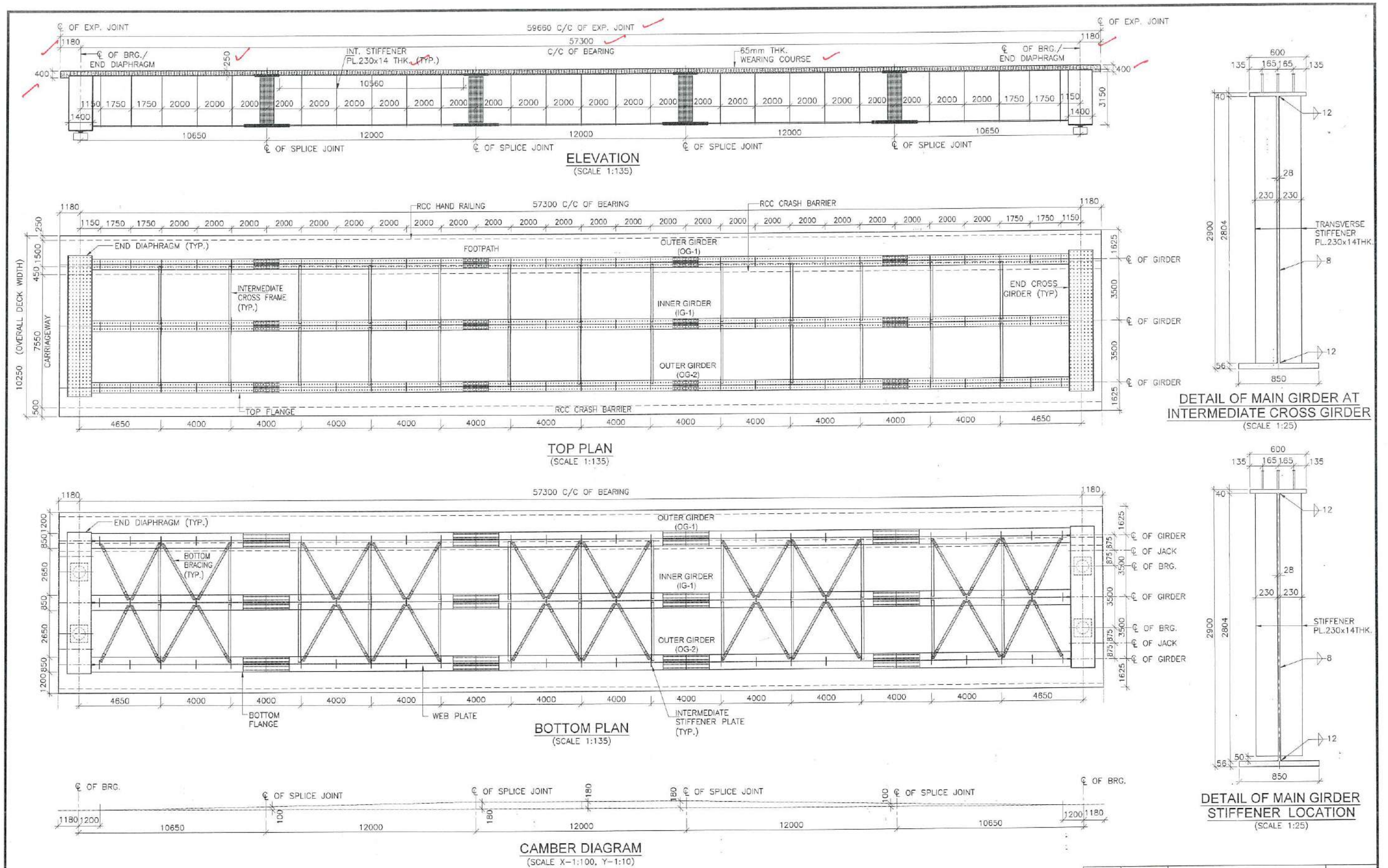
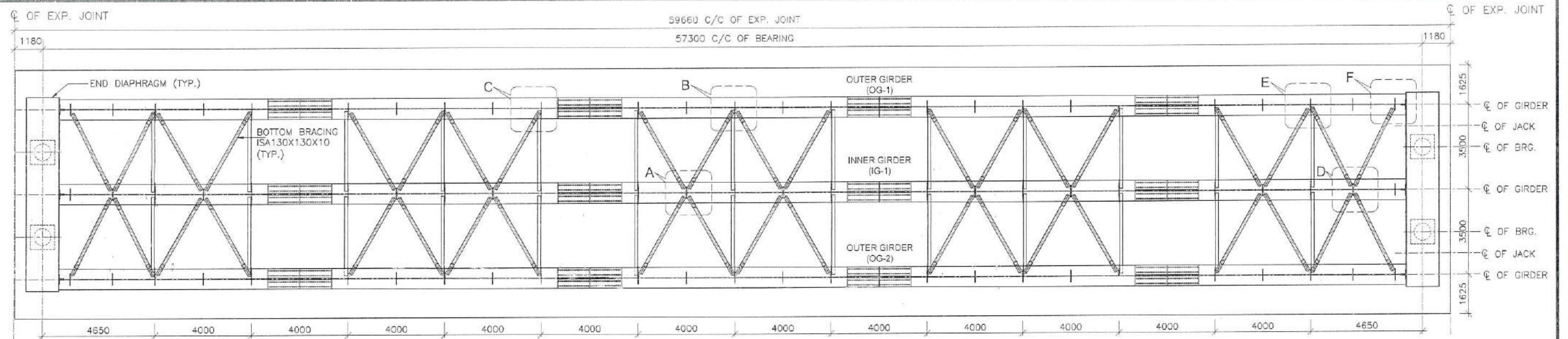


