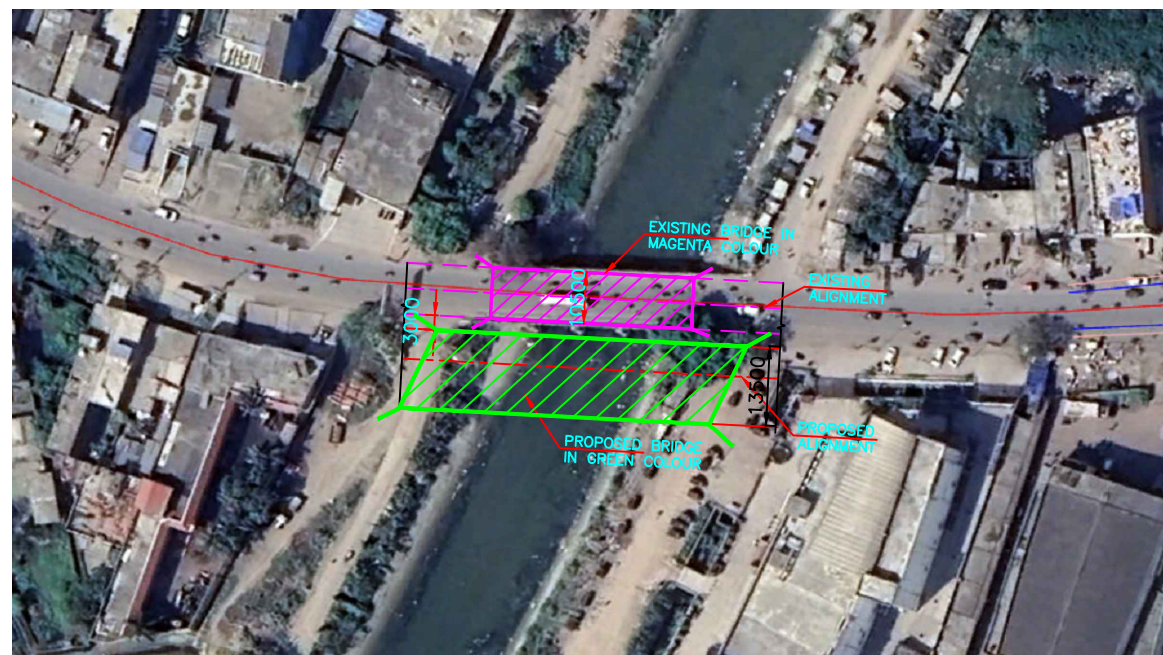




MINISTRY OF TRANSPORT & HIGHWAYS

Proposal for minor Bridge at km 20+290(New Two Lane on RHS
& Reconstruction of existing Bridge Padrauna, Kushinagar, (Uttar Pradesh)



DRAWING VOLUME

Client:



