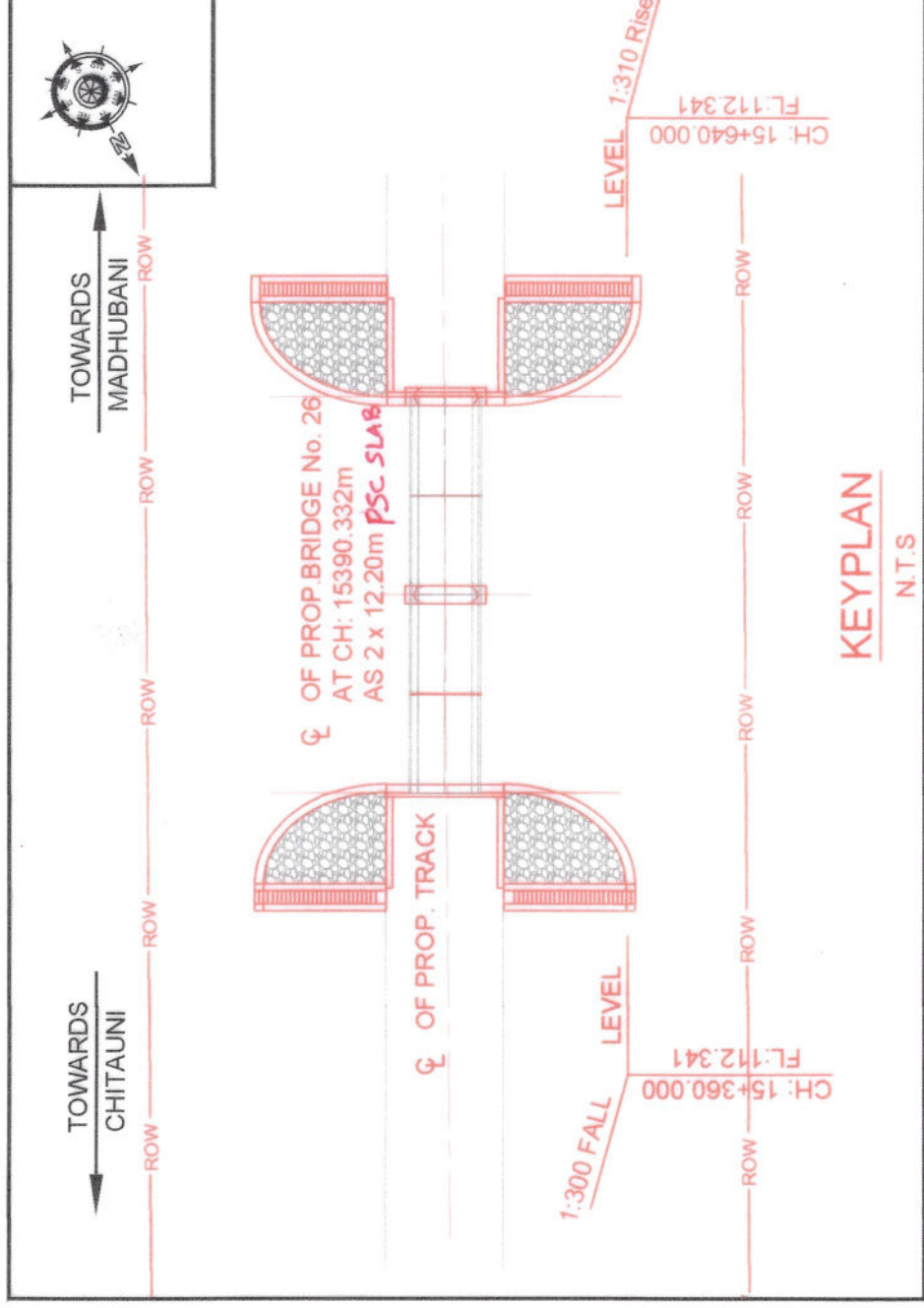


AUTHORITY OF WORK
 PINK BOOK- 2024-25
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- NOTE:-
 1. PROPOSED WORKS SHOWN RED.
 2. ALL DIMENSIONS ARE IN mm & ALL LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 3. MINIMUM GRADE OF CONCRETE TO BE FOLLOWED :
 (a) BED BLOCK - M35
 (b) ABUTMENT/PIER - M30
 (c) PILE CAP - M35c
 (d) PILE - M35
 4. THE DESIGN BASED ON FOLLOWING CODE WITH LATEST CORRECTION SLIPS.
 (a) IRS BRIDGE SUBSTRUCTURE AND FOUNDATION CODE.
 (b) ROAD DESIGN MANUALS.
 (c) IRS CONCRETE BRIDGE CODE.
 (d) IS 456-2000.
 (e) IS 2811-2010 PART-1 SECTION 2.
 5. ALL THE CONCRETE SHALL BE DESIGNED MIXED CONTROLLED CONCRETE AS PER I.R.S CONCRETE BRIDGE AND IS 456-2000.
 6. THE CRUSHING STRENGTH OF CONCRETE SHALL BE AS PER CRITERIA SPECIFIED IN I.R.S CONCRETE BRIDGE CODE AND IS 456-2000.
 7. FOR SUPER STRUCTURE DRAWING RDSO-B-1027/IR AND ALL THE RELATED DRAWINGS.
 8. INSPECTION LADDERS AREA TO PROVIDED ON PIERS / ABUTMENTS AS PER SPECIFICATION FOR ACCESS TO BED BLOCKS FOR INSPECTION.
 9. REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED BARS.
 10. ONLY ONE TYPE OF CEMENT & STEEL WILL BE USED ON A PARTICULAR BRIDGES AND BRAND OF CEMENT AND STEEL SHOULD BE APPROVED BY DY. CE / CON OF THE PROJECT.
 11. DIMENSIONS GIVEN IN THIS DRAWING MUST BE RECONCILED AT SITE BEFORE START OF THE WORK FOR FEASIBILITY.
 12. CONTROLLED CONCRETE/DESIGN MIX CONCRETE WITH WEIGHT BATCHING OR AUTOMATIC WEIGHT BATCHING WITH PAN MIXTURE IF APPLICABLE SHALL BE USED.
 13. THE BACKFILL BEHIND ABUTMENT, WING WALL AND RETURN WALL SHOULD BE AS PER CLAUSE 7.5 OF I.R.S BRIDGE SUB-STRUCTURE AND FOUNDATION CODE WITH UP TO DATE ALL CORRECTION SLIPS.
 14. 600MM FILTER MEDIA SHALL BE PROVIDED WITH HAND PACKED BOULDERS BEHIND THE WING WALLS AND RETURN WALLS TO PREVENT BOULDERS FROM BEING WASHED AWAY.
 15. OUT FLOW OF BACK FILLED MATERIALS.