GANDAK RIVER BRIDGE

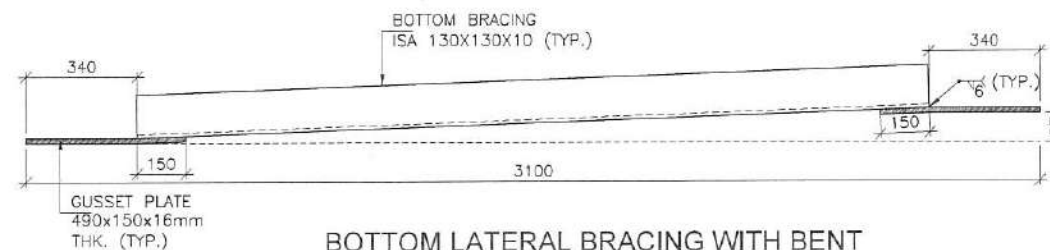
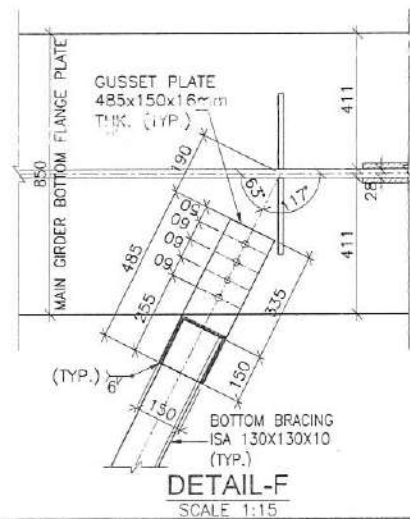
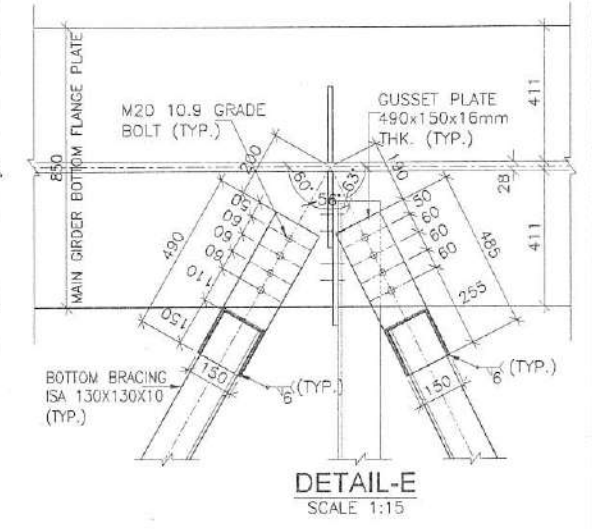
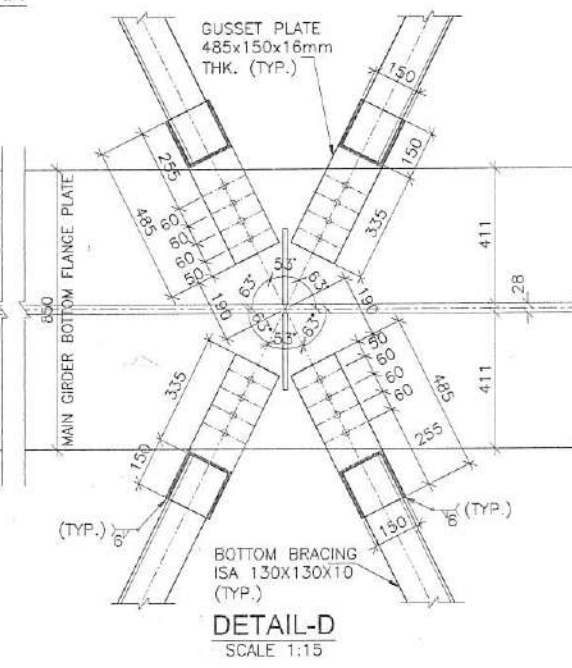
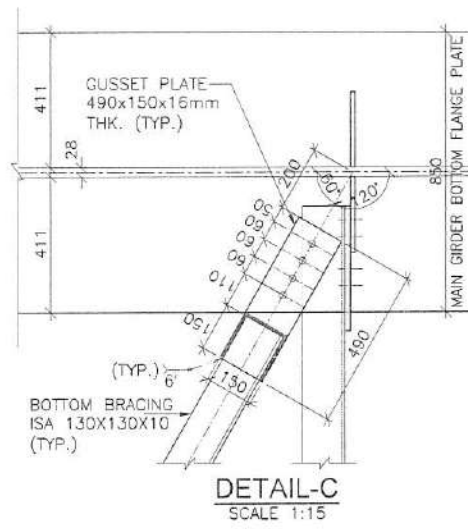
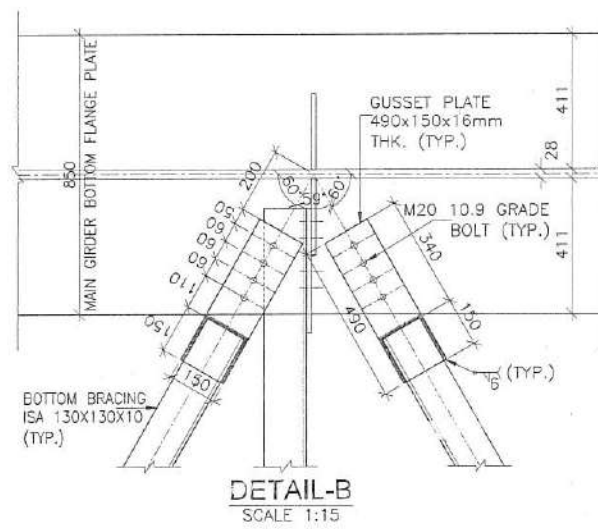
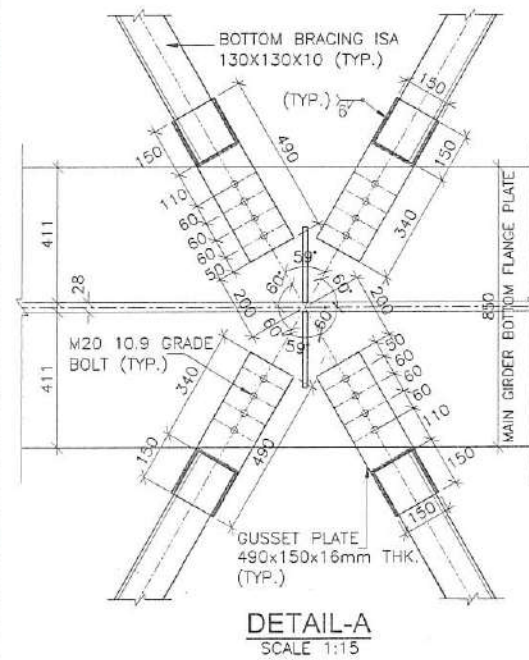
DRAWING OF COMPOSITE
STEEL I-GIRDER SUPERSTRUCTURE
(SPAN 59.660m C/C EXP.)