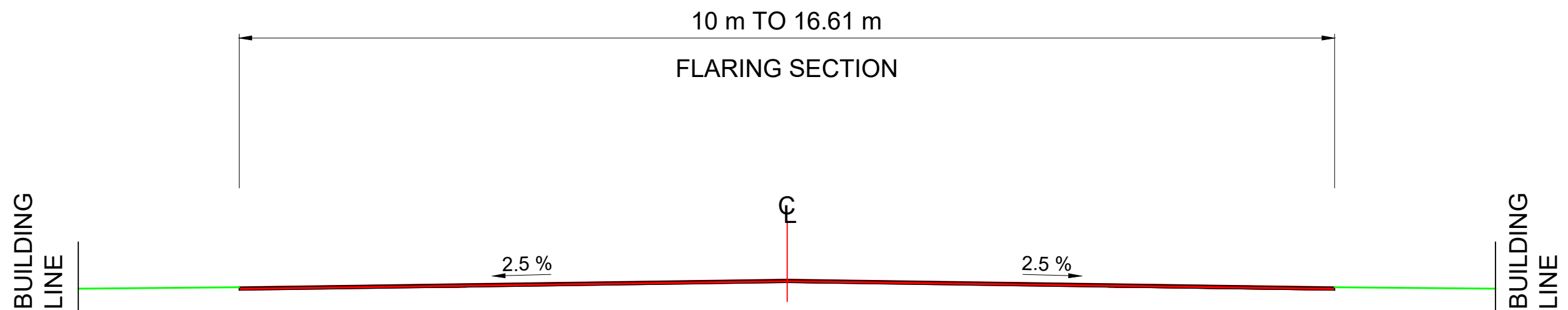
MINISTRY OF ROAD TRANSPORT & HIGHWAY

Consultant



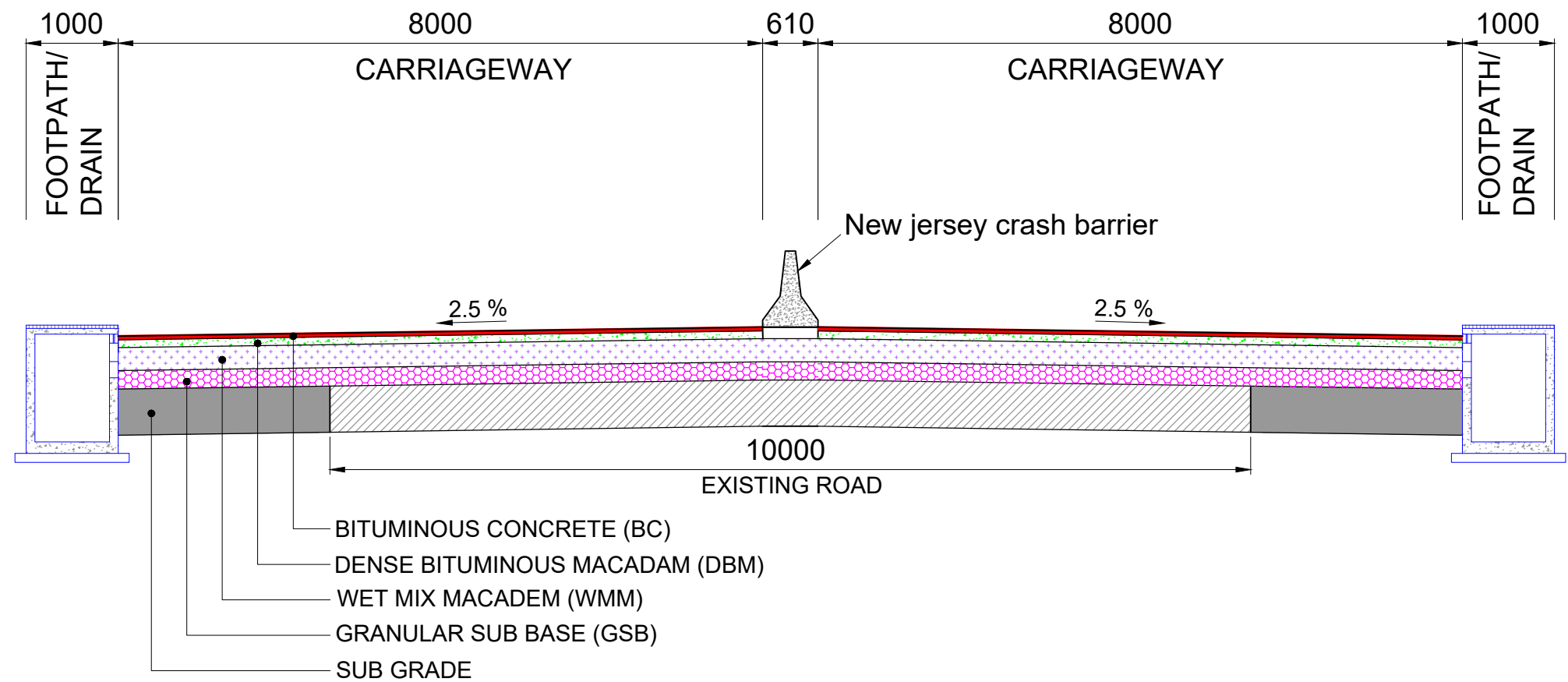
M/S STERLING INDO TECH CONSULTANTS PVT LTD.
IN ASSOCIATION WITH
M/S SADHAKSHA ENGINEERING PRIVATE LIMITED.

TCS



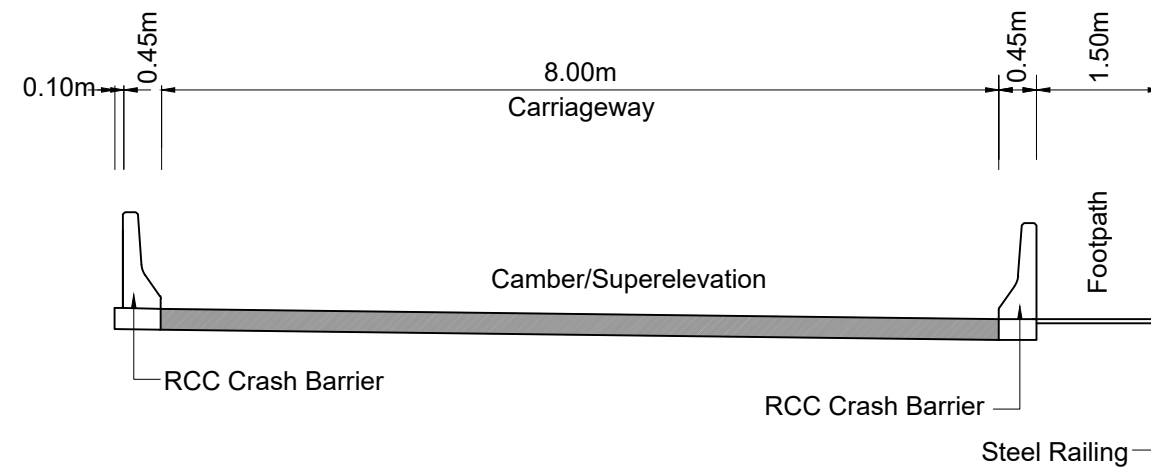
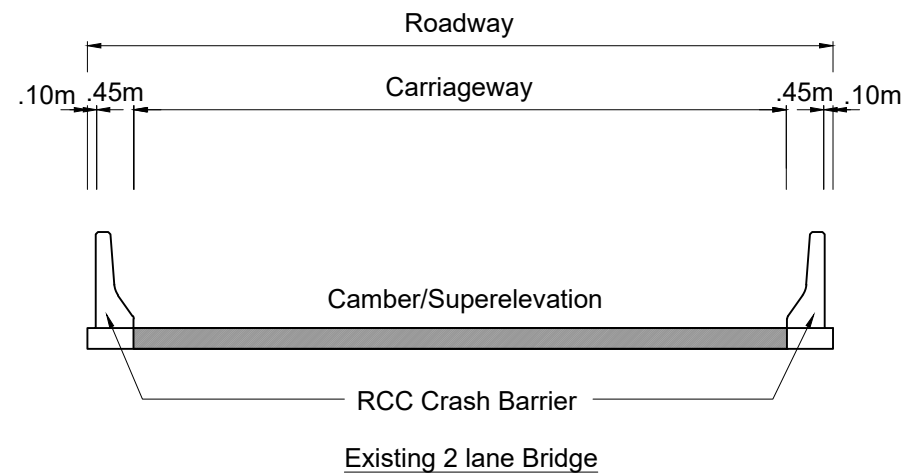
TCS-1 (FLARING SECTION)
CH.-20+170 TO 20+205
CH.-20+405 TO 20+440

PROJECT- Proposal for minor Bridge at km 20+290(New Two Lane on RHS & Reconstruction of existing Bridge)	 MINISTRY OF ROAD TRANSPORT & HIGHWAY	 NH-PUBLIC WORK DEPARTMENT, GORAKHPUR	DRAWING TITLE- TCS-1			
			DRAWING NO.- MNB/SUP/TCS/01			
			SCALE- N.T.S.			
			DRN.	DGN.	APPD.	SHEET.
						SHEET.

