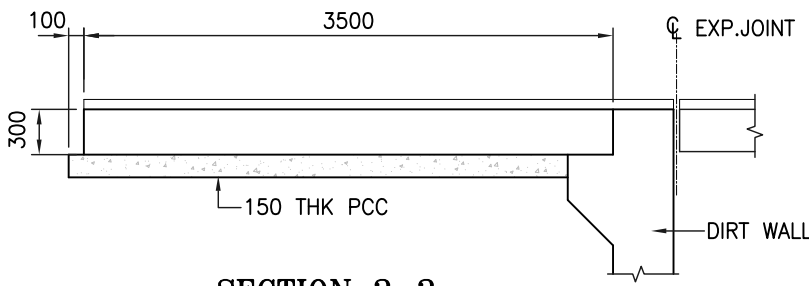
Client :  **Border Roads Organisation**
Ministry of Defence Government of India

Drawing Title : DIMENSION DETAILS OF SUPER STRUCTURE (STEEL COMPOSITE GIRDER)
Drawing Number : VKSIMPL/P-134/BRO/MJB-02/06 (SH. 4 OF 4)
Scale : AS SHOWN
Drawn By : SKG
Designed By : AK
Checked By : ARK
Date : MARCH, 2022

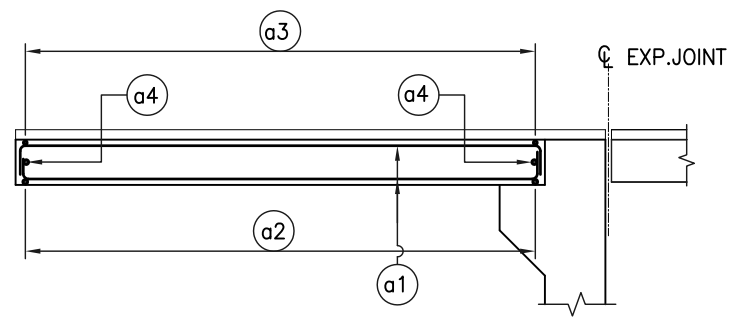
Design Consultant :  **VKS INFRATECH MANAGEMENT PVT. LTD.**
Consulting Engineers, Planners & Managers
Raghunath Bhawan, B-17/882, Block-B, Opp Prachin Shiv Mandir, New Ashok Nagar, Delhi - 110096 (Ph: 011-45061563)



