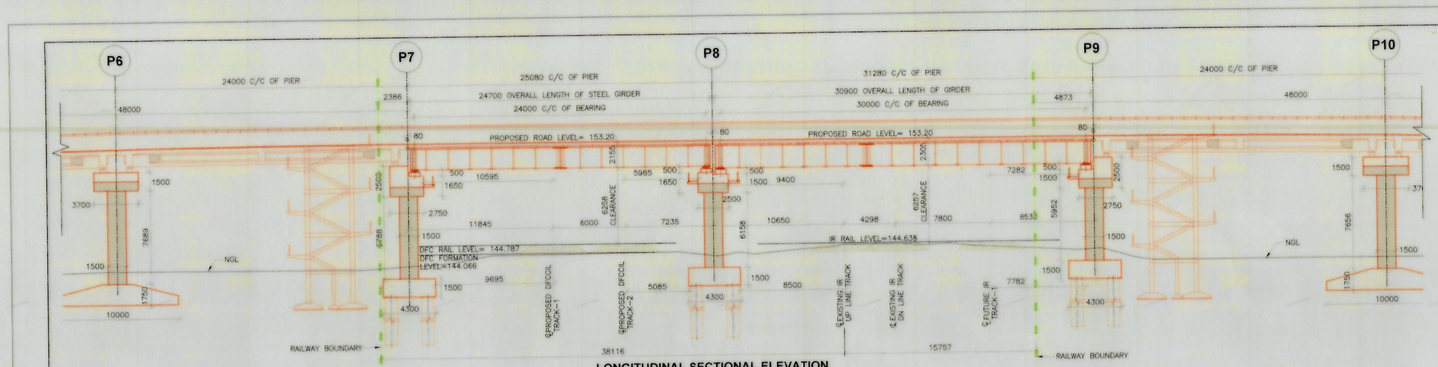
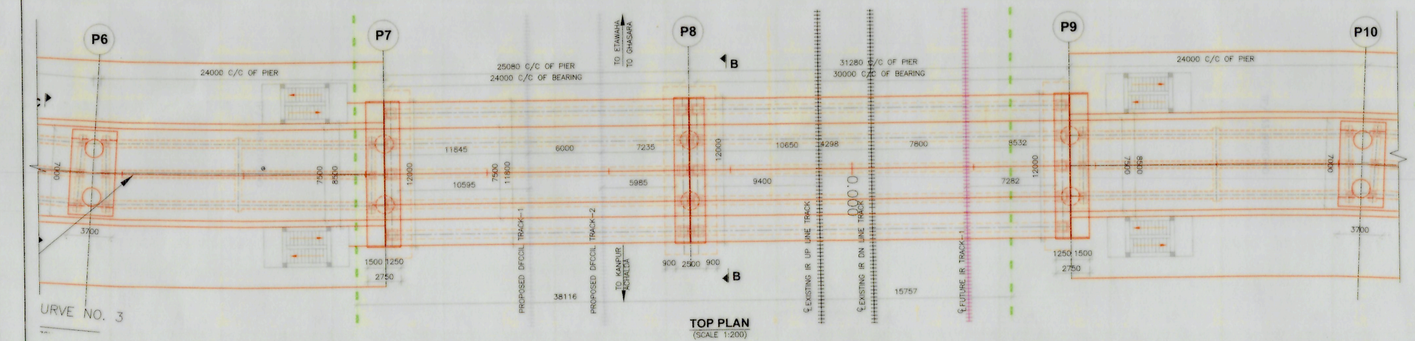
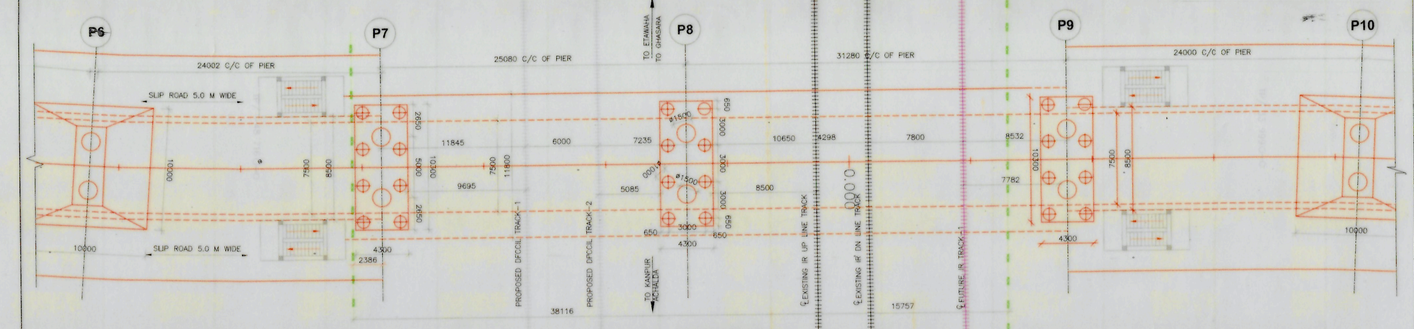