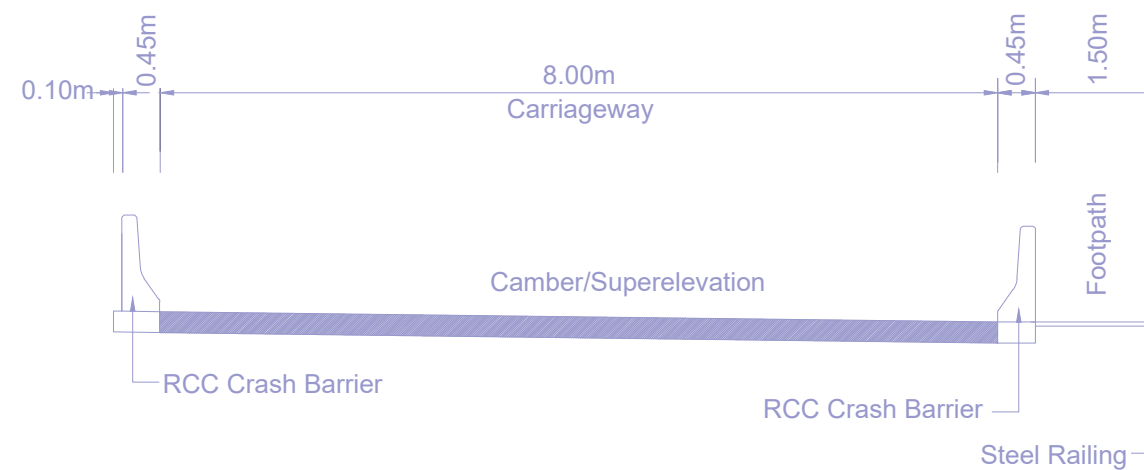
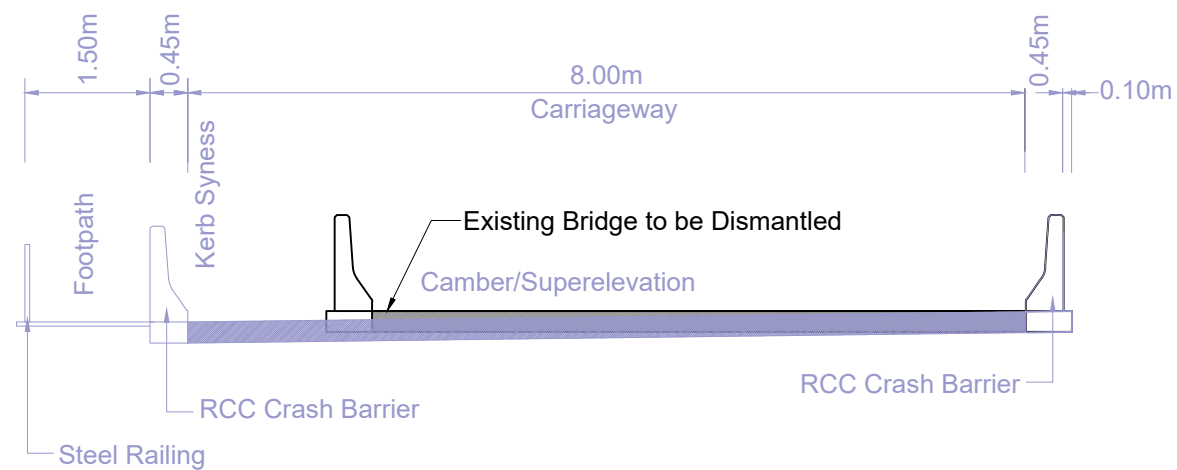


**TCS-2 (FOR LANE WITH PAVED
SHOULDER (APPROACH TO BRIDGE))**
CH.-20+205 TO 20+270
CH.-20+315 TO 20+405

PROJECT- Proposal for minor Bridge at km 20+290(New Two Lane on RHS & Reconstruction of existing Bridge)	 MINISTRY OF ROAD TRANSPORT & HIGHWAY	 NH-PUBLIC WORK DEPARTMENT, GORAKHPUR	DRAWING TITLE- TCS-2 DRAWING NO.- MNB/SUP/TCS/02 SCALE- N.T.S. <table border="1"> <tr> <td>DRN.</td><td>DGN.</td><td>APPD.</td><td>SHEET.</td></tr> <tr> <td></td><td></td><td></td><td>SHEET.</td></tr> </table>	DRN.	DGN.	APPD.	SHEET.				SHEET.
DRN.	DGN.	APPD.	SHEET.								
			SHEET.								



TCS -3 (CH. 20+270 TO 20+315)
Step I : New Construction of Bridge on RHS



Step II :- Traffic diversion on newly constructed bridge on RHS, then reconstruction of existing bridge

PROJECT- Proposal for minor Bridge at km 20+290(New Two Lane on RHS & Reconstruction of existing Bridge)	 MINISTRY OF ROAD TRANSPORT & HIGHWAY	 NH-PUBLIC WORK DEPARTMENT, GORAKHPUR	DRAWING TITLE- TCS-3 DRAWING NO.- MNB/SUP/TCS/03 SCALE- N.T.S. <table border="1"> <tr> <td>DRN.</td><td>DGN.</td><td>APPD.</td><td>SHEET.</td></tr> <tr> <td></td><td></td><td></td><td>SHEET.</td></tr> </table>	DRN.	DGN.	APPD.	SHEET.				SHEET.
DRN.	DGN.	APPD.	SHEET.								
			SHEET.								

