

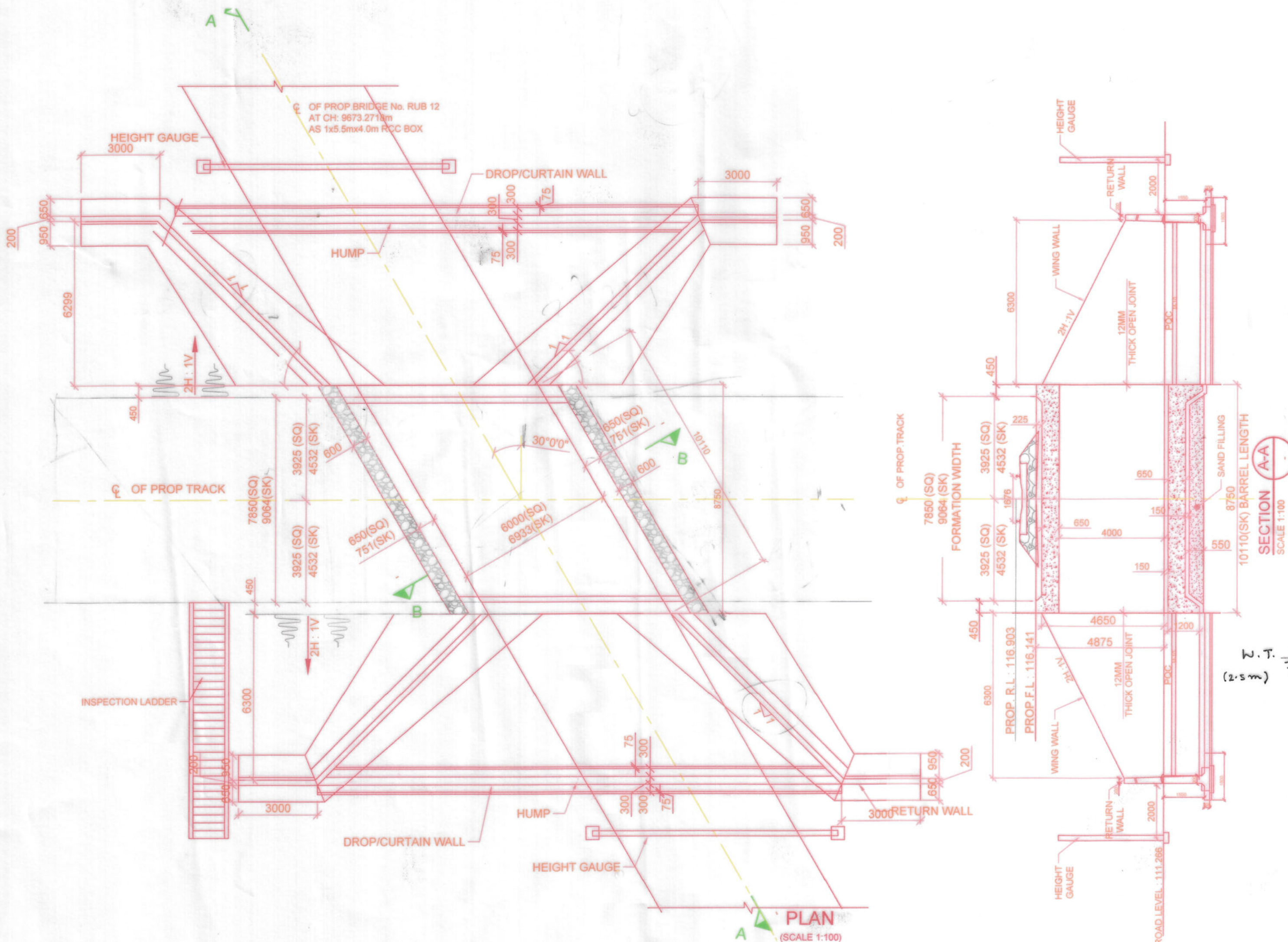
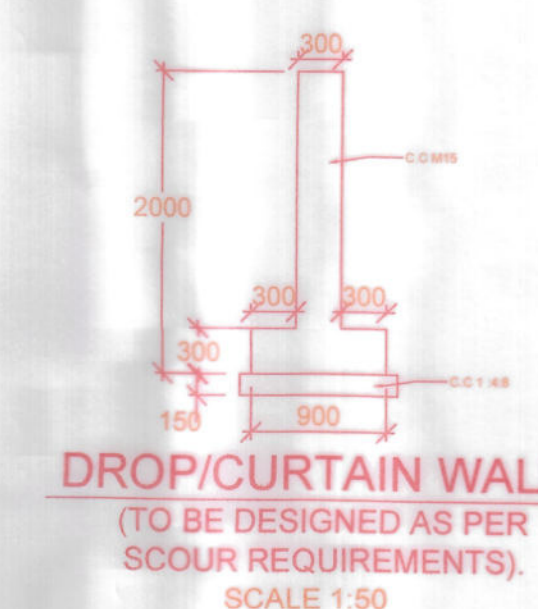
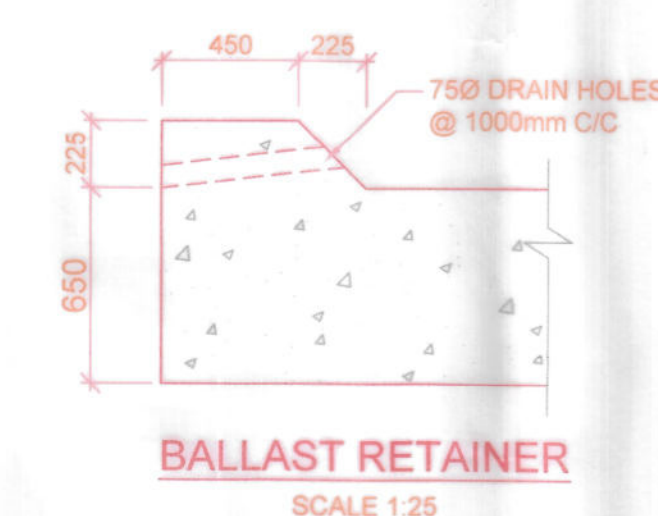
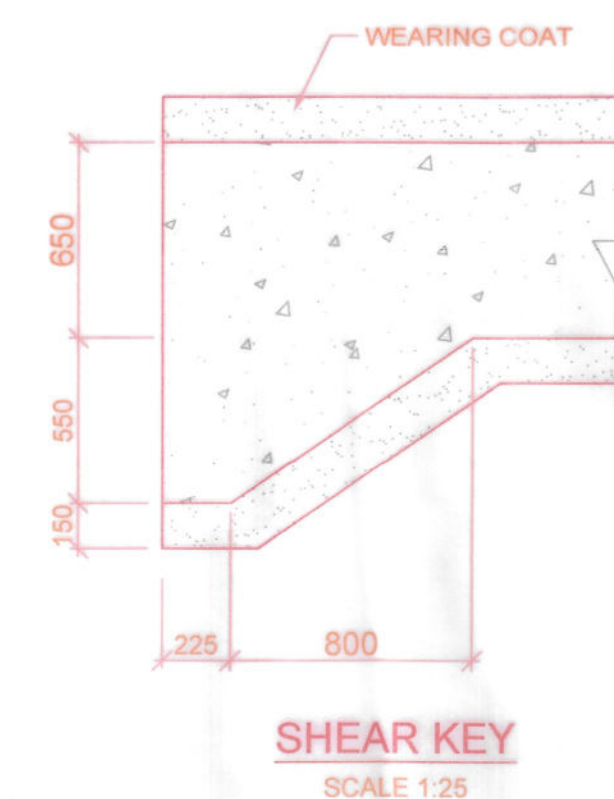
- NOTES :**
1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METERS UNLESS OTHERWISE MENTIONED.
 2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 3. ALL REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS (GRADE DESIGNATION FE-415) CONFORMING TO IS: 1786.
 4. MINIMUM LAP LENGTH OF REINFORCEMENT FOR M 35 SHALL BE 48 TIMES BAR DIA.
 5. THE BRIDGE LIES IN SEISMIC ZONE IV.
 6. ENSURE PROPER COMPACTION OF SOIL BEHIND RETAINING WALLS.
 7. BEHIND RCC BOX WELL HAND PACKED BOULDERS/COBBLES TO A THICKNESS NOT LESS THAN 600 MM WITH SMALLER SIZE TOWARD, SHALL BE PROVIDED AS PER DRAWING & AS PER CLAUSE 7.5 OF IRC BRIDGES SUB STRUCTURE AND FOUNDATION CODE.
 8. MAXIMUM DESIGN FOUNDATION PRESSURE COME OUT 21 t/m².
 9. FOR REINFORCEMENT DETAIL OF RCC BOX SEE DRAWING NUMBER RDSO/B-10161/1R & RDSO/B-10161/R.
 10. RCC BOX WITH KEY CONSTRUCTION AS PER DRAWING NUMBER RDSO/B-10161/1R & RDSO/B-10161/R.