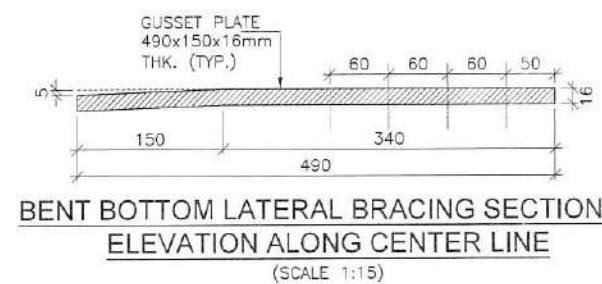
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 NATIONAL HIGHWAYS AUTHORITY OF INDIA Scale: AS SHOWN Project: Construction of Leftover (balance) Portion of New Major Gandak Bridge Including Repair & Rehabilitation Work in km. 423-424 and Construction of 4 Lane LVUP in km. 422 of NH-28 (New NH-27)Contract Package WB-10 Balance Work Phase-III in Bihar					Drawing Title: DIMENSION DETAIL OF LONGITUDINAL GIRDER 57.300m (C/C OF BEARING)		Design Consultant:  Intercontinental Consultants & Technocrats Pvt Ltd, A-8, Green Park, New Delhi - 110016, Ph : 40863000, Fax : 26855252		Rev. No.		Date		Description		Checked By			
									Revisions									
									Drawing No. NHAI/NH-27/GANDAK/SPAN-59.66/SUP-01								Rev. R0	
									Prepared by ARJUN								Designed by ABINASH	



LAYOUT STEEL GIRDER BOTTOM PLAN PLAN
(SCALE 1:118)



BOTTOM LATERAL BRACING WITH BENT
GUSSET ON EITHER END, COMPLETE
(SCALE 1:15)



BENT BOTTOM LATERAL BRACING SECTIONAL
ELEVATION ALONG CENTER LINE
(SCALE 1:15)



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in km. 422 of NH-28 (New NH-27) Contract Package
WB-10 Balance Work Phase-III in Bihar

Drawing Title:

DIMENSION DETAIL OF BOTTOM
BRACING

Design Consultant:



Intercontinental Consultants & Technocrats Pvt Ltd
A-8, Green Park, New Delhi - 110016, Ph : 40863000, Fax : 26355252

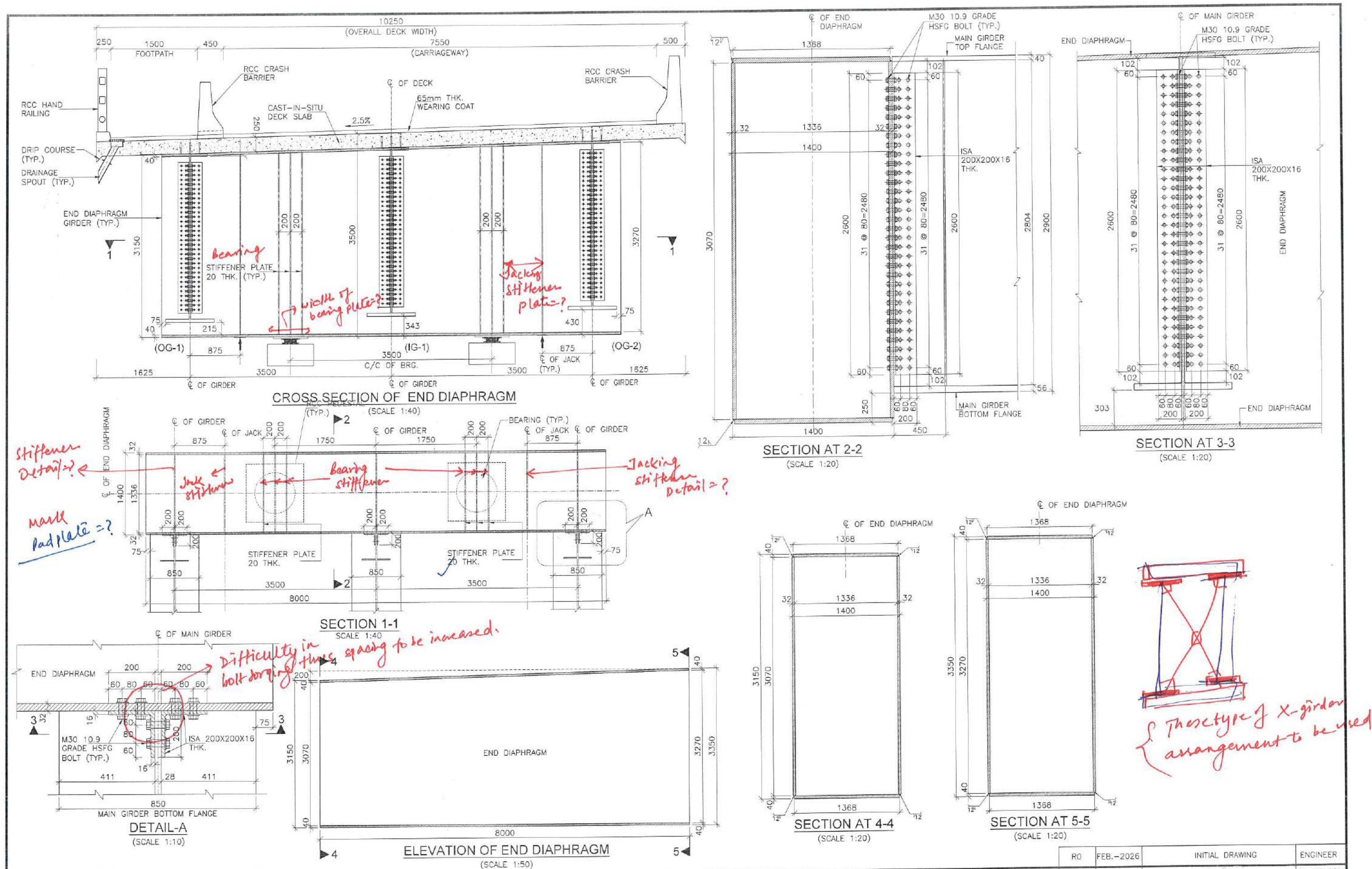
Prepared by: ARJUN
Designed by: ABINASH
Checked by: ASHOK KR.
Approved by: MALAY DAS GUPTA