PLAN & PROFILE

GENERAL ARRANGEMENT DRAWING

NEW TWO LANE ON RHS & RECONSTRUCTION OF EXISTING BRIDGE AT KM-20+290

(REF. :- IRC:SP:84-2019)

Fig. 7.2A, Page No. 67

Option - I

NOTES:-

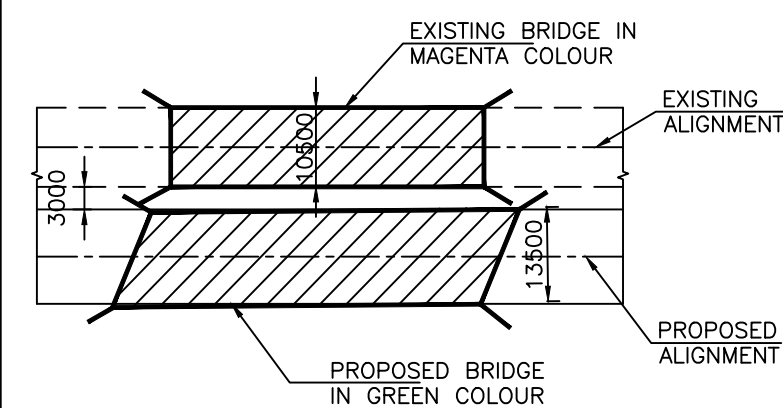
- ALL DIMENSIONS ARE IN MILLIMETERS, LEVELS ARE IN METERS UNLESS OTHERWISE MENTIONED.
- NO DIMENSION SHALL BE MEASURED FROM THE DRAWINGS. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- THE DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT HIGHWAY PLAN AND PROFILE DRAWINGS. FRL, BED LEVEL, CAMBER/SUPERELEVATION AND LAYOUT SHALL ALSO BE VERIFIED AT SITE BEFORE EXECUTION. DISCREPANCIES SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER FOR REVISION IN DRAWINGS, IF ANY.
- CHAINAGE OF THE STRUCTURE IS AT THE CENTER LINE OF THE PROPOSED STRUCTURE.
- THE REINFORCEMENT SHALL BE HYSD BARS OF GRADE DESIGNATION Fe 500D CONFORMING TO IS 1786-2008.
- CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC CUBE STRENGTH FOR DIFFERENT ELEMENTS AS FOLLOWS:

a. RCC DECK SLAB	M40
b. PSC GIRDER	M60
c. RCC ABUT. & ABUT. CAP	M35
d. RCC CRASH BARRIER	M40
e. RCC APPROACH SLAB	M30
f. PCC LEVELING COURSE	M15
- CLEAR COVER TO OUTER STEEL SHALL BE AS FOLLOWS:-

a. SUPERSTRUCTURE	40MM
b. RCC ABUT. STEM EARTH SIDE	75MM
c. RCC ABUT. OUTER SIDE	40MM
d. RCC ABUT. CAP	40MM
e. CRASH BARRIER	40MM
- 65MM THICK WEARING COURSE COMPRISING OF BITUMINOUS CONCRETE 40MM THICK OVERLAID WITH 25MM THICK BITUMEN MASTIC ASPHALTIC SHALL BE PROVIDED AS PER SECTION 500 OF MORTH SPECIFICATION.
- DRAINAGE SPOUT 100MM DIA SPACED 5000MM C/C SHALL BE PROVIDED IN SUPERSTRUCTURE.
- CONDITION OF EXPOSURE IS SEVERE.
- THIS STRUCTURE LIES IN SEISMIC ZONE IV.
- THE STRUCTURE HAS BEEN DESIGNED FOR LIVE LOAD COMBINATIONS CONFORMING TO IRC: 6-2017 INCLUDING SPECIAL VEHICLE (SV) LOADING.
- 600MM THICK FILTER MEDIA SHALL BE PROVIDED BEHIND SOLID ABUTMENT WALL & RETURN WALLS.
- ALL SOLID WALLS RETAINING THE EARTH SHALL BE PROVIDED WITH WEEP HOLES (100MM DIA AND SLOPE 1V:20H) STARTING 150MM ABOVE THE GROUND LEVEL AND SPACED 1000MM C/C BOTH HORIZONTALLY AND VERTICALLY IN STAGGERED MANNER.