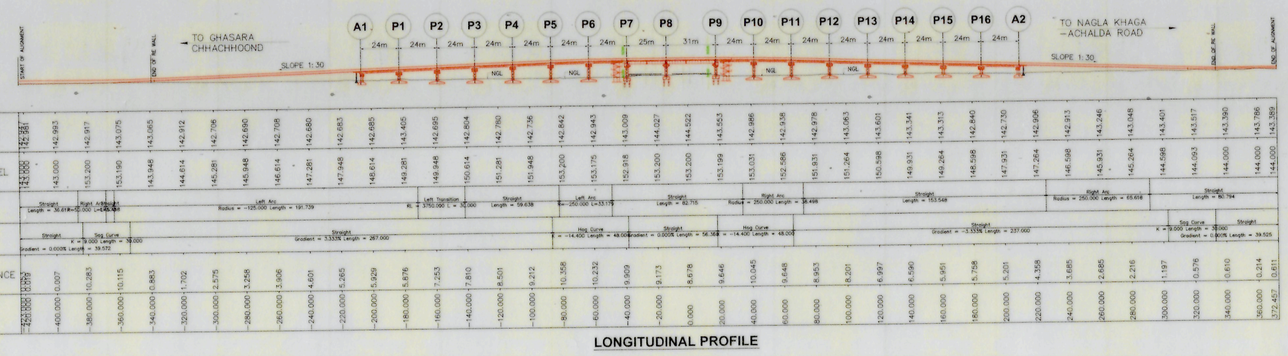
LONGITUDINAL SECTIONAL ELEVATION
(SCALE 1:200)



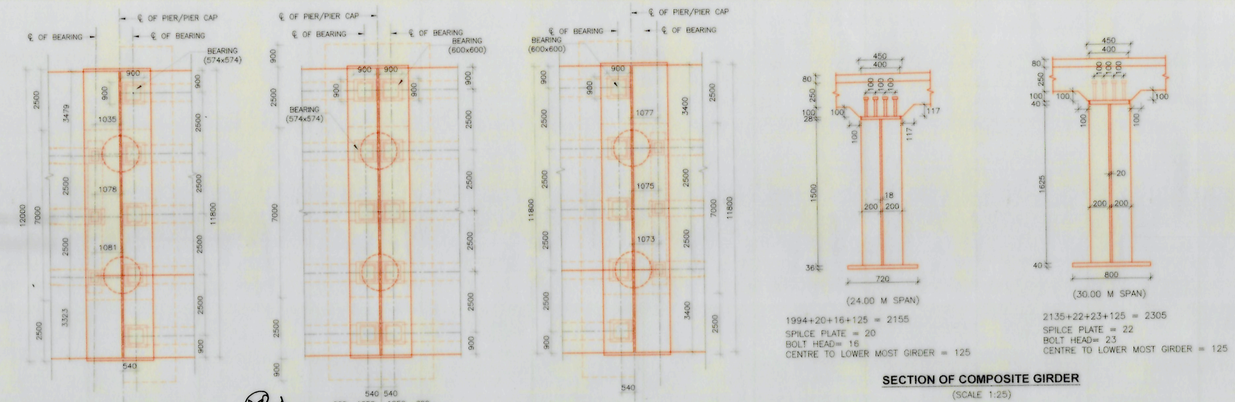
TOP PLAN
(SCALE 1:200)