 16. WEEP HOLES SHALL BE 75/100 DIA PVC PIPES STAGGERED 1000MM C/C HORIZONTALLY AND VERTICALLY ABOVE L.W.L OR F.S.L IN CASE OF CANAL BRIDGE IN BOTH WING/RETURN WALL AND EARTH RETAINER / ABUTMENT OF BRIDGE SHOULD BE AS PER CLAUSE 7.6 OF I.R.S BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
 17. THE BANK SLOPES BEYOND THE BOULDERS PITCHING SHALL BE PROTECTED FROM RAIN CUTS BY PROVIDING TURFING.
 18. ALL WORK SHALL BE CARRIED OUT AS PER THE INSTRUCTIONS & SUPERVISION OF ENGINEER-IN-CHARGE.
 19. SHARP EDGES OF CONCRETE SHALL BE CHAMFERED.
 20. EXPOSURE CONDITION OF BRIDGES IS MODERATE.
 21. PER W/CON/29/C/AV-I/PART-III DATED 11-11-2009.
 22. SEPARATE DRAWING WILL BE ISSUED FOR RETURN TOE WALL.
 23. DIMENSION SHOWN IN SUBSTRUCTURE AND SOIL REPORT WILL BE SUBMITTED ALONG WITH STRUCTURAL DRAWINGS.
 24. THE DEPTH OF PILES SHOWN IN DRAWING MAY VARIATES AT THE TIME OF DESIGNING OF THE SUB STRUCTURE OF BRIDGES.
 25. THE EXECUTION OF BRIDGES WILL START AFTER APPROVAL OF DESIGN FROM RAILWAYS.
 26. DUCTILE DETAILING OF REINFORCEMENT CONCRETE SHALL BE AS PER IRS FROM RAILWAYS.
 27. INITIAL PILE TEST REPORT MUST BE APPROVED BY CE/CON BEFORE EXECUTION OF WORKING PILE.
 28. TRANSITION SYSTEM SHOULD BE PROVIDED AT BOTH END OF ABUTMENT AS PER RDSO DRG. NO. GE/SK/G1/912/REV.0/2024.
 29. MINIMUM 150 MM PROJECTION IN BEARING PEDESTAL IS REQUIRED.
 30. LIQUEFACTION ANALYSIS TO BE SUBMITTED WITH DESIGN.
 31. SUB-STRUCTURE PROPOSED IS FOR SINGLE LINE TRACK ONLY.
 32. FIELD UNIT MUST PRE VALIDATE ALL DATA AND LEVELS BEFORE EXECUTION OF WORK COMMENCES.
 33. LATEST RAILWAY BOARD GUIDELINES REGARDING RSI ANALYSIS MUST BE FOLLOWED.
 34. CEMENT DETAILS WILL BE ISSUED SEPARATELY.
 35. CFS MINOR SECTION IS REQUIRED TO BE TAKEN BEFORE EXECUTION OF WORK STARTS.
 36. THE EXECUTION OF BRIDGE WORK AT SITE SHALL START AFTER APPROVAL OF DESIGN FROM RAILWAYS.
 37. FOOTPATH SLAB AS PER RDSO DRG. NO. B-10284 MUST BE PROVIDED.
 38. DIMENSION OF J-TYPE RETAIN WALL TO BE DECIDED AS PER SITE.