NOTES:-

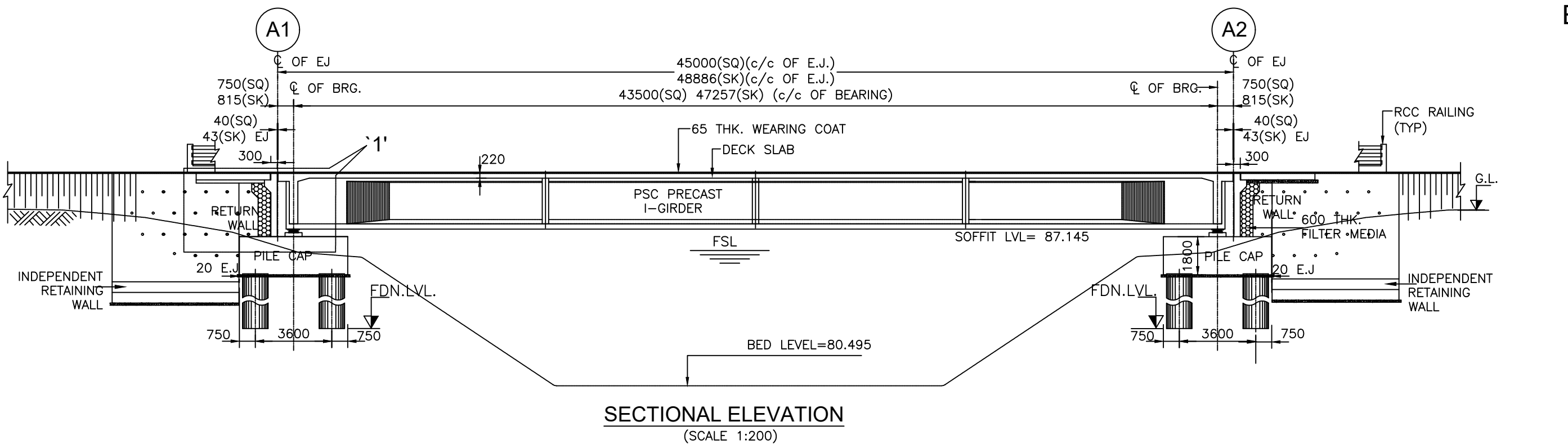
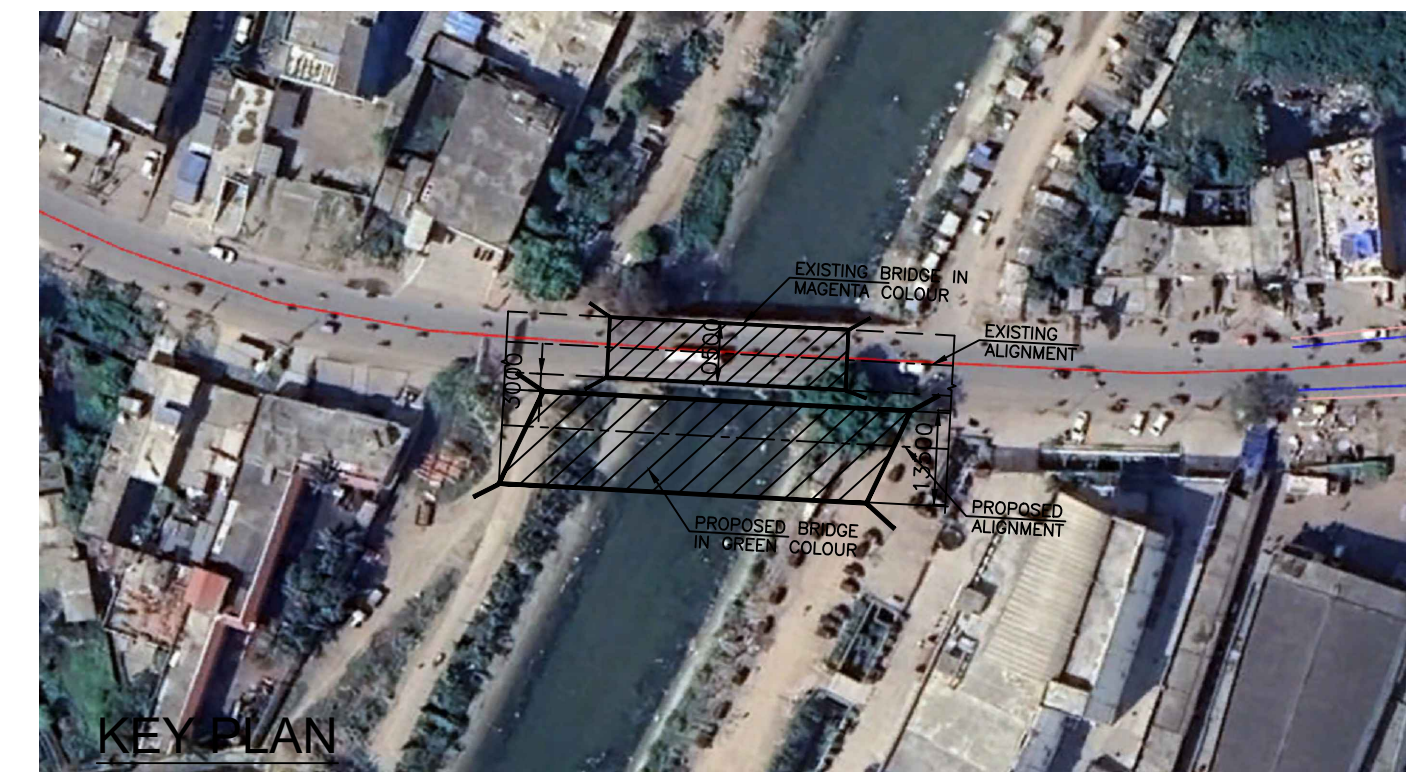
- STAGE I :- CONSTRUCTION OF 2-LANE NEW BRIDGE AS PER IRC:SP:84-2019 (TOTAL DECK WIDTH 13.500m).
- STAGE II :- DISMANTLING OF EXISTING BRIDGE AFTER COMPLETION OF 2-LANE NEW BRIDGE ON RHS.
- STAGE III :- CONSTRUCTION OF 2-LANE NEW BRIDGE IN PLACE OF EXISTING BRIDGE AS PER IRC:SP:84-2019 (TOTAL DECK WIDTH 13.500m).