 11. EPOXY GROUTING WITH GI SHEET ON BOTTOM OF JOINTS TO BE PROVIDED TO PREVENT ANY LEAKAGES AT JOINT. IF REQUIRED.
 12. SUITABLE GRANULAR MATERIALS TO BE PROVIDED BELOW RCC BOX TO IMPROVE BEARING CAPACITY OF SOIL, IF REQUIRED.
 13. FOR RCC WORK DESIGN MIXED M35 WILL BE USED EXCEPT UNLESS OTHERWISE SPECIFIED.
 14. WATERPROOFING COMPOUND MIX WITH CONCRETE FOR WATERPROOFING
 15. ON BOTH APPROACHES SHED WILL BE AS PER DRAWING & DESIGN IF REQUIRED.
 16. BEHIND RCC BOX WELL HAND PACKED BOULDERS/COBBLES TO A THICKNESS NOT LESS THAN 600MM WITH SMALLER SIZE TOWARDS BACK FILL, SHALL BE PROVIDED AS PER DRAWING & AS PER CLAUSE 7.5 OF IRC BRIDGE SUB STRUCTURE & FOUNDATION CODE.
 17. TOP OF RETAINING WALL SHALL BE KEPT MINIMUM 500 MM ABOVE THE EXISTING GROUND LEVEL AT ALL LOCATIONS IN APPROACH.
 18. BEFORE EXECUTION OF WORK FEASIBILITY WILL BE CHECKED BY SITE ENGINEER.
 19. LAYOUT SHOULD BE CHECKED BY AXEN/XEN/CON & ALL REFERENCE, PILLARS & LINE SHOULD BE KEPT INTACT TILL THE ENTIRE WORK IS COMPLETED.
 20. HEIGHT GAUGE, SPEED BREAKER WARNING BOARD ETCO SHOULD BE PROVIDED ON BOTH END OF THE SUBWAY.
