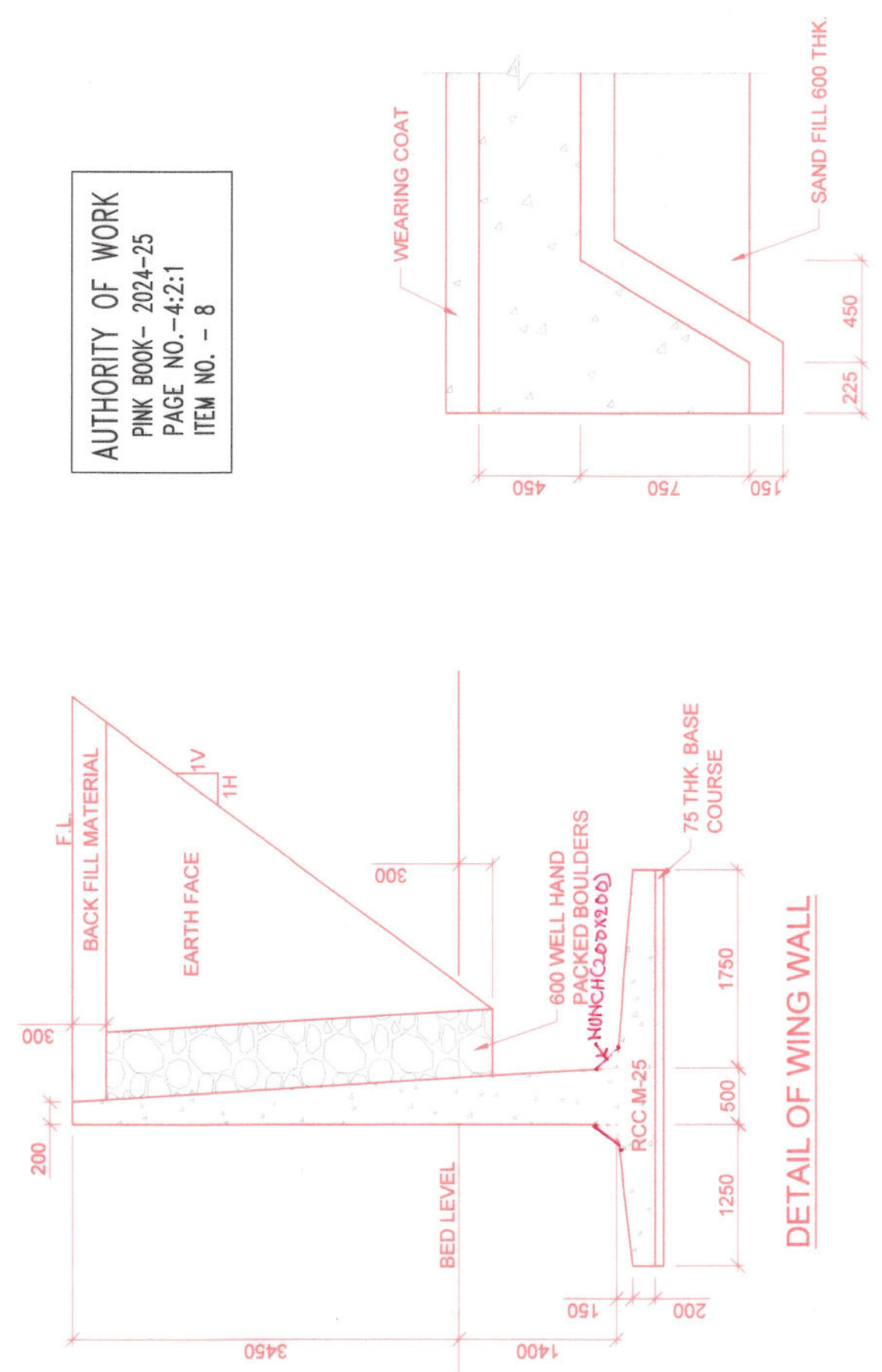


