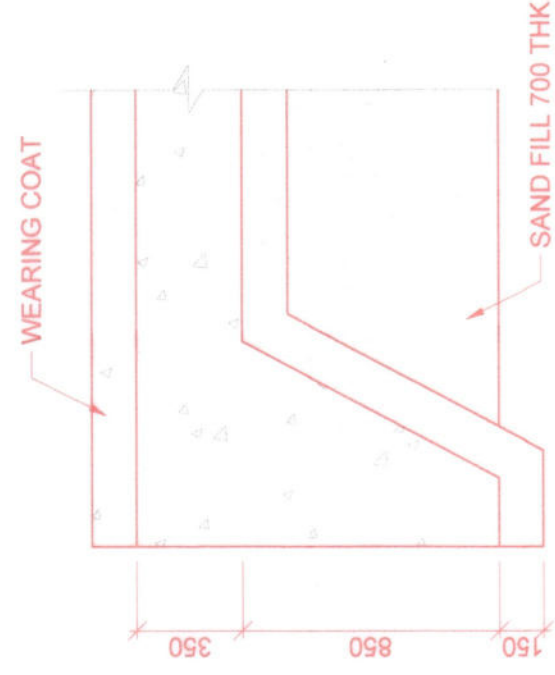


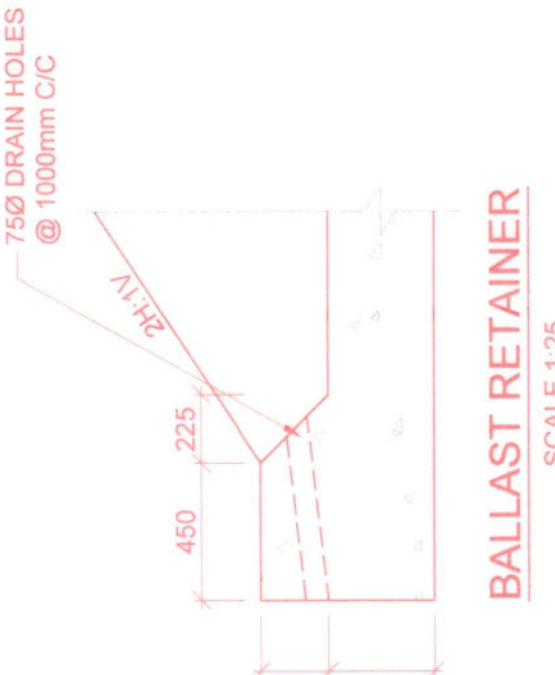
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS. LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- NO DIMENSIONS ARE TO BE SCALED FROM THE DRAWING (ONLY WRITTEN DIMENSIONS TO BE FOLLOWED).
- SITE ENGINEER SHOULD VERIFY ALL THE DIMENSIONS AND LEVELS AT SITE BEFORE EXECUTION OF WORK IN THE FIELD.
- RCC BOX AND STRUCTURE DETAILS ARE AS PER RDSO DRAWING NUMBER: RDSO/B-10152/R & RDSO/B-10152/AR
- AS A PRECAUTIONARY MEASURE PROPER DROP WALL WITH BOULDER PITCHING AND CC FLOORING WILL BE PROVIDED AS PER THIS PLAN.
- FOR MASS CONCRETE CC M-15 AND FOR RCC M-30 WILL BE USED EXCEPT OTHERWISE MENTIONED. ALL CONCRETING SHALL BE DONE CONFORMING TO IRS CONCRETE BRIDGE CODE.
- ALL REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS OF GRADE (FE-415) CONFORMING TO IS: 1786.
- THE BACKFILL BEHIND RCC BOX, WING WALL AND RETURN WALL SHOULD BE AS PER CLAUSE 7.5 OF IRS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE WITH UP TO DATE ALL CORRECTION SLIPS.
- ALL REINFORCEMENT SHALL BE PROVIDED IN THE WING WALL AND RETURN WALL ABOVE HFL AT INTERVALS OF 1000MM HORIZONTALLY AND VERTICALLY IN A STAGGERED POSITION.
- THE MAXIMUM DESIGN FOUNDATION PRESSURE IS 13.05 T/m² SITE ENGINEER SHOULD GET THE SOIL CLASSIFICATION AND BEARING CAPACITY TESTED AND APPROVAL LEVEL SHOULD BE ENSURED.
- ORDINARY PORTLAND CEMENT (OPC) GRADE 43 / 53 CONFIRMING STRENGTH SHALL BE TAKEN IN CASE OF LOWER BEARING CAPACITY OR BAD SOIL. ONLY ONE TYPE OF CEMENT AND STEEL SHALL BE USED ON A PARTICULAR BRIDGE AND BRAND OF CEMENT AND STEEL SHOULD BE APPROVED BY SITE ENGINEER.
- THE LOCATION AND PROVISION OF CONSTRUCTION JOINTS SHALL BE DECIDED BY THE SITE ENGINEER. CONSTRUCTION JOINTS SHALL BE TESTED AS PER THE RELEVANT SPECIFICATION.
- CONCRETE SHALL BE PRODUCED IN MECHANICAL MIXTURE OF CAPACITY NOT LESS THAN 200 LITERS HAVING INTEGRAL WEIGH BATCHING FACILITY AND AUTOMATIC WATER MEASURING AND DISPENSING.
- PROPER COMPACTION OF CONCRETE SHALL BE ENSURED BY USE FORM AND/OR NEEDLE VIBRATORS.
- SHARP EDGES OF CONCRETE SHALL BE CHAMFERED.
- WING/RETURN WALL AS PER CE/CON PLAN NO-B/14/02-11.
- THIS BRIDGE LIES IN SEISMIC ZONE-II.
- DROP WALL/CURTAIN WALL AS PER DESIGN.
- PROVISION OF INSPECTION STAIRCASE SHOULD BE MADE ON SITE.
- A MINIMUM DEPTH BELOW FLOOR LEVEL OF CURTAIN WALL SHOULD BE 4M ON UPSTREAM SIDE AND 2.5M ON DOWNSTREAM SIDE AS PER IRC 83 AND SHOW PROPER AND CURTAIN WALL WITH THESE DIMENSIONS.
- FLEXIBLE APPROACH THICK CONCRETE OF LOOSE STONE BOULDER WEIGHING NOT LESS THAN 40 KG SHOULD BE PROVIDED BEYOND THE CURTAIN WALL FOR A MINIMUM DISTANCE OF 30M ON UPSTREAM SIDE AND 60M ON DOWNSTREAM STREAMS AS PER IRC SP-13.