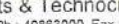
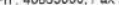
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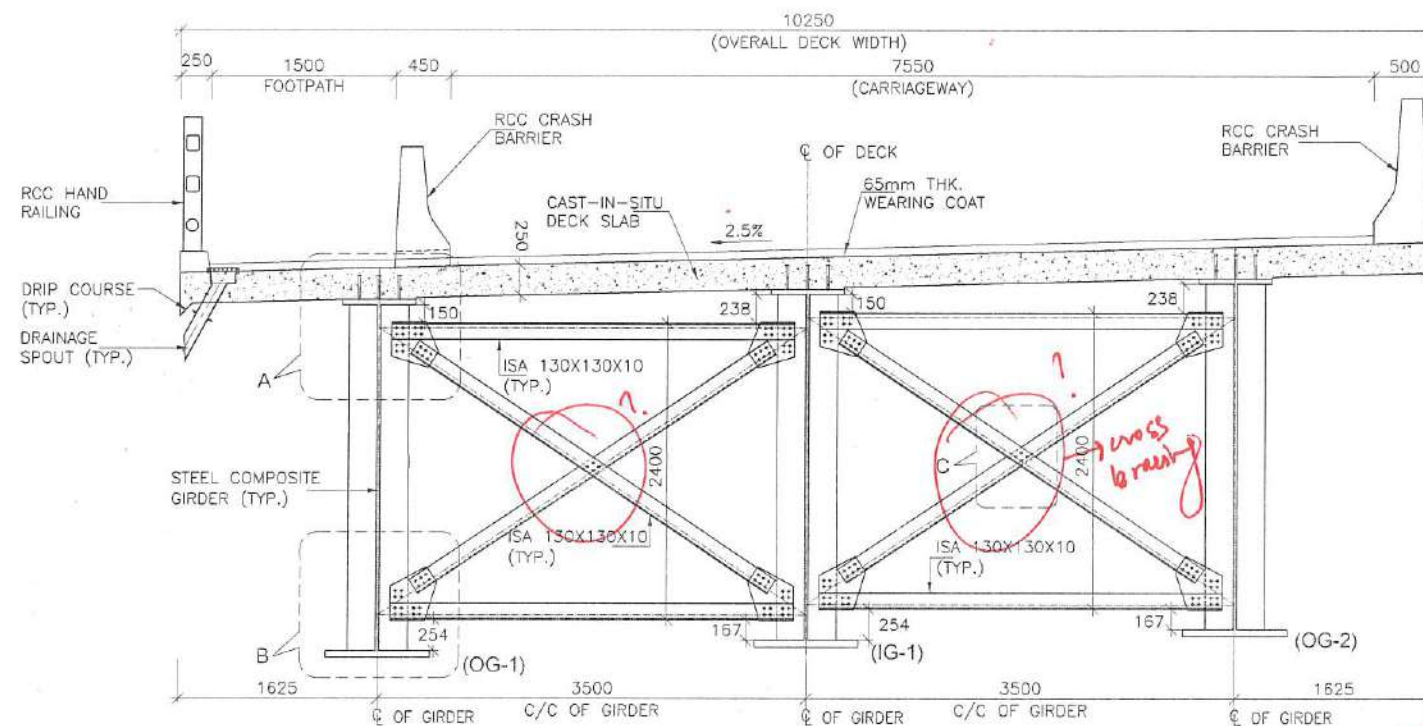
Revisions

Rev. No.	Date	Description	Check. d By
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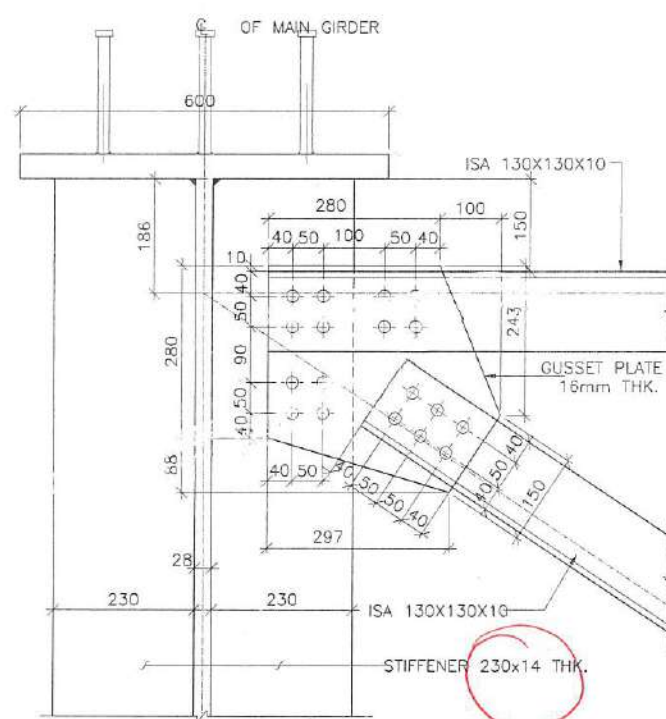
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NHAI/NH-27/GANDAK/SPAN-59.66/SUP-02