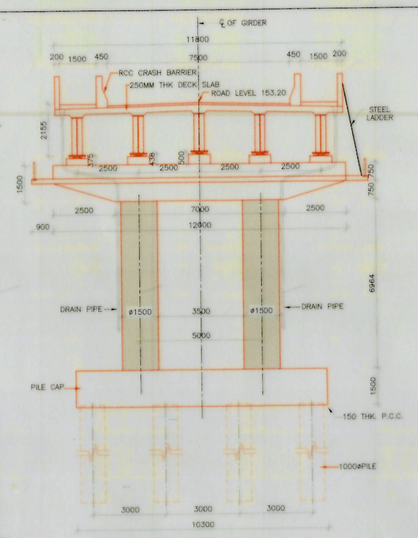
BOTTOM PLAN
(SCALE 1:200)



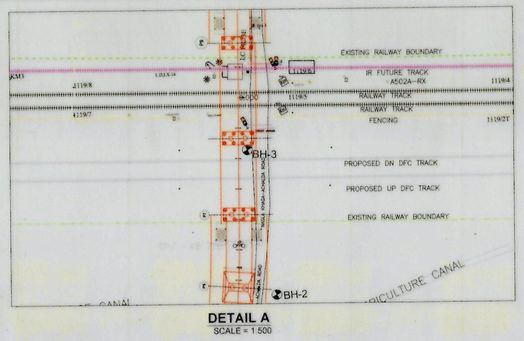
LONGITUDINAL PROFILE



SECTION OF COMPOSITE GIRDER
(SCALE 1:25)



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



DETAIL A
SCALE 1:500

COORDINATE OF BOREHOLE		
BH. NO.	Y	X
BH-03	339452.110	2955362.680
BH-04	339473.210	2955397.580

RECOMMENDED SAFE LOAD CARRYING CAPACITY			
BH. NO.	SIZE OF PILE LENGTH (M)	DIAMETER (M)	RECOMMENDED SAFE LOAD (TONNES)
14/3	15.00	1.00	60.00
14/3	25.00	1.00	148.00
14/3	30.00	1.00	197.00
14/4	15.00	1.00	108.00
14/4	25.00	1.00	157.00
14/4	30.00	1.00	209.00

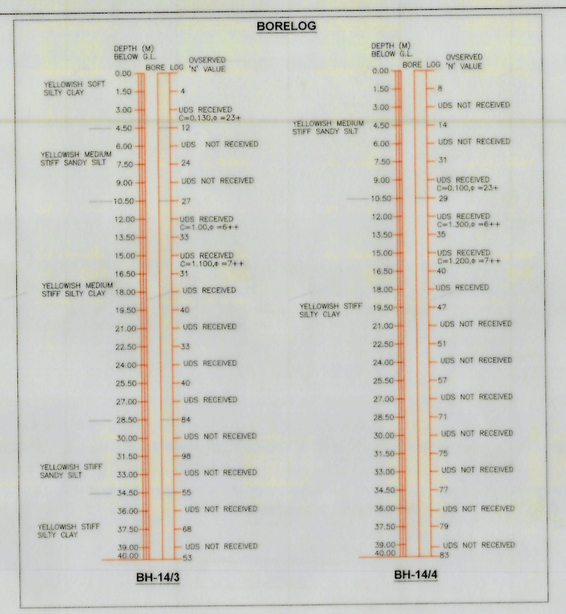
SAFE BEARING CAPACITY				
BH. NO.	SIZE OF FOUNDATION LENGTH (M)	WIDTH (M)	DEPTH (M)	RECOMMENDED SBC (t/M²)
14/3	10.00	10.00	3.00	12.00
14/4	10.00	10.00	3.00	13.00