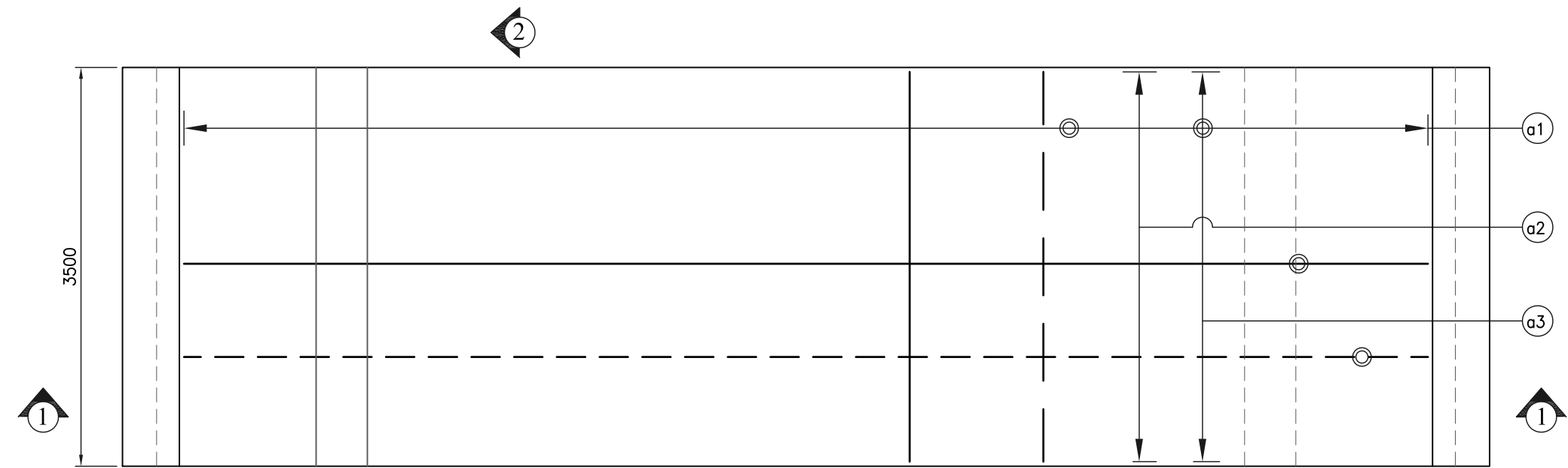
SECTION 1-1
SCALE 1:50



SECTION 2-2
DIM. DET. OF APPROACH SLAB
SCALE 1:50



SECTION 2-2
SCALE 1:50




PLAN OF APPROACH SLAB
SCALE 1:50

LEGEND	
—————	: TOP REINFORCEMENT
-----	: BOTTOM REINFORCEMENT

- NOTES**
1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 2. CONCRETE IN APPROACH SLAB SHALL BE OF M30 GRADE.

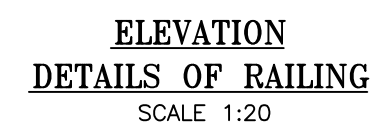
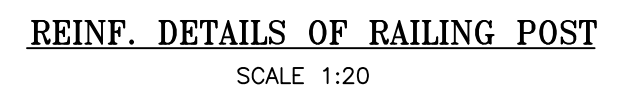
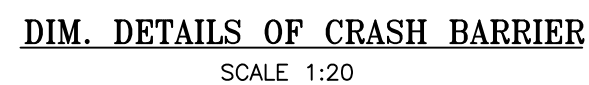
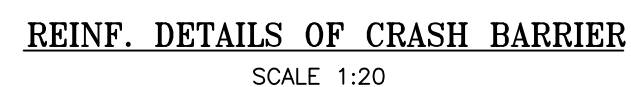
Revision Details	By	CHK	Date	Suffix

Project Title :
Consultancy Services for Feasibility Study, Preparation of Detailed Project Report (DPR) and Providing Preconstruction Services (including Selection of Site, Type of bridge, Sub Soil Investigation, Estimation, Preparation of Tender documents etc.) (Indicative length of Bridge-300 mtr & Approach Road -4.50 Kms) over Siang River at Km 93.50 on Ditte-Dimme-Migging Road under 761 BRTF of Project Brahman in Arunachal Pradesh State

Client :
**Border Roads Organisation**
Ministry of Defence Government of India


Drawing Title : REINFORCEMENT DETAILS OF APPROACH SLAB			
Drawing Number : VKSIMPL/P-134/BRO/MISC/01			
Scale : NTS			
Drawn By : JSR	Designed By : AK	Checked By : ARK	Date : MARCH, 2022

Design Consultant :
**VKS INFRATECH MANAGEMENT PVT. LTD.**
Consulting Engineers, Planners & Managers
Raghunath Bhawan, B-17/882, Block-B, Opp Prachin Shiv Mandir, New Ashok Nagar, Delhi - 110096
(Ph: 011-45061563)



1. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
2. CONCRETE IN CRASH BARRIER SHALL BE OF M40 GRADE.
3. THE CRASH BARRIER SHALL BE CAST IN PANELS OF LENGTH NOT EXCEEDING 5.0m. A 5mm THICK SHALITEX BOARD SHALL BE PROVIDED IN BETWEEN TWO ADJACENT PANELS.
4. CRASH BARRIER REINFORCEMENT TO BE LEFT IN POSITION BEFORE SLAB CASTING.

[illegible]

Client :	 Border Roads Organisation Ministry of Defence Government of India
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1 a	Drawing Title : DETAILS OF CRASH BARRIER & RAILING			
	Drawing Number : VKSIMPL/P-134/BRO/MISC/02			
	Scale : NTS			
	Drawn By : JSR	Designed By : AK	Checked By : ARK	Date : MARCH, 2022

Design Consultant :

 VKS INFRATECH MANAGEMENT PVT. LTD.
Consulting Engineers, Planners & Managers
Raghu Nath Bhawan, B-17/882, Block-B, Opp Prachin
Shiv Mandir, New Ashok Nagar, Delhi - 110096
(Ph: 011-45061563)



- 1) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE MENTIONED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
2. MATERIALS
CONCRETE. - M40
REINFORCEMENT :-Fe-500 (H.Y.S.D. BAR CONFORMING TO IS-1786).
3. THE REINFORCEMENT OF SLAB SHALL BE SUITABLY MODIFIED ACCOMMODATE THE DRAINAGE SPOUT.
4. THE DRAINAGE SPOUT SHALL BE GALVANIZED AFTER WELDING THE PLATES & FLATS.

[illegible]

Design Consultant :



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