




- NOTES:**
- ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METERS UNLESS OTHERWISE MENTIONED.
 - DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 - ALL REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS (GRADE DESIGNATION F-500) CONFORMING TO IS: 1786.
 - MINIMUM LAP LENGTH OF REINFORCEMENT FOR M 35 SHALL BE 48 TIMES BAR DIA.
 - THE BRIDGE LIES IN SEISMIC ZONE IV.
 - ENSURE PROPER COMPACTION OF SOIL BEHIND RETAINING WALLS.
 - BEHIND RCC BOX WALL HAND PACKED BOULDERS/CORBLES TO A THICKNESS NOT LESS THAN 600 MM WITH SMALLER SIZE TOWARD, SHELL BE PROVIDED AS PER DRAWING & AS PER CLAUSE 7.5 OF IRC BRIDGES SUB STRUCTURE AND FOUNDATION CODE.
 - MAXIMUM DESIGN FOUNDATION PRESSURE COME OUT 125kN/m².
 - FOR REINFORCEMENT DETAIL OF RCC BOX SEE DRAWING NUMBER RD50/B-10155/1 & RD50/B-10155/2.
 - RCC BOX WITH KEY CONSTRUCTION AS PER DRAWING NUMBER RD50/B-10155 & RD50/B-10155/1.
 - EPOXY GROUTING WITH GI SHEET ON BOTTOM OF JOINTS TO BE PROVIDED TO PREVENT ANY LEAKAGES AT JOINT. IF REQUIRED.
 - SUITABLE GRANULAR MATERIALS TO BE PROVIDED BELOW RCC BOX TO IMPROVE BEARING CAPACITY OF SOIL, IF REQUIRED.
 - FOR RCC WORK DESIGN MIXED M35 WILL BE USED EXCEPT UNLESS OTHERWISE SPECIFIED.
 - WATERPROOFING COMPOUND MIX WITH CONCRETE FOR WATERPROOFING.
 - ON BOTH APPROACHES SHED WILL BE AS PER DRAWING & DESIGN IF REQUIRED. BEHIND RCC BOX WALL HAND PACKED BOULDERS/CORBLES TO A THICKNESS NOT LESS THAN 600 MM WITH SMALLER SIZE TOWARDS BACK FILL, SHALL BE PROVIDED FOUNDATION & AS PER CLAUSE 7.5 OF IRC BRIDGES SUB STRUCTURE & FOUNDATION CODE.
 - TOP OF RETAINING WALL SHALL BE KEPT MINIMUM 500 MM ABOVE THE EXISTING GROUND LEVEL AT ALL LOCATIONS IN APPROACH.
 - BEFORE EXECUTION OF WORK FEASIBILITY SHALL BE CHECKED BY SITE ENGINEER.
 - LAYOUT SHOULD BE CHECKED BY AGEN/EN/CON & ALL REFERENCE PILLARS & LINE SHOULD BE KEPT INTACT TILL THE ENTIRE WORK IS COMPLETED.
 - UNDO GAUGE, SPEED BREAKER WARNING BOARD ETCO SHOULD BE PROVIDED ON BOTH END OF THE SUBWAY.
 - 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.
 - AS THE GROUND WATER LEVEL IS HIGH ALL THE NECESSARY PRECAUTIONS TO BE TAKEN TO PROTECT THE LHS FROM WATER LOGGING ETC.
 - RECOMMENDATION GIVEN IN RLY BD'S LETTER NO. 2017/CE-IV/RUB/88BDT-22/04/2020 SHOULD BE FOLLOWED AS PER SITE CONDITION.
 - LAND WILL BE ACQUIRED AS PER SITE CONDITION.
 - WING/RETURN WALL AS PER DESIGN.
 - CURTAIN/DROP WALL TO BE PROVIDED AND DESIGNED PER SCOUR REQUIREMENTS.
 - TYPE OF ROAD IS VILLAGE ROAD.
 - SHARP CURVE IN THE APPROACH ROAD TO BE AVOIDED.
 - HEIGHT GAUGE AS PER RD50 DRG. RD50/M-001.
 - SOIL BEARING CAPACITY AFTER STRENGTHENING OF SOIL AND CONFIRMED BY PLATE LOAD TEST SHOULD BE MENTION IN COMPLETION PLAN.
 - PUMP AS PER RD50 DRAWING NO. B-10155.
 - BOULDER PACKING BEHIND WING AND RETURN WALL MUST BE AS SHOWN IN SECTION.