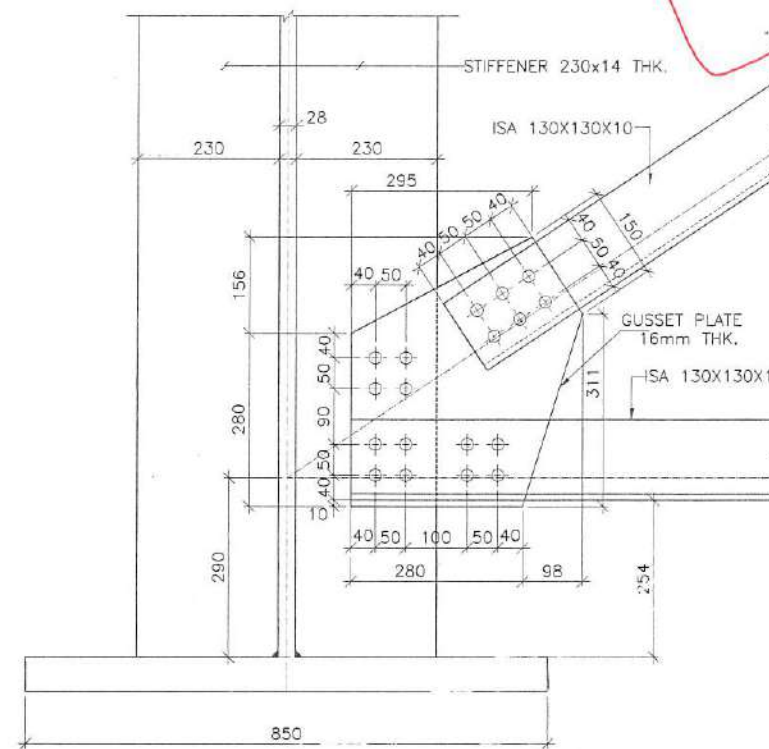
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							Revisions								
							Drawing No. NHAI/NH-27/GANDAK/SPAN-59.66/SUP-03								Rev.
															R0
															
Prepared by		Designed by	Checked by	Approved by											



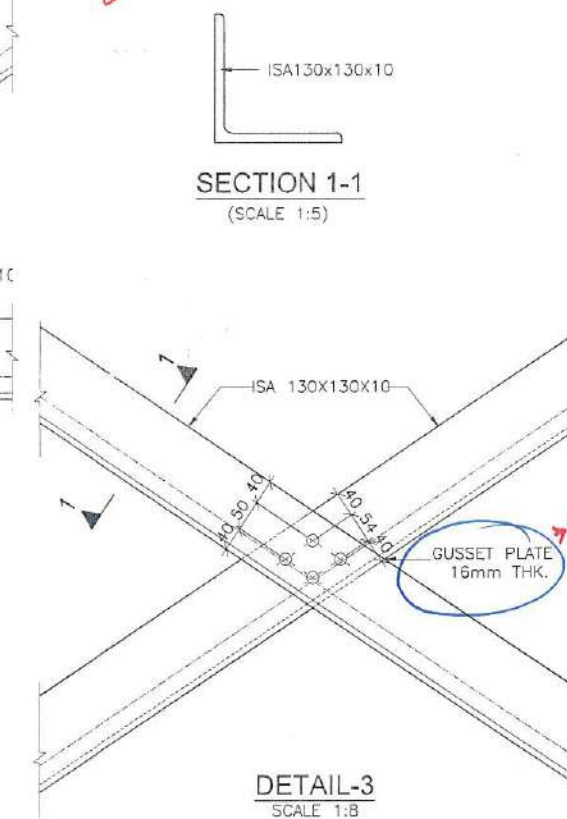
SECTION OF INTERMEDIATE CROSS GIRDER
(SCALE 1:40)



DETAIL-1
SCALE 1:8



DETAIL-2
SCALE 1:8



DETAIL-3
SCALE 1:8

NOTES:-

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- ALL STRUCTURAL STEEL GRADE SHALL BE OF E350 B0 AS PER IS 2062: 2011.
- ALL BRACING SHALL BE OF E250 AS PER IS 2062: 2011.
- ALL HOLES ARE 32 DIA FOR 30 DIA HSFG BOLT UNLESS OTHERWISE NOTED.
 - ALL BOLTS SHALL BE HSFG (PROPERTY CLASS 10.9 AS PER IS:1367 TABLE 7).
 - WORKMANSHIP SHALL CONFORM TO IS:816, IRC:24 & CLAUSE 1900 OF MORT&H SPECIFICATION.
 - PAINTING SHALL CONFORM TO SYSTEM (V), TABLE 1900-3 MORT&H SPECIFICATION, SECTION 1900.
 - SURFACE PREPARATION FOR CONNECTION USING HSFG BOLTS, SURFACE SHALL BE BLASTED WITH SHOT OR GRIT WITH ANY LOOSE RUST REMOVED.
 - THE SLIP FACTOR MUST BE ACHIEVED GREATER THAN OR EQUAL TO 0.4 BY THE FABRICATOR PRIOR OF FABRICATION. IF IT IS NOT ACHIEVED FABRICATOR SHALL CONSULT WITH DESIGNER BEFORE FABRICATION.
- CONTRACTOR SHALL PREPARE THE NECESSARY FABRICATION DRAWING BASED ON THIS DESIGN DRAWING.
- WHILE TRANSPORTING PROPER CARE SHOULD BE TAKEN TO SEE THAT THE SHEAR CONNECTORS ARE NOT DAMAGED.
- THE BRIDGE HAS BEEN DESIGNED FOR ONE LANE OF CLASS 70R WHEELED AND TWO LANES OF CLASS A VEHICLE & SV LOADING WHICHEVER GOVERNS AS PER TABLE 8A OF IRC:6-2017.
- STRIP SEAL TYPE EXPANSION JOINTS & POT PTFE BEARING SHALL BE PROVIDED AS PER DESIGN.
- IF REQUIRED THE LOCATION OF STUD MAY BE SHIFTED SLIGHTLY TO ACCOMMODATE THE BOLTS.
- ALL GUSSET PLATES ARE 16 mm THK. UNLESS OTHERWISE SPECIFIED.
- WELDING SHOULD BE DONE IN ACCORDANCE WITH IS:816 AND IS:9595 AND WELDING CONSUMABLES SHALL CONFORM TO IS:814.
- TOLERANCE FOR FABRICATION OF STEEL WORK SHALL BE AS PER IS:7215-1974.
- ALL STEEL MEMBERS ARE TO BE PROVIDED WITH ANTI-CORROSIVE PAINT AS PER SPECIFICATION.
- FABRICATION AND ERECTION OF STRUCTURAL STEEL WORKS SHALL CONFORM TO IRC: 24 (SECTION - V) IS: 7205 - 1074 AND IS: 7215 - 1074.
- AUTOMATED SUBMERGED ARC WELDING SHOULD BE EMPLOYED FOR FILLET WELD IN FLANGE AND WEBS. OTHER WELD SHOULD ALSO BE DONE BY SUBMERGED ARC WELDING TO THE MAXIMUM EXTENT POSSIBLE.
- FEASIBILITY OF THIS STRUCTURE SHALL BE CHECKED AT SITE IN EVERY RESPECT BY THE ENGINEER IN CHARGE BEFORE FABRICATION/ERECTION.
- ALL WELDS SHALL BE 8mm THK. FILLET WELDS, UNLESS OTHERWISE NOTED.
- ALL WELDS TO BE MADE BY USING APPROVED PROCEDURE AND BY QUALIFIED WELDERS ONLY AS PER IS 9595.