SECTION: CHITAUUNI TO MADHUBANI
 Bore Hole Terminated at: 40.45M.

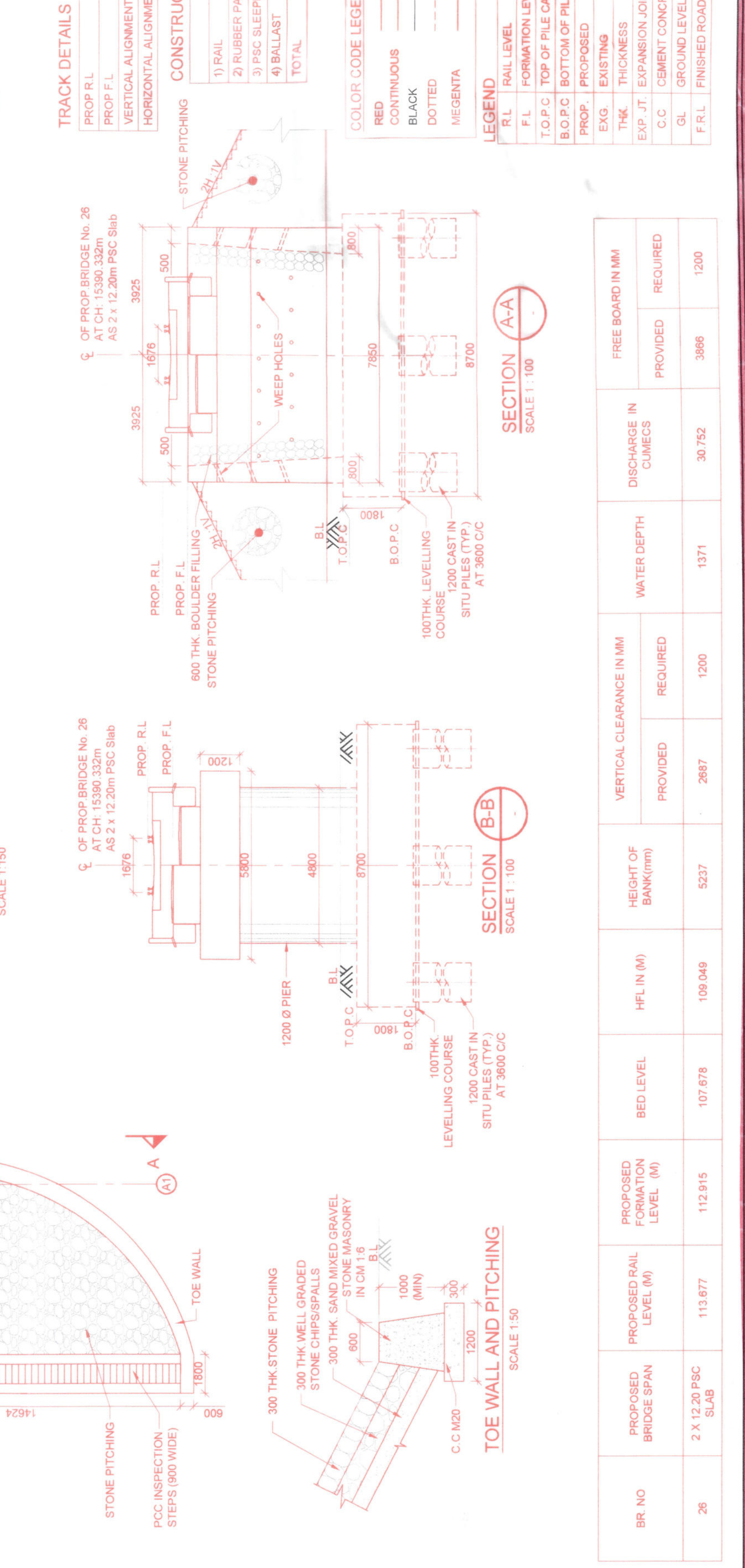
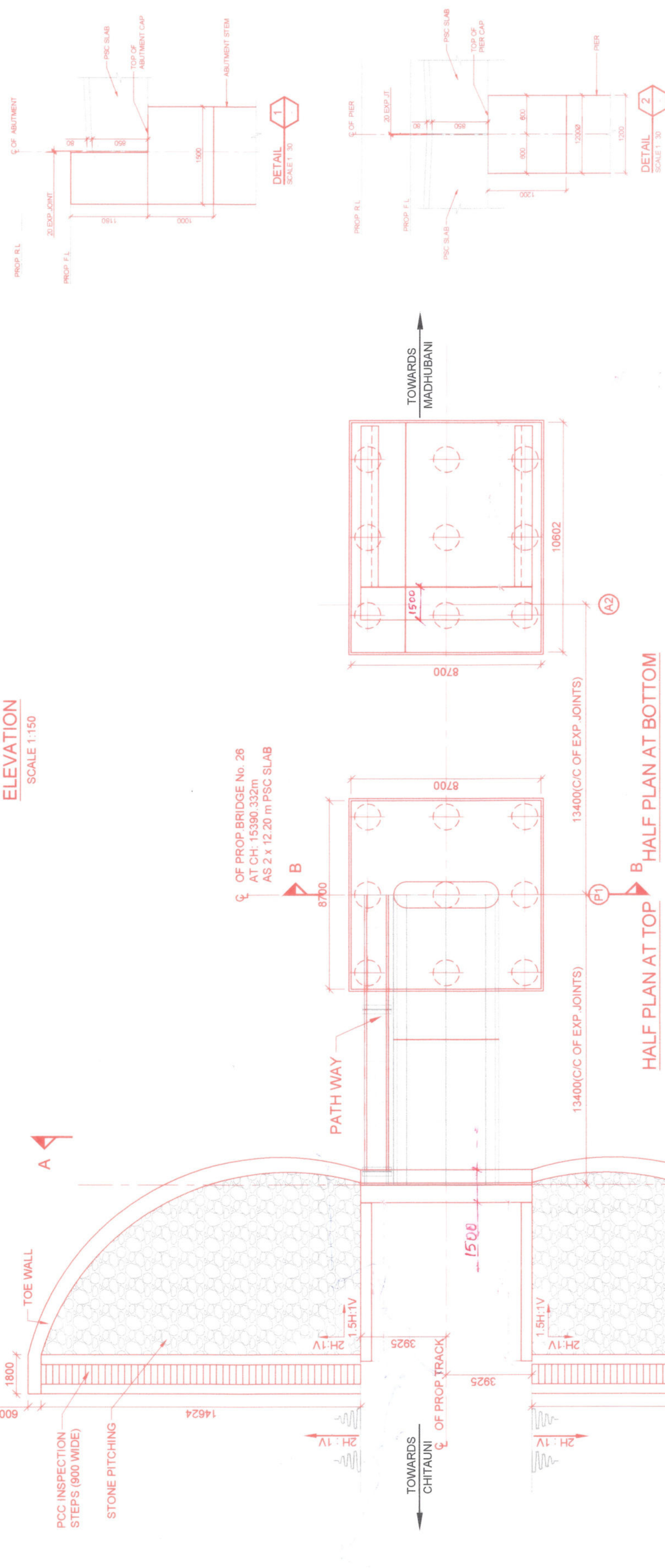
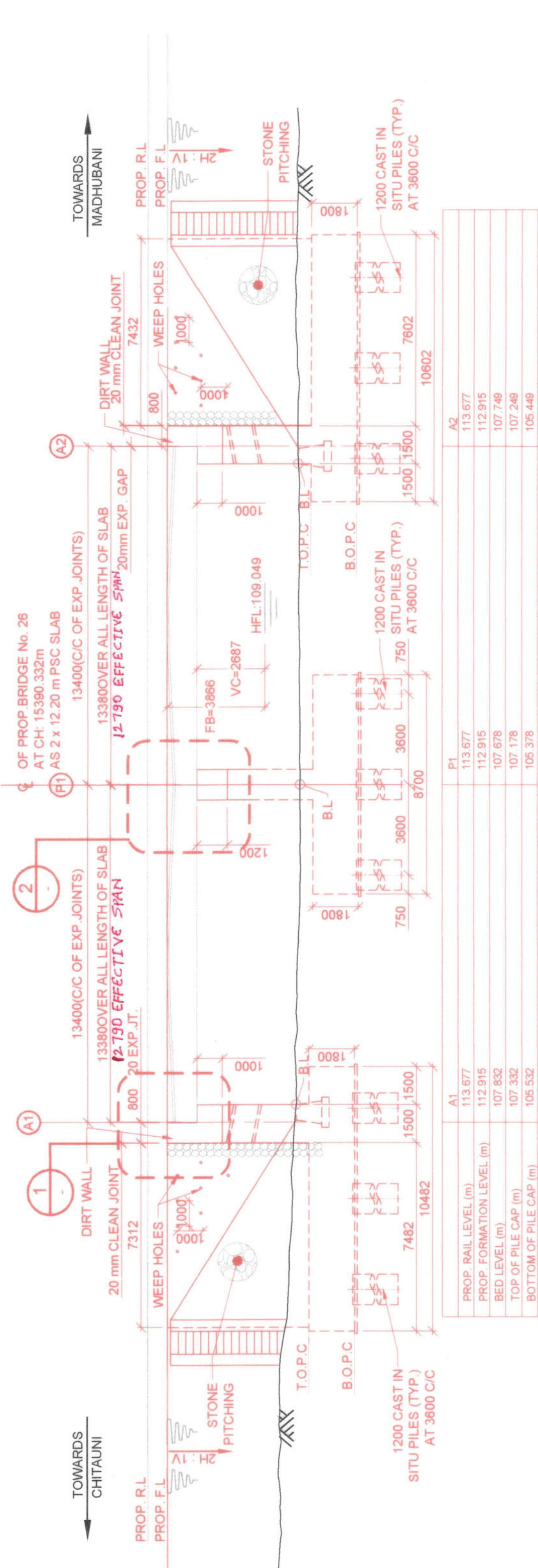
DEPTH (M)	SPT N-VALUE	DESCRIPTION OF SOIL	IS CLASSIFICATION
0.00	1.5	ML	IS CLASSIFICATION
1.50	1.95	4	LOOSE TO MEDIUM DENSE, LITE GREY, SILTY SAND (SM)
3.00	3.45	7	
4.50	4.95	8	
6.00	6.45	11	
7.50	7.95	15	
9.00	9.45	14	
10.50	10.95	16	
12.00	12.45	7	
13.50	13.95	13	
15.00	15.45	17	
16.50	16.95	21	
18.00	18.45	25	
19.50	19.95	33	
21.00	21.45	36	
22.50	22.95	38	
24.00	24.45	34	
25.50	25.95	41	
27.00	27.45	46	
28.50	28.95	51	
30.00	30.45	48	
31.50	31.95	55	
33.00	33.45	60	
34.50	34.95	74	
36.00	36.45	82	
37.50	37.95	86	
39.00	39.45	90	
40.00	40.45	100	