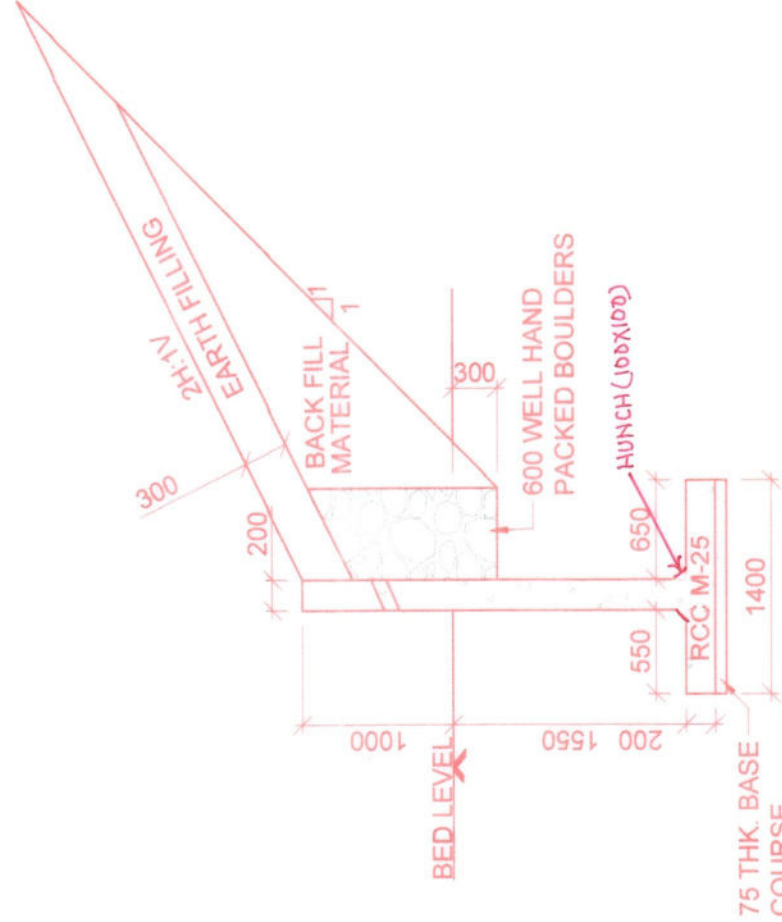
AUTHORITY OF WORK
PINK BOOK- 2024-25
PAGE NO.-42:1
ITEM NO. - 8