 21. RCC WATER COLLECTION CHAMBER FOR THE RAINWATER, INFILTRATING INTO THE APPROACH ROAD AND LHS SHOULD BE CAST MONOLITHICALLY WITH RCC FLOOR AND WALL SO THAT NO INGRESS OF GROUND WATER IN IT.
 22. AS THE GROUND WATER LEVEL IS HIGH ALL THE NECESSARY PRECAUTIONS TO BE TAKEN TO PROTECT THE LHS FROM WATER LOGGING ETC.
 23. RECOMMENDATION GIVEN IN RLY B'S LETTER NO. 2017/CE-IV/RUB/88DT.22/04/2020 SHOULD BE FOLLOWED AS PER SITE CONDITION.
 24. LAND WILL BE ACQUIRED AS PER SITE CONDITION.
 25. WING/RETURN WALL AS PER CE/CON. PLAN NO. B/14/02-11 DT.- 11.02.11
 26. CURTAIN/DROP WALL TO BE MAINTAINED AND DESIGNED PER SCOUR REQUIREMENTS.
 27. TYPE OF ROAD IS CHANKUHWA-TOMRI BAZAR.
 28. SHARP CURVE IN THE APPROACH ROAD TO BE AVOIDED.
 29. HEIGHT GAUGE AS PER RDSO DRG. RDSO/N-0001.
 30. SOIL BEARING CAPACITY AFTER STRENGTHENING OF SOIL AND CONFIRMED BY PLATE LOAD TEST SHOULD BE MENTION IN COMPLETION PLAN.
 31. HUMP AS PER RDSO DRAINING NO. B-10161.
 32. BOULDER PACKING BEHIND WING AND RETURN WALL MUST BE AS SHOWN IN SECTION.
 33. FIELD UNIT MUST PRE-VALIDATE ALL DATA AND LEVELS BEFORE STARTING EXECUTION OF WORK.