KEY PLAN
SCALE = 1:2000

LEGEND FOR KEY PLAN

- EXISTING RAILWAY LINE
- PROPOSED DFCC RAILWAY LINE
- FUTURE IR RAILWAY LINE
- EXISTING RAILWAY BOUNDARY
- BOUNDARY WALL
- FENCING
- AGRICULTURE CANAL
- PROPOSED STRUCTURE
- EXISTING STRUCTURE

BOREHOLE



NOTES & SPECIFICATIONS :-

1. ALL DIMENSIONS ARE IN MILI METERS AND LEVEL IN METERS OTHERWISE WRITTEN.
2. NO DIMENSIONS SHALL BE SCALED FROM THIS DRAWING ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
3. ACTUAL LOCATION OF ROB SHALL BE DECIDED BY ENGINEER IN CHARGE OF RAILWAY IN CONSULTATION WITH ROAD AUTHORITY AT THE TIME OF ITS CONSTRUCTION.
4. THE STRUCTURAL DETAILS AND DIMENSIONS SHOWN IN THIS DRAWINGS ARE TENTATIVE AND ARE SUBJECT TO FINAL DESIGN AND DRAWING TO BE APPROVED BY THE RAILWAY.
5. CRS SANCTION WILL BE OBTAINED BEFORE LAUNCHING OF STEEL GIRDER IN RAILWAY SPAN.
6. TYPE / DEPTH OF FOUNDATION IS TENTATIVE AND MAY BE ALTERED BY ENGINEER-IN-CHARGE OF RAILWAY TO SUIT THE SOIL STRATA MET AT SITE.
7. PILES SHALL BE LOAD TESTED BEFORE CASTING OF MAIN PILE AS PER RELEVANT IRC/RAILWAY CODE.
8. BRIDGE WHEN CONSTRUCTED BE CLEAR OF MOVING DIMENSIONS MINIMUM VERTICAL CLEARANCE AND HORIZONTAL CLEARANCE AT RAIL LEVEL OF PIERS FROM THE NEAREST CENTRE LINE OF TRACK SHALL BE MINIMUM (AS PER RDSO LETTER NO.CBS/YAO DATED 15.04.2012)
9. GUARD RAIL SHALL BE PROVIDED IN THE TRACK ADJACENT TO PIERS AND ABUTMENTS AS PER STANDARD DRAWING.
10. WIDTH OF ROADWAY HAS BEEN PROVIDED AS PER REQUIREMENT OF SPONSORING AGENCY.
11. SINGLE SUMMIT CURVE SHALL BE PROVIDE AT THE APEX OF THE GRADIENT OF APPROACHES.
12. EACH 2 LANE UNIT OF ROB IS DESIGNED FOR 1-LANE OF IRC: 70R OR 2 LANE OF IRC CLASS-A LOADING, WHICHEVER GOVERNS.
13. CRASH BARRIERS SHALL BE PROVIDED AS PER LATEST DESIGN BY IRC.
14. DRAWING AND DESIGN OF APPROACHE SLAB SHALL BE DECIDED BY SPONSORING AUTHORITY AS PER CLAUSE 217-3 IRC CODE.
15. POT-PTFE BEARING SHALL BE PROVIDED.
16. IN CASE BLASTING IS TO BE CARRIED OUT IN, THE VICINITY OF RAILWAY LINE NECESSARY PRECAUTIONS AND BLOCK SHALL BE OBSERVED AS PER PARA 1006 OF IR WORKS MANUAL.
17. DRAINAGE ARRANGEMENTS IN RAILWAY PORTION SHALL BE PROVIDED AVOIDING TRACK BELOW AS PER STANDARD DRAWING OF MOST.