SHEAR KEY
SCALE 1:25



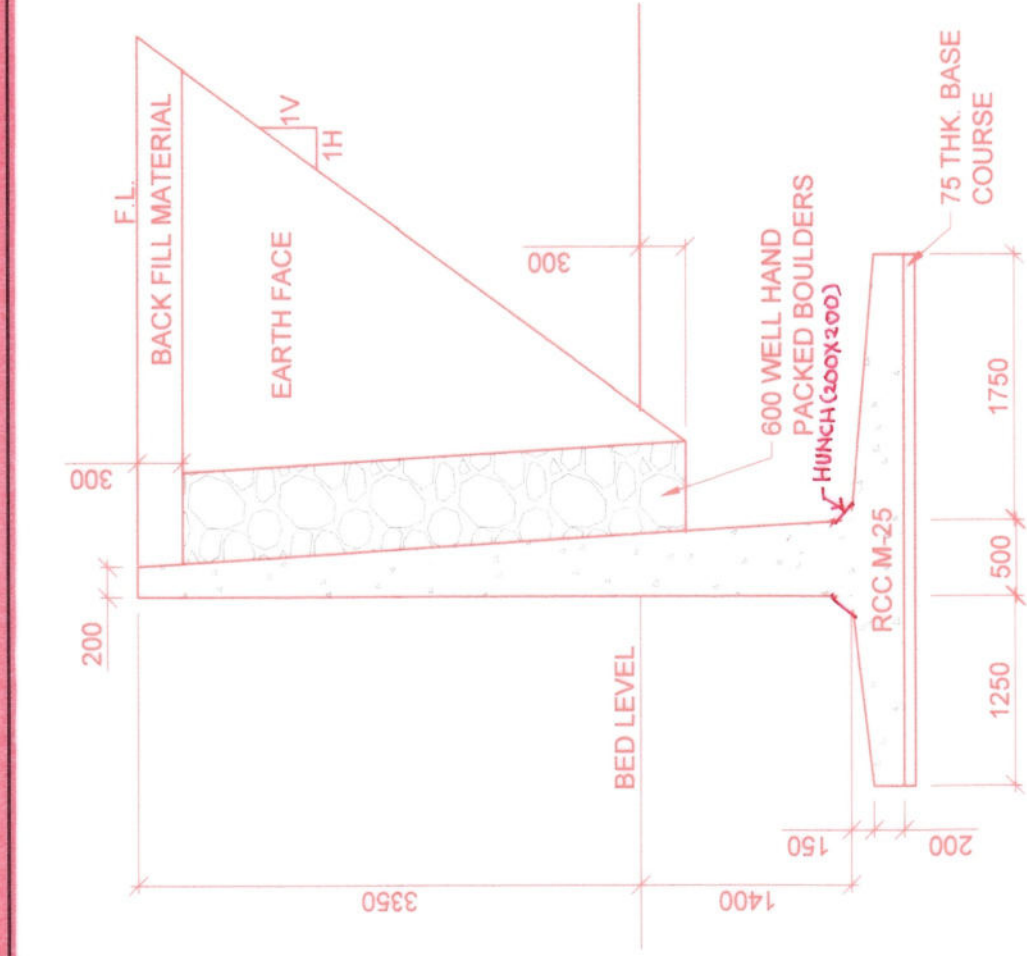
BALLAST RETAINER
SCALE 1:25



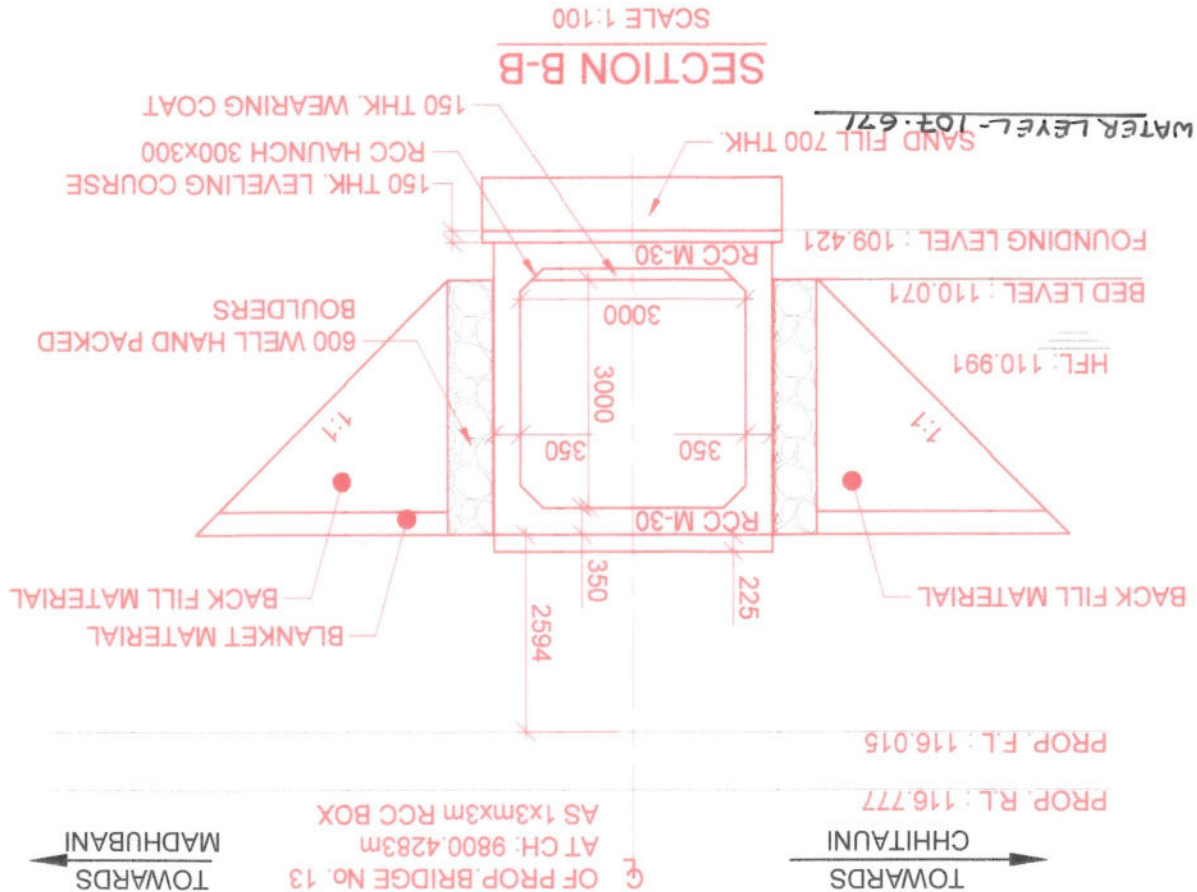
DETAIL OF RETURN WALL
SCALE 1:50