LOADING STANDARD
25-TAXI LOAD-2008

CE / CON / I/GKP	 (SUNJAY KANOU)
DY. CE / CON / P&D	 (SHALUDEVI SINGH)
XEN / C / DESIGN	 (R.K. SINGH)

CONST. & HQ. OFFICER'S SIGNATURE

CLIENT :

NORTH EASTERN RAILWAY

PROJECT :

CHITAUINI-TAMKUHI ROAD NEW LINE
PART-1

TITLE : GENERAL ARRANGEMENT DRAWING FOR PROPOSED
BR. NO. 44 (1X5.5MX4.0M) (RUB) KM 250+1

BETWEEN STATION : CHITAUINI-MADHUBANI

KM : 250+1 CH: 25037.867M

TYPE OF MAP : GENERAL ARRANGEMENT DRAWING

FILE NO. AAA/2844/STRIBR NO. 44/GAD/001

CONSULTANT

ARISE ASSOCIATES PVT. LTD.
INFRASTRUCTURE & CONSULTANCY

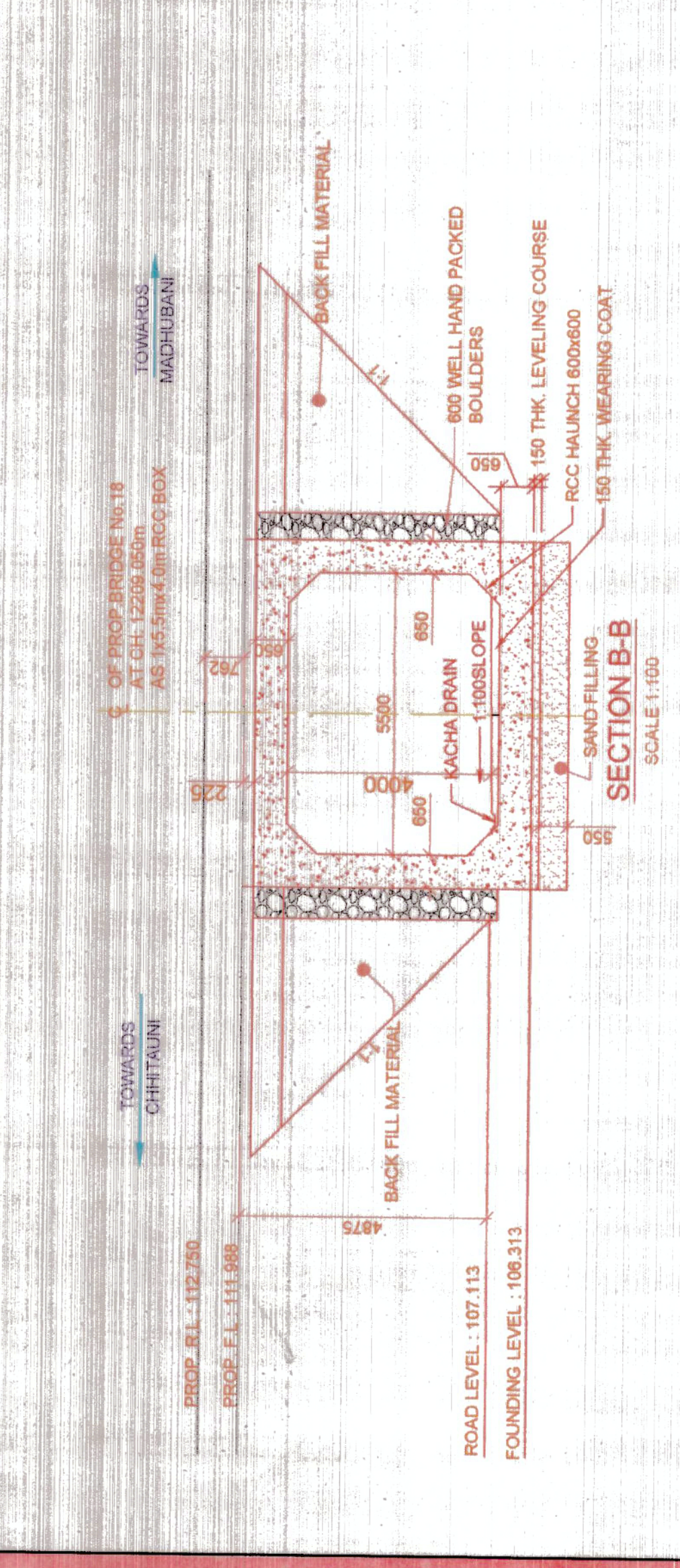
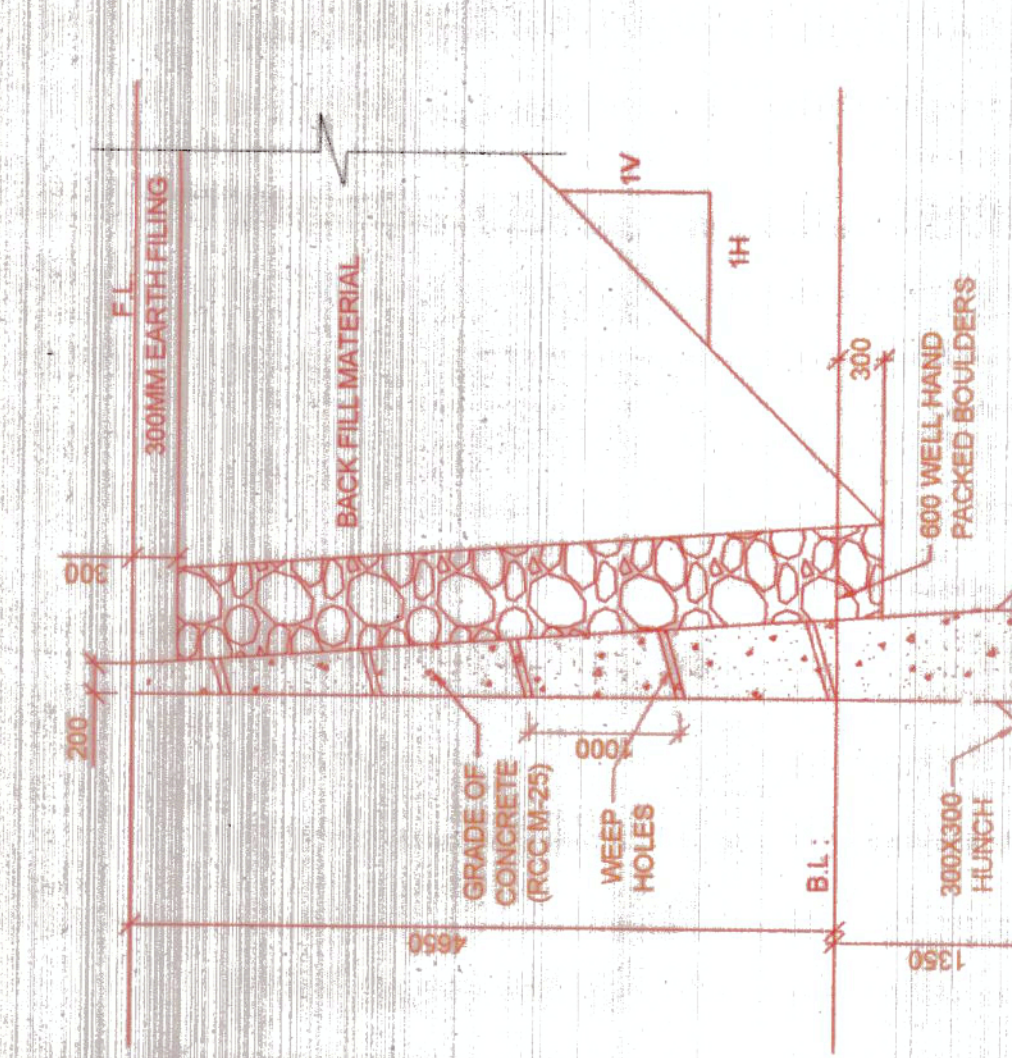
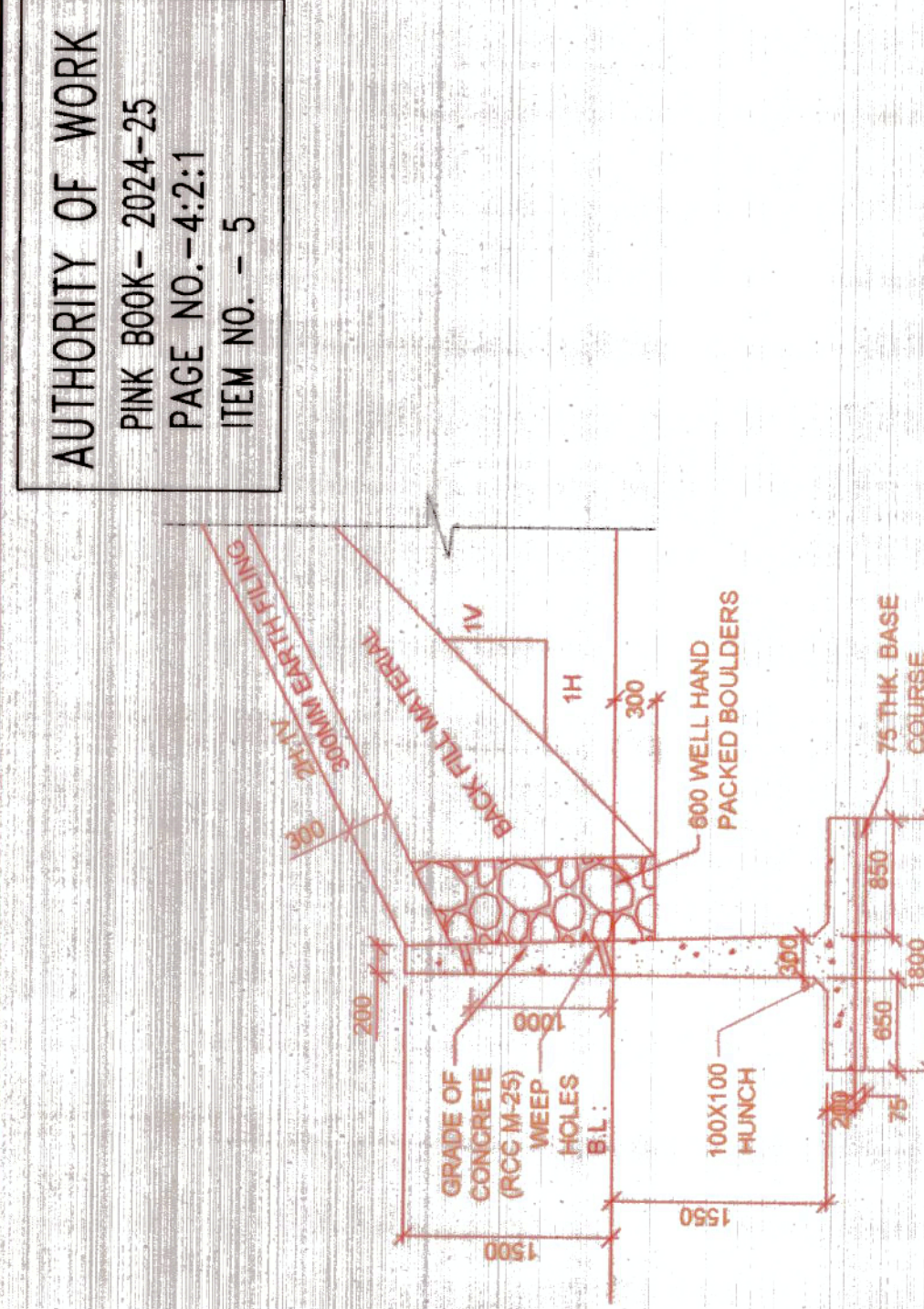
CE Plan No.