What is bolt dia used here = ?
for bracing in design it shows 200 dia



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WR 16 Balance Work Phase-III in Bihar

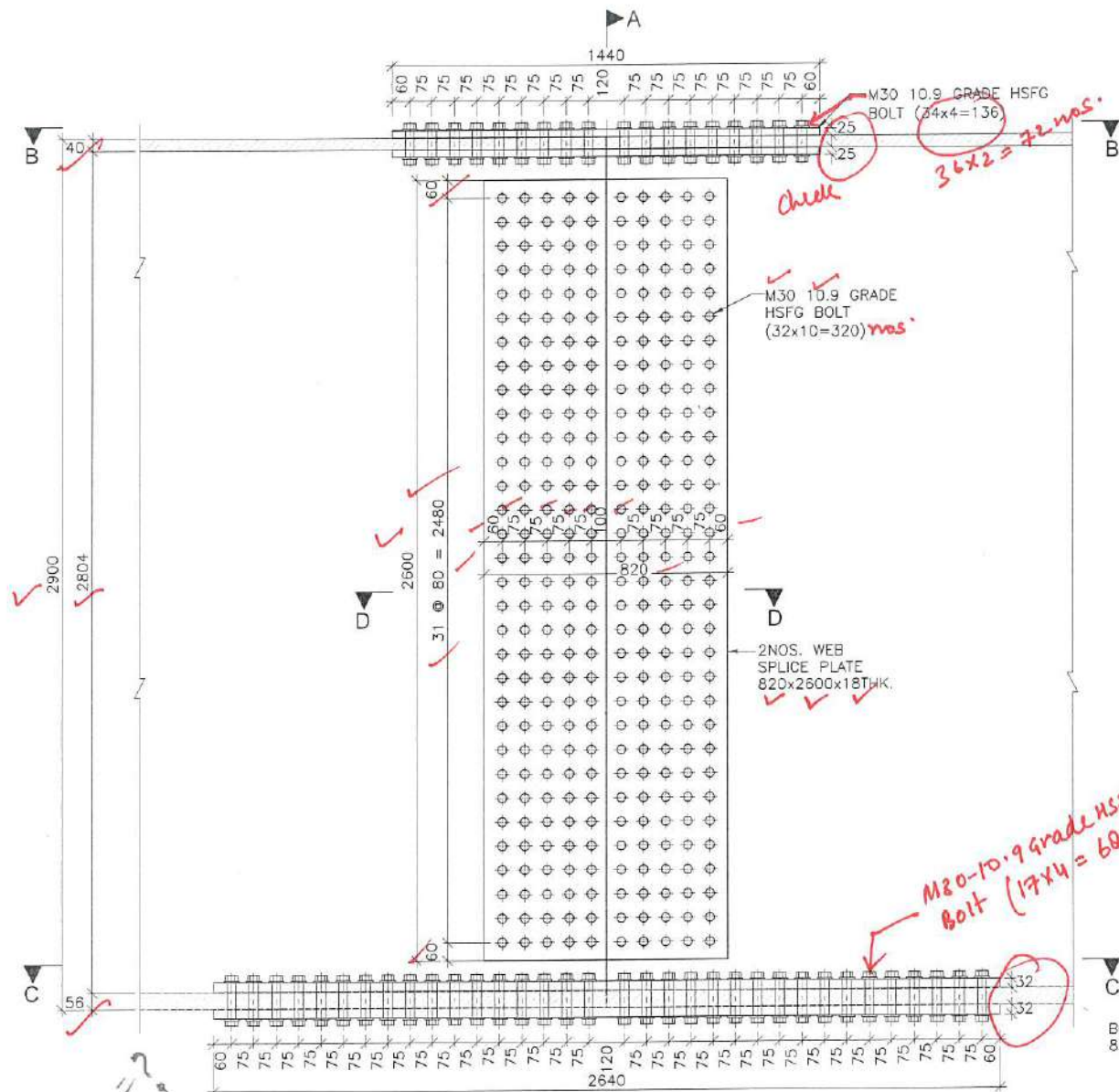
Drawing Title:
DIMENSIONAL DETAILS OF
INTERMEDIATE CROSS GIRDER