LEGEND:-

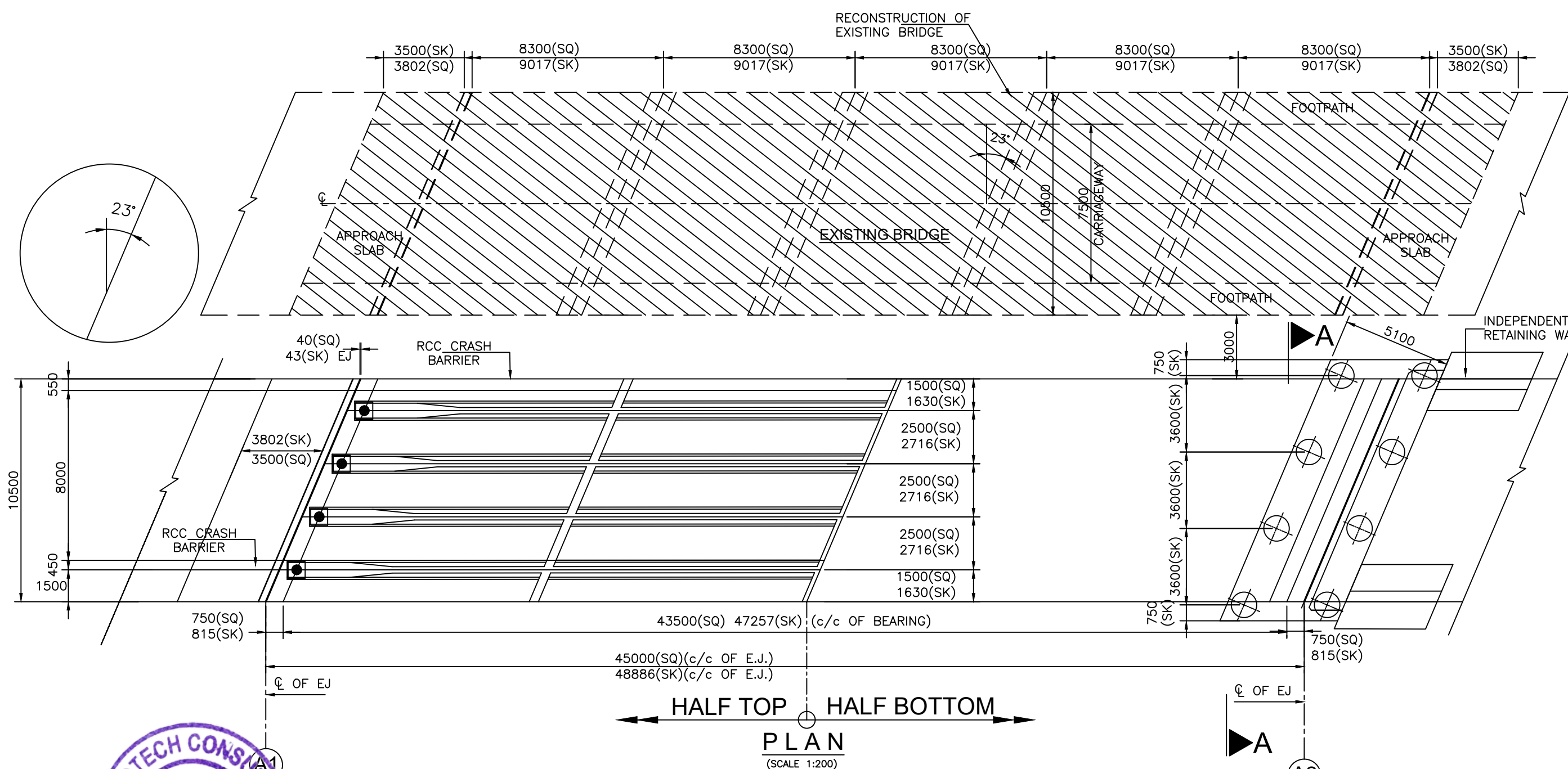
FRL	-	FINISHED ROAD LEVEL
GL.	-	GROUND LEVEL
LVL.	-	LEVEL
FDN	-	FOUNDATION
EJ	-	EXPANSION JOINT
LBL	-	LOWEST BED LEVEL
HFL	-	HIGHEST FLOOD LEVEL
EG	-	EXPANSION GAP
BRG	-	BEARING

GANDAK CANAL CHAINAGE - 85.767 Km.