SCALE

AS SHOWN

Date: 15/05/2025

SHEET : 1/1



TRACK DETAILS

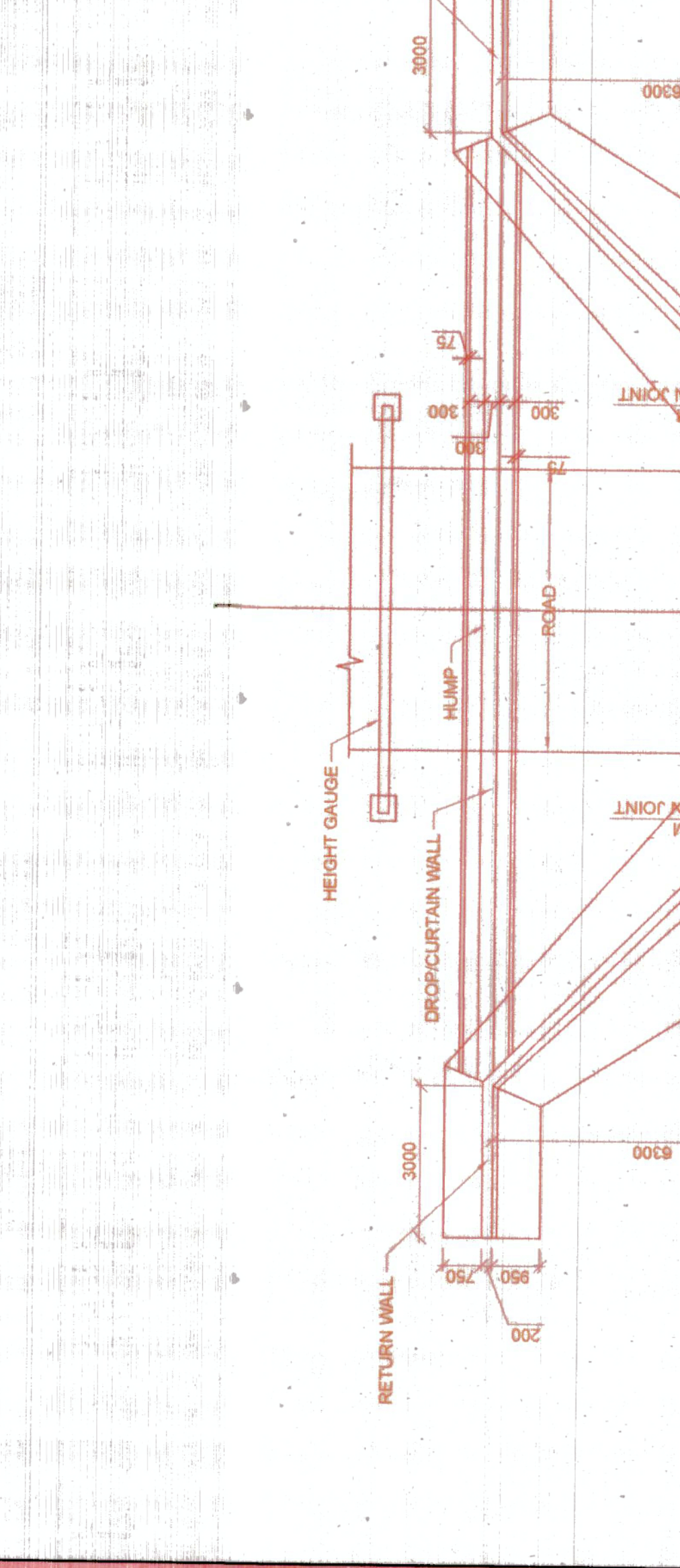
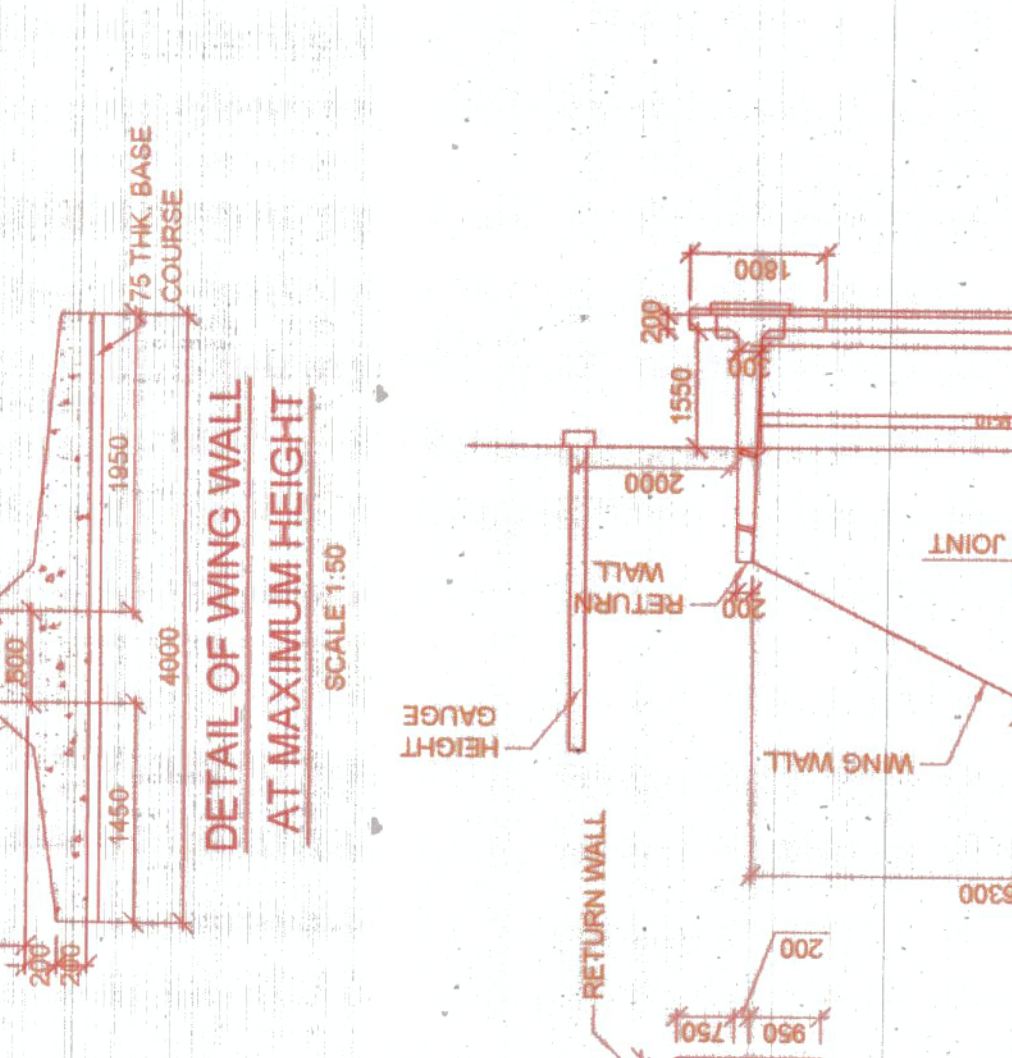
PROP. RL	112.750m
PROP. FL	111.988m
VERTICAL ALIGNMENT	1:500 R
HORIZONTAL ALIGNMENT	CURVE

CONSTRUCTION DEPTH

1) RAIL (600g)	172 mm
2) RUBBER PAD	10 mm
3) WIDER PSG SLEEPER HEIGHT AT RAIL SEAT	220 mm
4) MINIMUM BALLAST THK.	350 mm
TOTAL	762 mm