18. SUITABLE JACKING POINTS SHALL BE PROVIDED FOR FITTING GIRDERS FOR INSPECTION /REPAIR OF BEARINGS.
19. CONTROLLED CEMENT CONCRETE MIX TO BE PROVIDED AND SHOULD NOT BE LEANER THEN PROVISION IN RAILWAY'S CONCRETE BRIDGE CODE.
20. CONCERNED LEVEL CROSSING SHOULD BE CLOSED SIMULTANEOUS COMMISSIONING OF ROB.
21. 4 NO STAIRCASE SHOULD BE PROVIDED BEYOND R/Ys BOUNDARY FOR THE USE OF PEDESTRIANS.
22. MOU TO BE DRAWN WITH TRAFFIC DEPARTMENT FOR BLOCK & CAUTIONS BEFORE STARTING THE WORK.
23. AGGREMENT DOCUMENT DULY SIGNED BY STATE AUTHORITY TO BE SUBMITTED.
24. LC SHOULD BE CLOSED AFTER CONSTRUCTION AND COMMISSIONING OF ROB.
25. INSPECTION LADDERS FROM ROAD TO PIERS TOP AND INSPECTION PLATFORMS IN THE PIERS SHALL BE INCORPORATED IN THE STRUCTURAL DRGS.
26. BARRICADING OF WORKS SITE WILL BE PROVIDED AS PER PCE'S LETTER NO. 524/W/1/NCR/TP /PT-X DN 04.05.2013, & CBE'S LETTER NO 260/W-1/ROB/PT-II DATD. 17.05.2013.
27. WEARING COAT OF CONCRETING SHALL BE PROVIDED.
28. DETAILS OF TYPE & SIZE OF RED BLOCK & BEARING WILL BE GIVEN IN STRUCTURAL DRAWINGS.
29. REQUIRED LAND FOR CONNECTION ROAD WILL BE OBTAINED LATER.
30. PROTECTION SCREEN SHALL BE PROVIDED AS PER ACTUAL FROM INSIDE ONLY.
31. NECESSARY MODIFICATION IN CHE TO BE DONE BEFORE COMMISSIONING OF ROB, TRD ESTIMATE IS REQUIRED AND AGENCY DECIDED.
32. PROTECTION SCREEN ON THE ROB SHOULD BE PER LATEST RDSO DRAWING NO. ET/C/0068/I FROM THE INSIDE OF CRASH BARRIER /RAILING.
33. TRAFFIC & POWER BLOCK OF ADEQUATE TIME WILL BE REQUIRED FOR GIRDER LAUNCHING.
34. FOR DETAILS OF SUPER STRUCTURE OF RAILWAY SPAN OF 24.00 M GIRDER REFER RDSO'S DRG NO. RDSO/B-11757/R AND 30.00 M GIRDER REFER RDSO'S DRG. NO.RDSO/B-11755/R.
35. FOOTPATH HAS BEN PROVIDED IN SUPERSTRUCTURE AND STAIRCASE HAVE GIVEN HENCE LHS/FOB NOT REQUIRED FOR CLOSURE OF LC.
36. THE ARRANGEMENT FOR PROTECTION OF WORKSITE MUST BE DONE AS PER PROVISIONS OF IR/P/WM,RAILWAY BOARD INSTRUCTIONS & PCE CIRCULAR NO.103 WILL BE STRICTLY FOLLOWED, THERE SHOULD BE NO INCONSISTENCY IN STIPULATIONS.
37. THERE IS NO INFRIGMENT TO RDSO.
38. EXISTING DETAIL SHOWN IN THE PLAN HAVE BEEN CHECKED AT SITE AND FOUND CORRECT.
39. FEASIBILITY OF PROPOSED WORK HAS BEEN CHECKED AND WORK IS FEASIBLE FOR ERECTION.

METHODOLOGY OF WORKING.