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

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



DETAIL OF WING WALL
AT MAXIMUM HEIGHT
SCALE 1:50

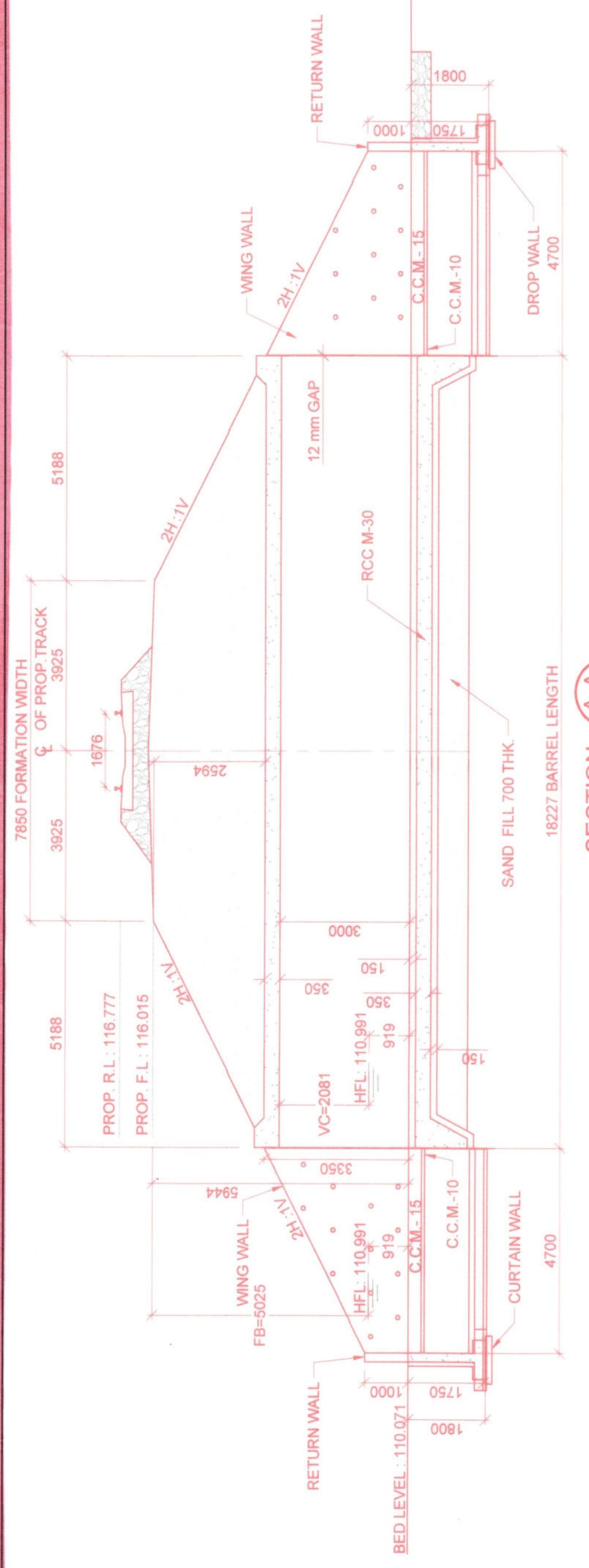