COLOR CODE LEGEND

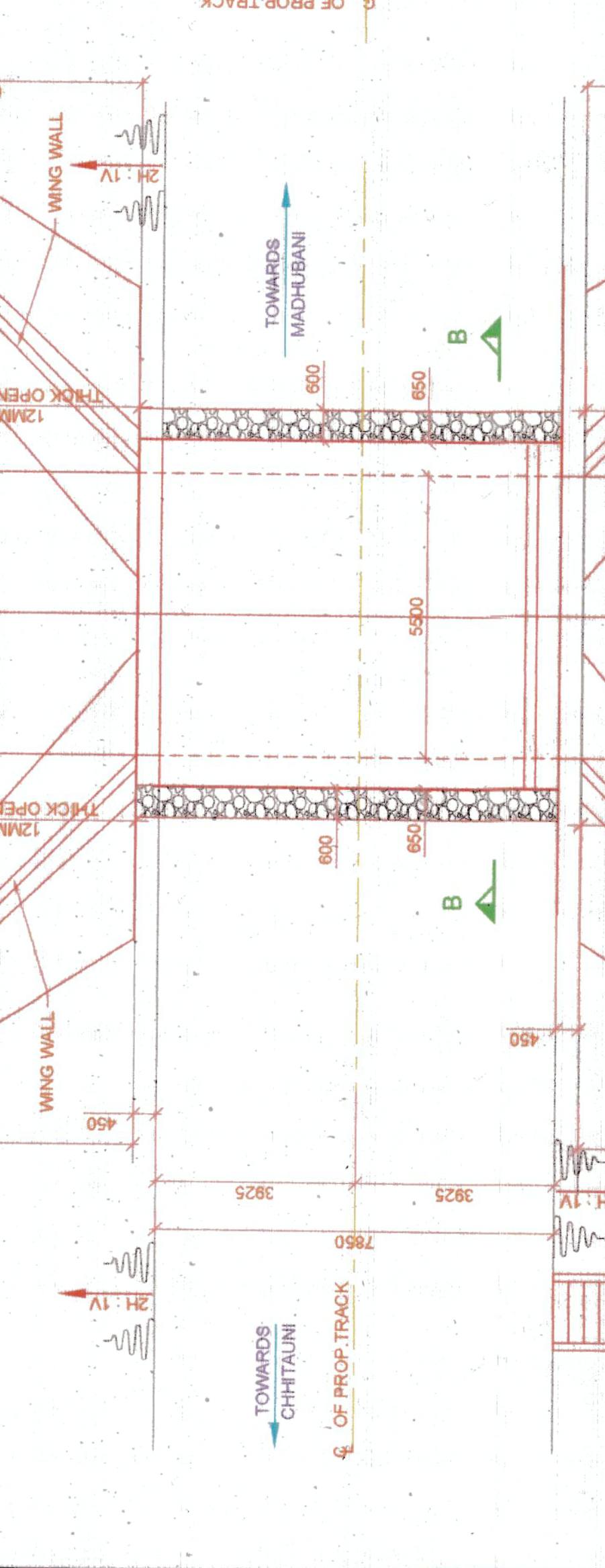
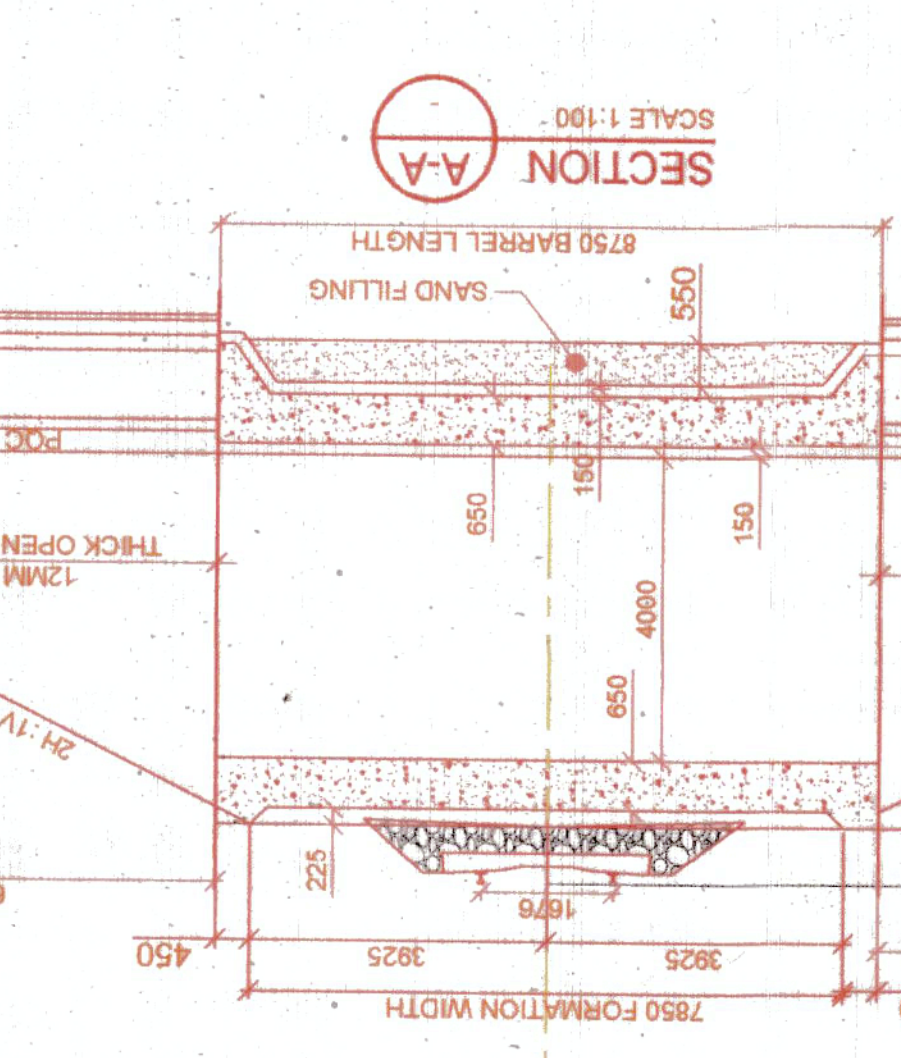
RED	PROPOSED
CONTINUOUS	VISIBLE
DOTTED	INVISIBLE
BLACK	EXISTING
	TO BE DISMANTLED