Design Consultant
ict

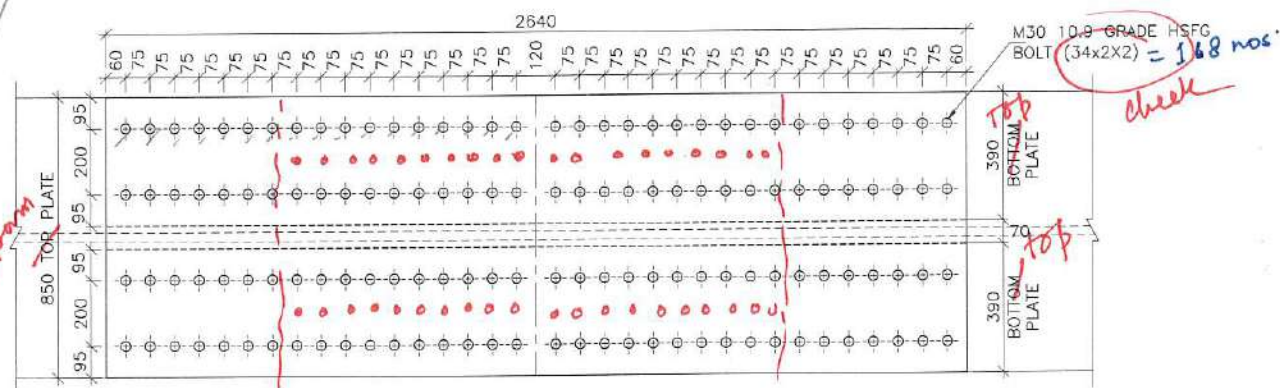
Intercontinental Consultants & Technocrats Pvt Ltd
A-8, Green Park, New Delhi - 110015, Ph : 40853000, Fax : 26855252

Prepared by ARJUN	Designed by ABINASH	Checked by ASHOK KR.	Approved by MALAY DAS GUPTA
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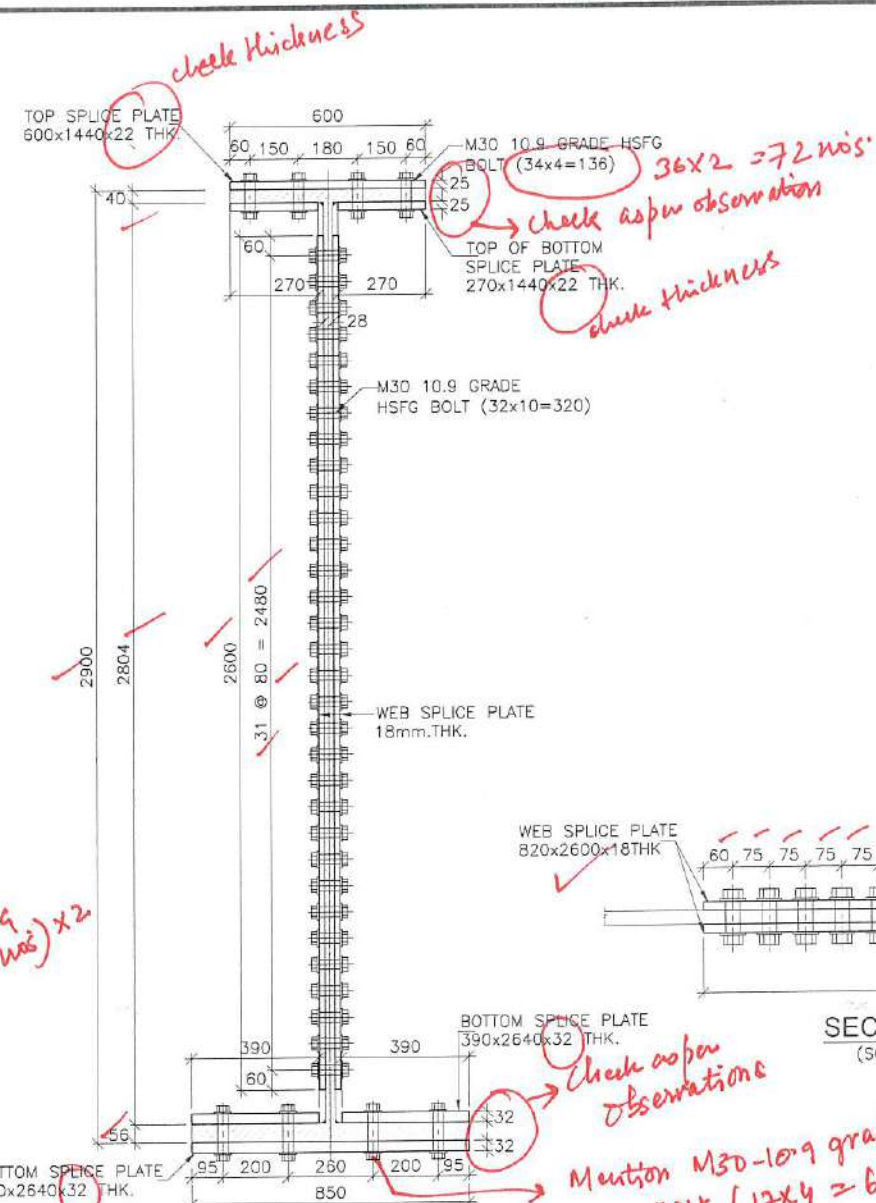
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Rev. No.	Date	Description	Checked By
Revisions			
Drawing No.			Rev.
NHAI/NH-27/GANDAK/SPAN-59.66/SUP-04			RO



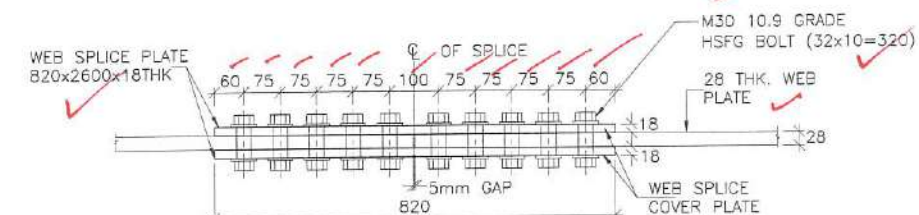
DETAIL OF SPLICE AT PLATE GIRDER
(SCALE 1:15)