DETAIL OF RETURN WALL
AT MAXIMUM HEIGHT
SCALE 1:50

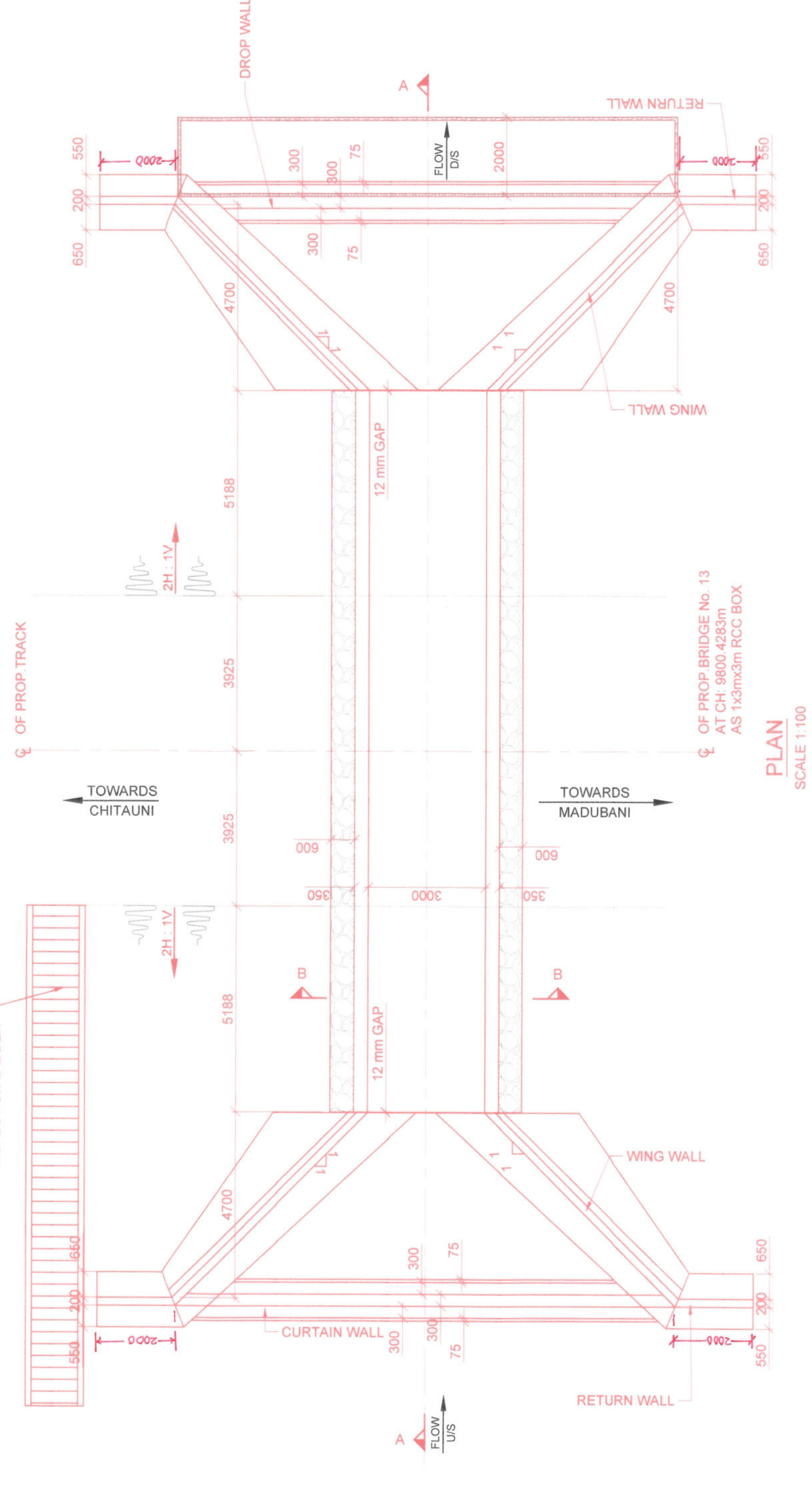
BOREHOLE PROFILE
SECTION: CHITAU NI TO MADHUBANI
Bore Hole Terminated at: 10.45M