BOREHOLE PROFILE

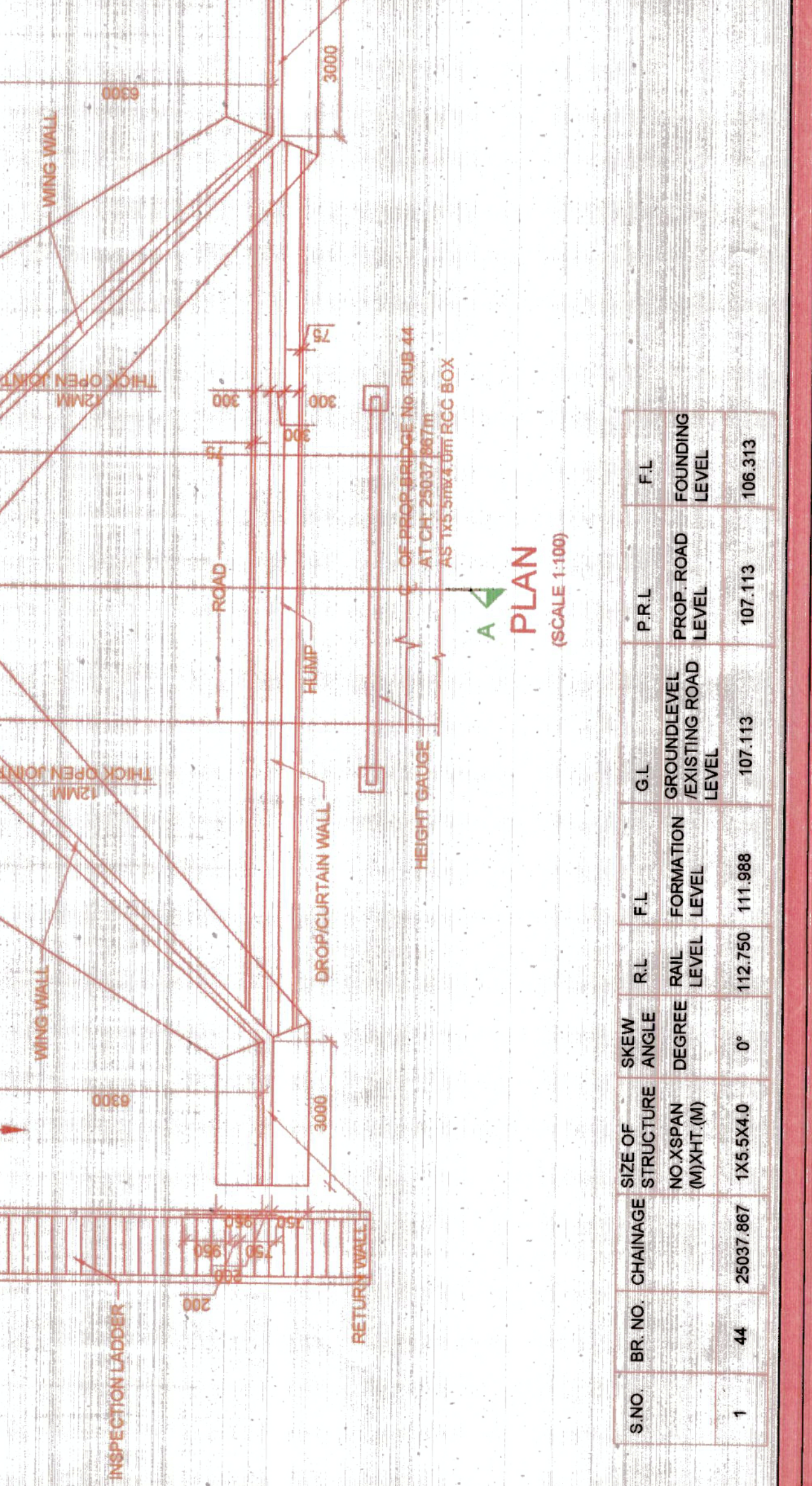
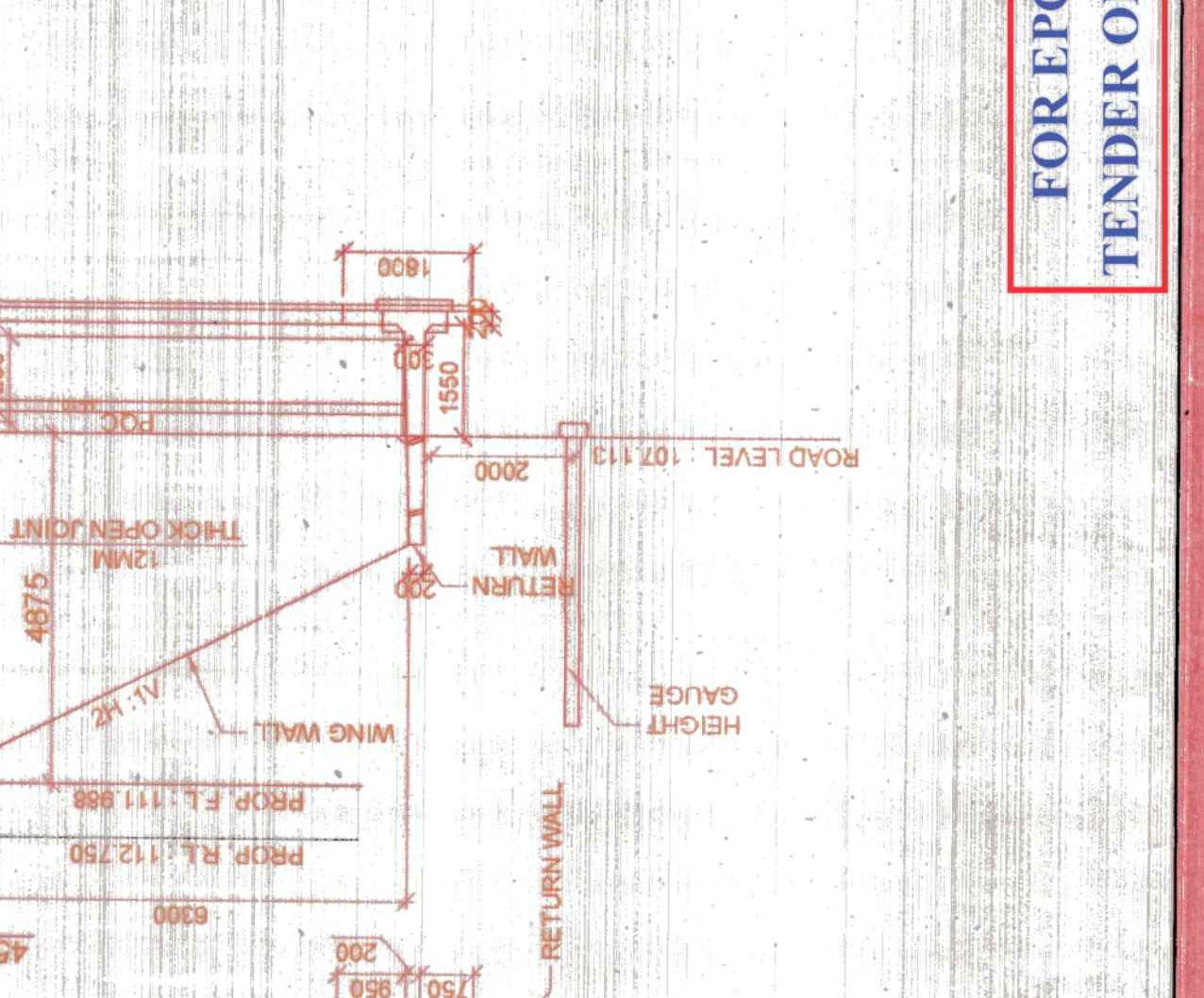
SECTION: CHITAUINI TO MADHUBANI
Bore Hole Terminated at : 10.45M.