1. MODUS OPERANDI/METHODOLOGY CONSTRUCTION ACTIVITY, SAFETY PRECAUTIONS AND MEASURES TO BE OBSERVED DURING CONSTRUCTION OF ROB SHOULD BE IN ACCORDANCE OF RAILWAY BOARD LETTER NO. 97/CE-I/BRC/158/B/(POLICY) PL. II DATED 16-07-09.
2. FABRICATED STEEL GIRDER SHALL BE LAUNCHED FIRST AND THEN RCC DECK SLAB WILL BE CASTED IN SITU AFTER PROVIDING TEMP. ARRANGEMENT.
3. DETAILED LAUNCHING SCHEME WILL BE PREPARED AND SUBMITTED TO NOR FOR APPROVAL. LAUNCHING OF GIRDERS OVER RUNNING RAILWAY TRACK WILL BE DONE AS PER APPROVED LAUNCHING SCHEME.
4. ASSEMBLY/FABRICATING OF GIRDERS AND SLAB WILL BE EXECUTED UNDER SPEED RESTRICTION AS PER CBE/NCR LETTER NO. W/ROB/ PARSEV CIRCULAR-B/13 DATED 22.02.2017.
5. THE WORK UNDER TRAFFIC BLOCK SHALL BE CARRIED OUT UNDER THE PROVISION OF BANNER FLAG AND PROTECTION OF ENGG. FLAGMEN.

NCR/HQ/PLAN NO-NCR/ENGG/GAD/ROB/133-2019

REV	DATED	DESCRIPTION
R2	FEB.-2019	REVISED AS PER RAILWAY LETTER NO.260-W/551/Bridge-GAD-ROB,DT:18.02.2019
R1	NOV.-2018	REVISED AS PER RAILWAY LETTER NO.260-WS No.ROB/CNB-TDL/DFCCIL-TDL,DT:30.10.2018

REVISIONS

ALLAHABAD DIVISION (N.C.RLY)

PROPOSED TWO LANE ROB COMPOSITE SPAN 1x24.00+1x30.00 M FOR OBLIGATORY SPAN, 24.0M PSC APPROACH SPAN IN LIEU OF L-XING NO.LC14C/3E AT RLY KM 1119/5-7 BETWEEN GHASARA CHHACHHOUND ROAD TO NAGLA KHAGA-ACHALDA VILLAGE ROAD,STATION IN ETAWAHA ,GHASARA TO KANPUR, ACHALDA ON SECTION TUNDLA TO KANPUR KANPUR OF NORTH CENTRAL RAILWAY ALLAHABAD (SKEW ANGLE AT IR-0° & DFCC-0°)

(TVU: 21087, DT:11/2015)

GENERAL ARRANGEMENT DRAWING (RAILWAY PORTION)

DRG. NO.	RITES/R/ROED/DFC/ROB/GAD/ RAILWAY PORTION
SH. NO.	1 OF 3
DATE	FEBRUARY, 2019
REV.	R2

RITES

NCR/HQ- OFFICERS		DIVISIONAL OFFICERS						DFCCIL OFFICERS		RITES LTD.				
(SH. A.K. DARIYA) CBE/DRM	(SURESH CHANDRA) DY CE/SR/NCR	(SH. SINHA) AXEN/SR/NCR	(SH. AMITABH) DRM	(SH. MANG) SR.DOM	(SH. ATUL GUPTA) SR.DEN/CO	(SH. NEERAJ YADAV) SR.DSTE/SIG	(SH. AMITABH SHARMA) SR.DEE/TRD	(SH. P. K SHAKYA) SR.DEN/IV	(SH. ATUL B. KHARE) GSM/DFC/TDL	(SH. SANDESH SRIVASTAVA) GM/CIVIL/TDL	(NEELAM CHAUHAN) DRAWN BY	(ATIF AHMED) MANAGER/D	(MD. NOMAN) MANAGER/D	(D.S. NEGI) AGM/D	(A.K.MATHUR) GGM/RCED