DEPTH (M)	SPT N-VALUE	DESCRIPTION OF SOIL	ML (M)	IS CLASSIFICATION
0.00	0.50	SP	RL=110.071	
0.50	0.95		FL=109.421	
1.50	1.95		SBC=17.08 t/m ² > 13.05 t/m ² (safe)	
3.00	3.45			
4.50	4.95			
6.00	6.45			
7.50	7.95			
9.00	9.45			
10.00	10.45			

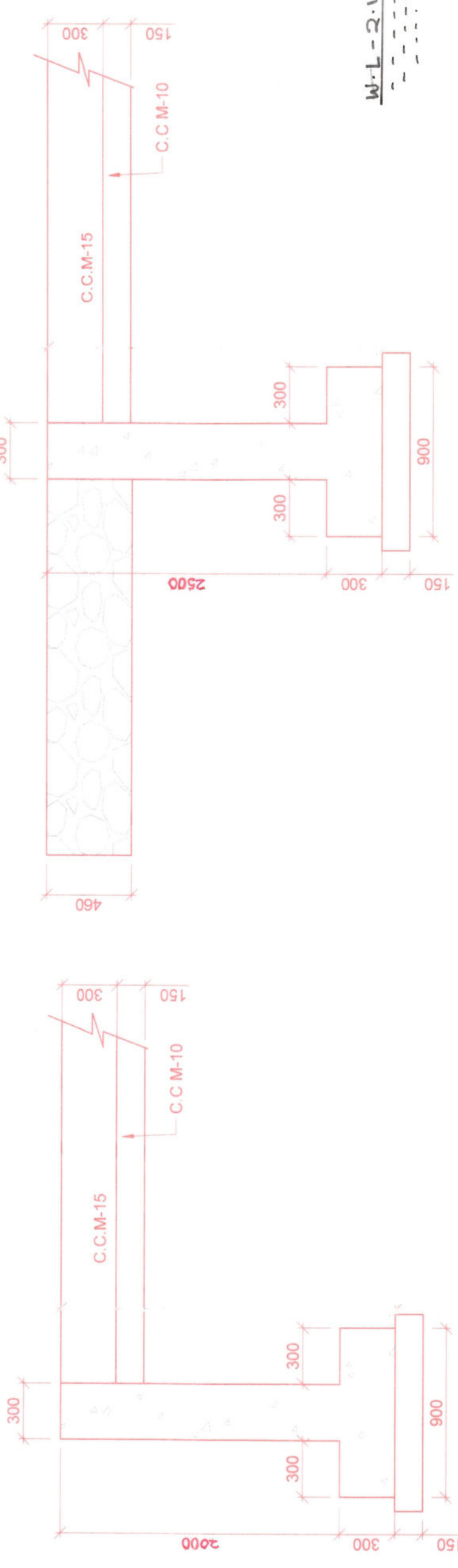
BRIDGE NO.: 13
BOREHOLE NO.: 01



SECTION A-A
SCALE 1:100



PLAN
SCALE 1:100



SECTION OF
(CURTAIN WALL)
SCALE 1:25

SECTION OF
(DROP WALL)
SCALE 1:25

HFL IN (M)	FLOOR LEVEL IN (M)	PROPOSED RAIL FORMATION LEVEL (M)	DISCHARGE IN CUMEC	VERTICAL CLEARANCE IN MM	FREE BOARD IN MM
110.990	110.071	116.015	4.71	2081	5025
				REQUIRED	REQUIRED
				PROVIDED	PROVIDED
				REQUIRED	REQUIRED
				NIL	1000

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