DEPTH (M)	SPT N-VALUE	DESCRIPTION OF SOIL	IS CLASSIFICATION	CLASSIFICATION
0.00 - 0.50	11	SM	MEDIUM DENSE SILTY SAND (SM)	RL=107.113
0.50 - 0.95	11	SM	MEDIUM DENSE SILTY SAND (SM)	RL=106.313
1.50 - 1.95	13	SP	MEDIUM DENSE LITE GREY POORLY GRADED SILTY SAND (SP)	SBC=31.38kN/m ² > 13.09 kN/m ² (Safe)
3.00 - 3.45	12	SP	MEDIUM DENSE LITE GREY POORLY GRADED SILTY SAND (SP)	
4.50 - 4.95	13	SP	MEDIUM DENSE LITE GREY POORLY GRADED SILTY SAND (SP)	
6.00 - 6.45	17	SP	MEDIUM DENSE LITE GREY POORLY GRADED SILTY SAND (SP)	
7.50 - 7.95	17	SP	MEDIUM DENSE LITE GREY POORLY GRADED SILTY SAND (SP)	



PLAN (SCALE 1:100)

S.NO.	BR. NO.	CHANGAGE	SIZE OF STRUCTURE (MxHxT)	SKW ANGLE	RL	FL	GL	GROUNDLEVEL	PROP. ROAD LEVEL	F.L	FOUNDING
1	44	25037.867	1X5.5X4.0	0°	112.750	111.988	107.113	107.113	107.113	106.313	106.313



CE PLAN NO-BR/BR/CTE-TD/1149/05-2025-27-30-05-2025

FOR EPC
TENDER ONLY

BRIDGE NO.: 44
BOREHOLE NO.: 01