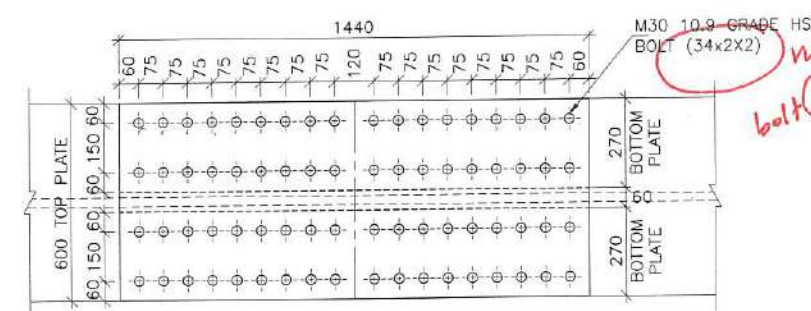
VIEW C-C
(SCALE 1:15)



SECTION A-A
(SCALE 1:15)



SECTION D-D
(SCALE 1:10)



VIEW B-B
(SCALE 1:15)



NATIONAL HIGHWAYS
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in km. 422 of NH-28 (New NH-27) Contract Package
WB-10 Balance Work Phase-III in Bihar

Drawing Title:

TYPICAL DETAILS OF
SPLICE JOINT

Design Consultant:



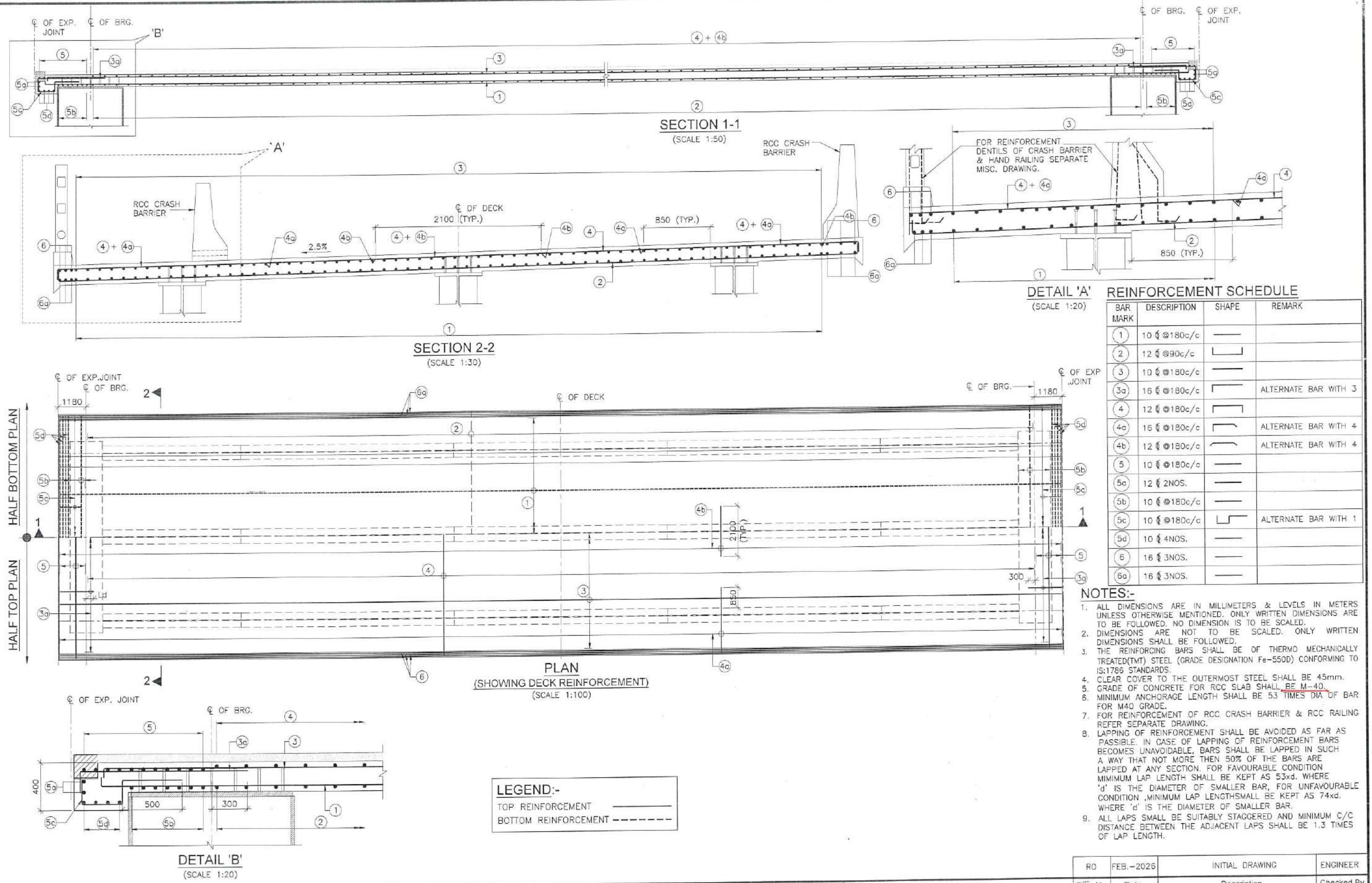
Intercontinental Consultants & Technocrats Pvt Ltd
A-8, Green Park, New Delhi - 110016, Ph: 40863000, Fax: 26555252

Prepared by: ARJUN
Designed by: ABINASH
Checked by: ASHOK KR.
Approved by: MALAY DAS GUPTA

Rev. No.	Date	Initial Drawing	Engineer
		Description	Checked By

Revisions

Drawing No.	Rev.
NHAI/NH-27/GANDAK/SPAN-59.66/SUP-05	R0



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						Revisions										
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																R0
						Prepared by	Designed by	Checked by	Approved by							
						ARJUN	ABINASH	ASHOK KR.	MALAY DAS GUPTA							