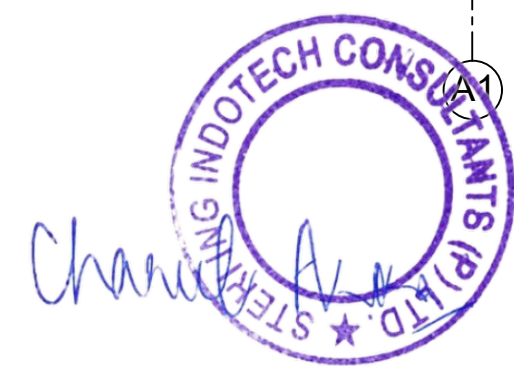


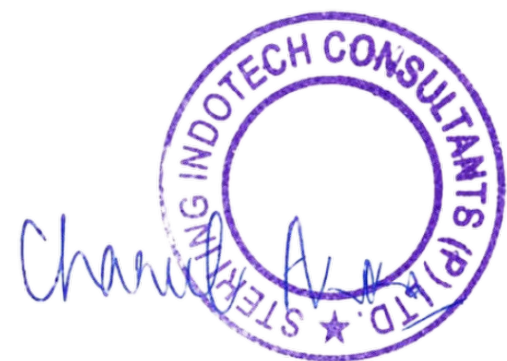
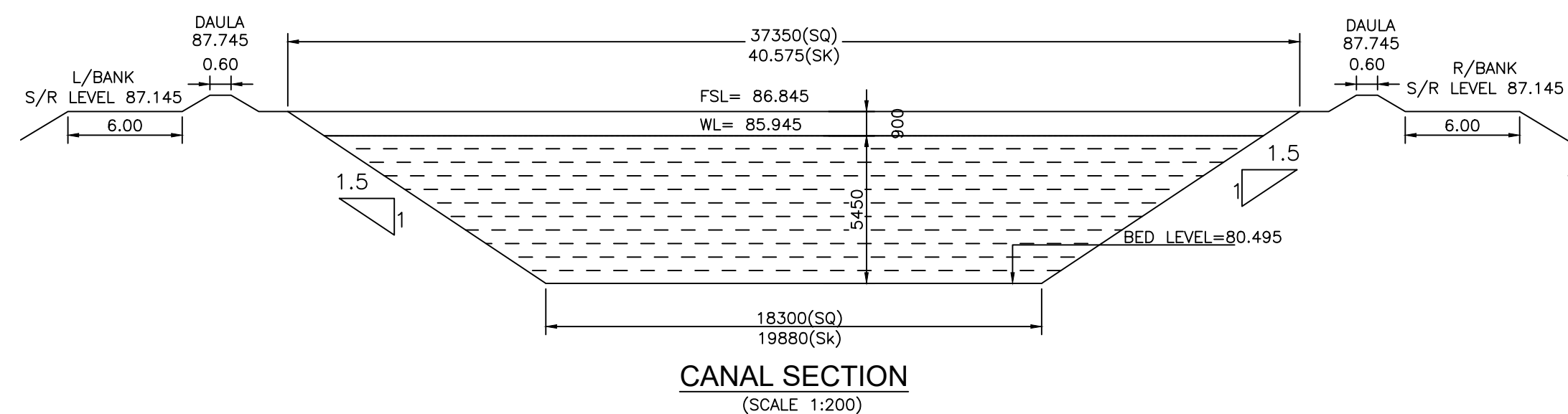
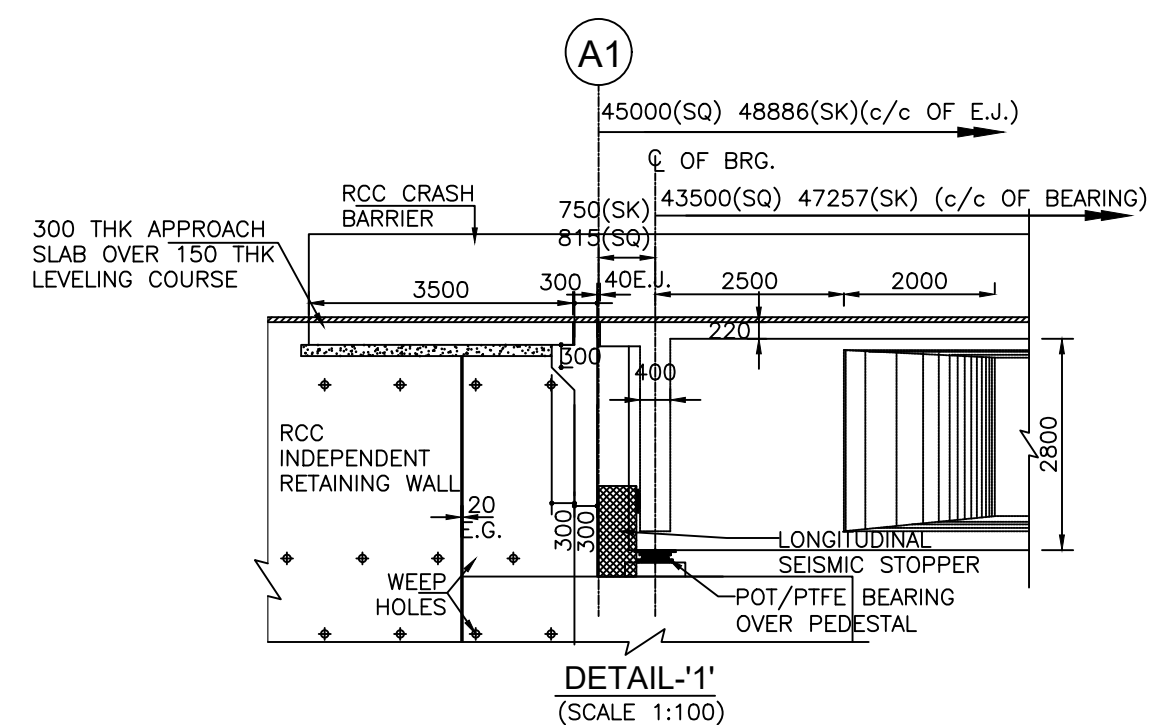
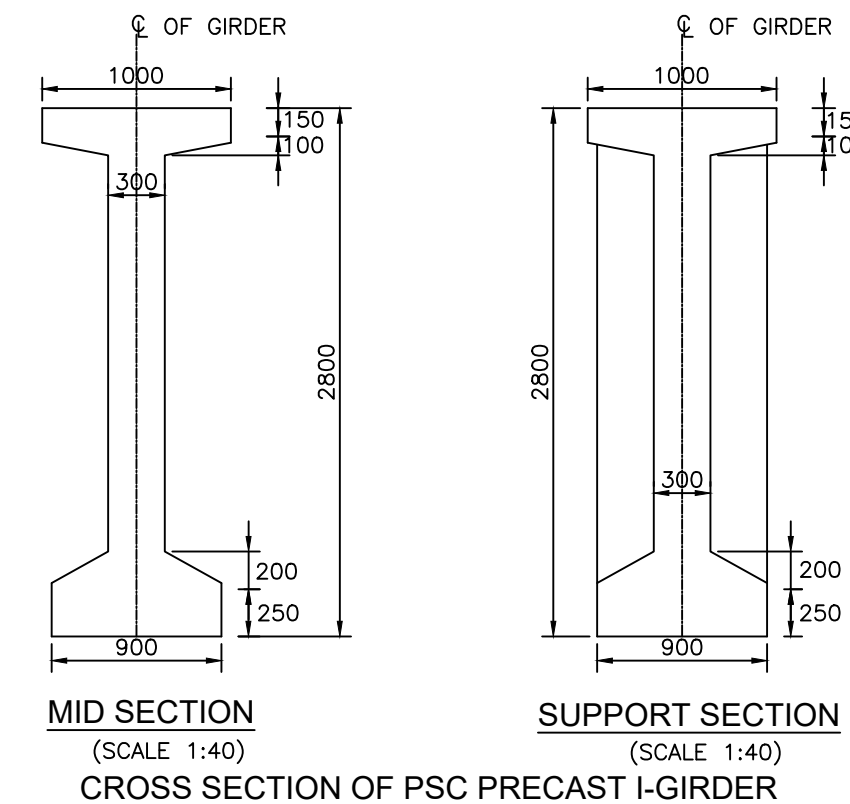
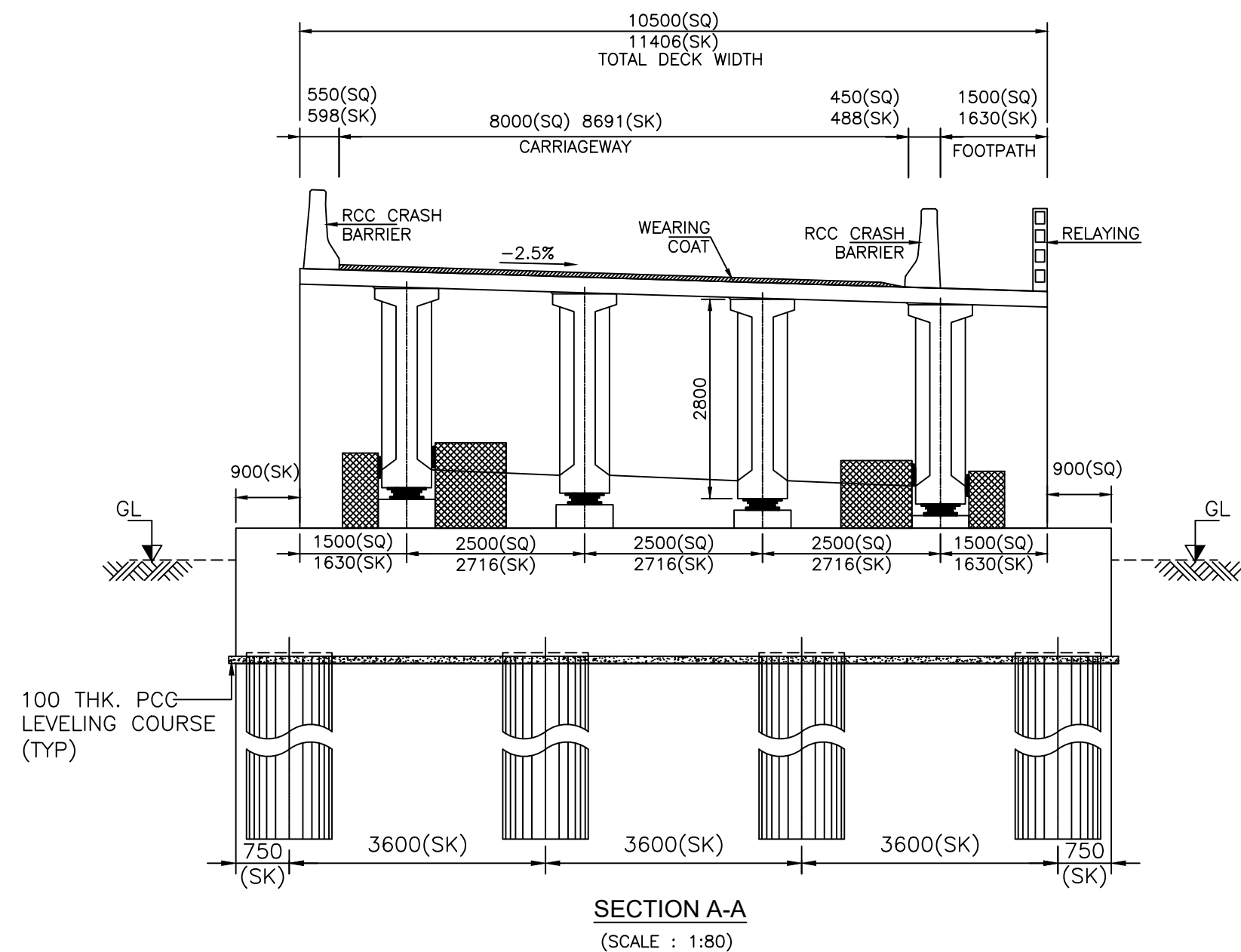
SECTIONAL ELEVATION
(SCALE 1:200)