TRACK DETAILS

PROP R.L	116.903
PROP F.L	116.141
VERTICAL ALIGNMENT	LEVEL
HORIZONTAL ALIGNMENT	STRAIGHT

LEGEND	
F.L	FORMATION LEVEL
R.L	RAIL LEVEL
P.R.L	PROPOSED ROAD LEVEL
BOF	BOTTOM OF FOUNDATION
PROP	PROPOSED
EXG	EXISTING
THK.	THICKNESS
CH.	CHAINAGE
PCC	PLAIN CEMENT CONCRETE
RCC	REINFORCED CEMENT CONCRETE
BR.	BRIDGE
PRL	PROPOSED ROAD LEVEL
ERL	EXISTING ROAD LEVEL

CONSTRUCTION DEPTH	
1) RAIL (60kg)	172 mm
2) RUBBER PAD	10 mm
3) WIDER PSC SLEEPER HEIGHT AT RAIL SEAT	230 mm
4) MINIMUM BALLAST THK.	350 mm
TOTAL	762 mm




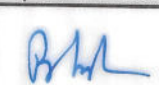


SECTION: CHITAUNI TO MADHUBAN
Bore Hole Terminated at : 10.45M

DEPTH (M)		SPT N-VALUE	DESCRIPTION OF SOIL	IS CLASSIFICATION
0.00	0.50	--		
0.50	0.95	7	SM	MEDIUM LITE GREY, SILTY SAND (SW)
1.50	1.95	10		
3.00	3.45	13		
4.50	4.95	14		
6.00	6.45	18	SP	MEDIUM LITE GRAY SILTY GRAINED SAND
7.50	7.95	21		
9.00	9.45	23		
10.00	10.45	25		

S.NO.	BR.NO.	CHAINAGE	SIZE OF STRUCTURE	SKEW ANGLE	R.L	F.L	G.L	P.R.L	F.L
			NO.XSPAN (M)XHT.(M)	DEGREE	RAIL LEVEL	FORMATIO N LEVEL	GROUNDLEVEL /EXISTING ROAD LEVEL	PROP. ROAD LEVEL	FOUNDING LEVEL
12	12	9673.2718	1X6. X4.0	30°	116.903	116.141	111.266	111.266	110.316

**FOR EPC
TENDER ONLY**

 (G.K. MISHRA) SSE/W/CON/GKP	RANJEET KUMAR SINGH	Digitally signed by RANJEET KUMAR SINGH Date: 2025.06.02 13:31:18 +05'30'	 (BILAL AHMAD) SSE/DES/CON/GKP	DRAWN	CHK
	(R.K. SINGH) SSE/DRG/CON/CPR	JE/DES/CON/GKP			

LOADING STANDARD 25T-AXLE LOAD-2008		CE / CON / I/GKP		 (SANJAY KANJIA)	
DY. CE / CON / BSB		Digitally signed by PANKAJ PANDEY DN: cn=PANKAJ PANDEY, o=, ou=, email=pankaj.pandey@railways.gov.in, c=IN 1343104140930 (PANKAJ PANDEY)		DY. CE / CON. / P&D	
XEN / CON / GKP.		Digitally signed by SHASHI KANT SINGH DN: cn=SHASHI KANT SINGH, o=, ou=, email=shashi.kant.singh@railways.gov.in, c=IN (S.K.SINGH)		XEN / C / DESIGN  (R.K.SINGH)	
CONST. & HQ. OFFICER'S SIGNATURE					
CLIENT : NORTH EASTERN RAILWAY					
					
PROJECT : CHITAUNI-TAMKUHI ROAD NEW LINE PART-1					
TITLE : GENERAL ARRANGEMENT DRAWING FOR PROPOSED BR. NO. 12 (1X6.0MX4.0M) (RUB) KM 9/6-7					
BETWEEN STATION :-CHITAUNI-MADHUBANI		KM : 9/6-7 CH- 9673.278 M			
TYPE OF MAP : GENERAL ARRANGEMENT DRAWING					
FILE NO. AAA2844/STR/BR.NO. 12/GAD/001					
CONSULTANT					
 arvee associates architects engineers & consultants pvt. ltd.					
CE Plan No		B/RB/C/E-TOL/15/116-2025		SCALE	AS SHOWN
Date: 10/06/2025				SHEET : 1/1	