BRIDGE NO.: 26
 BOREHOLE NO.: 02

SECTION: CHITAUUNI TO MADHUBANI
 Bore Hole Terminated at: 40.45M.

DEPTH (M)	SPT N-VALUE	DESCRIPTION OF SOIL	IS CLASSIFICATION
0.00	1.5	ML	IS CLASSIFICATION
1.50	1.95	6	SM
3.00	3.45	8	
4.50	4.95	11	
6.00	6.45	13	
7.50	7.95	15	
9.00	9.45	17	
10.50	10.95	16	
12.00	12.45	19	
13.50	13.95	24	
15.00	15.45	28	
16.50	16.95	22	
18.00	18.45	24	
19.50	19.95	29	
21.00	21.45	36	
22.50	22.95	39	
24.00	24.45	48	
25.50	25.95	52	
27.00	27.45	47	
28.50	28.95	55	
30.00	30.45	60	
31.50	31.95	68	
33.00	33.45	63	
34.50	34.95	70	
36.00	36.45	72	
37.50	37.95	80	
39.00	39.45	75	
40.00	40.45	90	

BRIDGE NO.: 26
 BOREHOLE NO.: 01



TRACK DETAILS

PROP R/L	113.077 m
PROP F/L	112.315 m
HORIZONTAL ALIGNMENT	STRAIGHT

CONSTRUCTION DEPTH

PROP LINE	172 mm
1) RAIL	10 mm
2) RUBBER PAD	230 mm
3) PSC SLEEPER	350 mm
4) BALLAST	762 mm
TOTAL	

COLOR CODE LEGEND

RED	PROPOSED
CONTINUOUS	VISIBLE
BLACK	EXISTING
DOTTED	INVISIBLE
MAGENTA	FUTURE

LEGEND

R/L	RAIL LEVEL
F/L	FORMATION LEVEL
T.O.P.C	TOP OF PILE CAP
B.O.P.C	BOTTOM OF PILE CAP
PROP.	PROPOSED
EXG.	EXISTING
THK.	THICKNESS
EXP. JT.	EXPANSION JOINT
C.C	CEMENT CONCRETE
GL	GROUND LEVEL
F.R.L	FINISHED ROAD LEVEL

SECTION A-A
 SCALE 1:100

SECTION B-B
 SCALE 1:100

BR. NO	PROPOSED RAIL BRIDGE SPAN	PROPOSED RAIL FORMATION LEVEL (M)	HFL IN (M)	HEIGHT OF BANK (mm)	VERTICAL CLEARANCE IN MM	WATER DEPTH	DISCHARGE IN CUMECs	FREE BOARD IN MM
26	2 X 12.20 PSC SLAB	113.877	109.049	5237	2887	1371	30.752	3866
					PROVIDED	REQUIRED		

CE / CON / I/GKP	(SANKU KANAKA)
DY. CE / CON / P&D	(PANKAJ PANDEY)
XEN / C / DESIGN	(R.K. SINGH)
CONST. & HQ. OFFICER'S SIGNATURE	

CLIENT : NORTH EASTERN RAILWAY	
PROJECT : CHITAUUNI-TAMKUHI ROAD NEW LINE PART-1	
TITLE : GENERAL ARRANGEMENT DRAWING FOR PROPOSED BR. NO. 26 (2X12.20M) (PSC SLAB) KM 15/3-4	
BETWEEN STATION - CHITAUUNI-MADHUBANI KM : 15/3-4 CH - 15390.33M	
TYPE OF MAP : GENERAL ARRANGEMENT DRAWING	
FILE NO. AAA/2844/ST/BR NO. 26/GAD/001	
CONSULTANT	
CE/CON / Plan No. B/CTE-TOI/18/167/2025	SCALE AS SHOWN
SHEET : 1/1	

FOR EPC
 TENDER ONLY

RANJEET KUMAR SINGH (G.K. WISHRA) SSE/WCON/GKP	JEDES/CON/GKP	(BILAL AHMAD) (R.K. SINGH) SSE/DES/CON/GKP
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