FRL	90.273	90.273	90.273
GROUND LVL.	87.644		87.644
CHAINAGE	20+263.5	20+286	20+308.5



HALF TOP HALF BOTTOM
PLAN
(SCALE 1:200)





PROJECT:

Proposal for minor Bridge at km 20+290
(New Two Lane on RHS & Reconstruction
of existing Bridge)



MINISTRY OF ROAD TRANSPORT & HIGHWAY



NH-PUBLIC WORKS DEPARTMENT,
GORAKHPUR

DESIGN CONSULTANT:



M/S STERLING INDO TECH CONSULTANTS PVT LTD.

Reg Off: 601, Sunny Mart, New Aatish Market,
Mansarovar, Jaipur-302020.

IN ASSOCIATION WITH

M/S SADHAKSHA ENGINEERING PRIVATE LIMITED.

C-179/79 Betiahata, Gorakhpur (U.P.):- 273001



DRAWING TITLE:-

GENERAL ARRANGEMENT DRAWING OF MNB ON CANAL AT PADRAUNA AT KM-20+290
(NEW TWO LANE ON RHS & RECONSTRUCTION OF EXISTING BRIDGE)

DRAWING NO.- SA/MORTH/DPR/PB/MNB/GAD/01

N.T.S.

DRN.	DGN.	APPD.	SHEET.
RAJEEV	YOUNIS	ANIL	02 OF 02