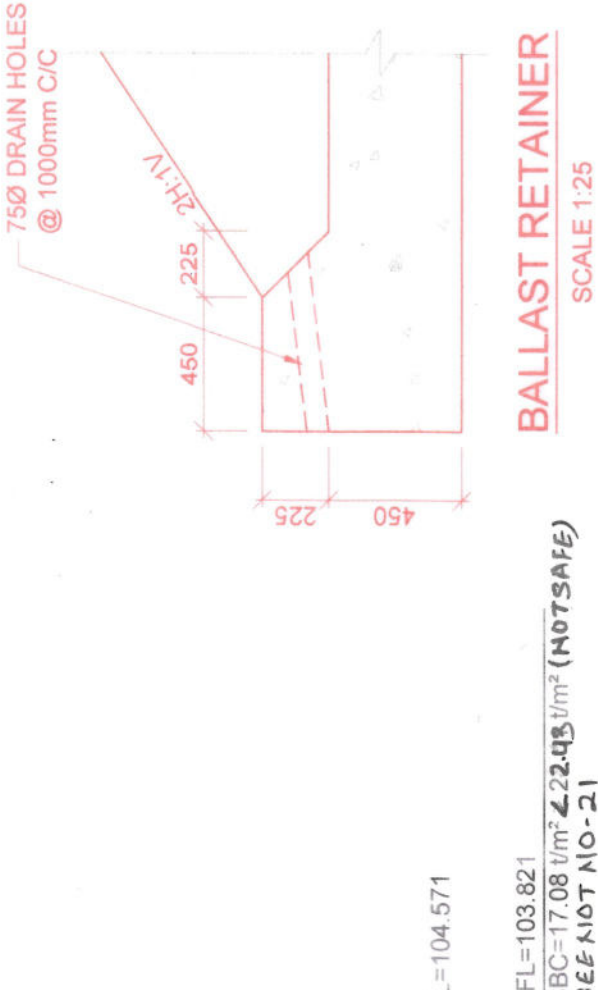
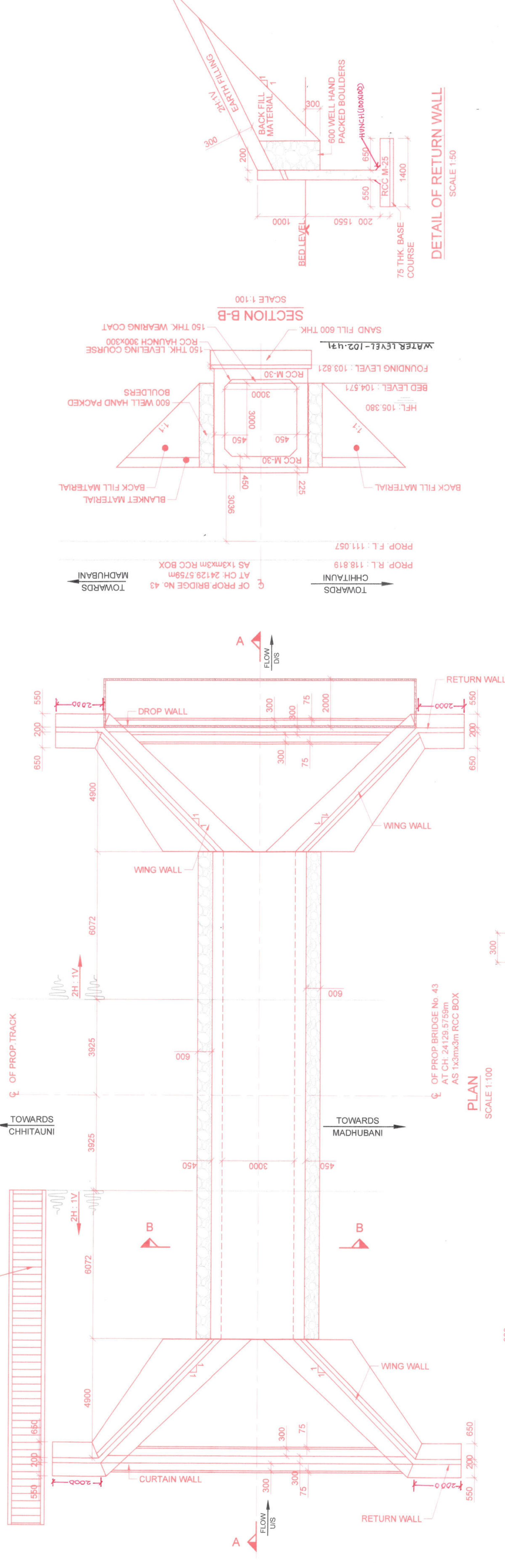
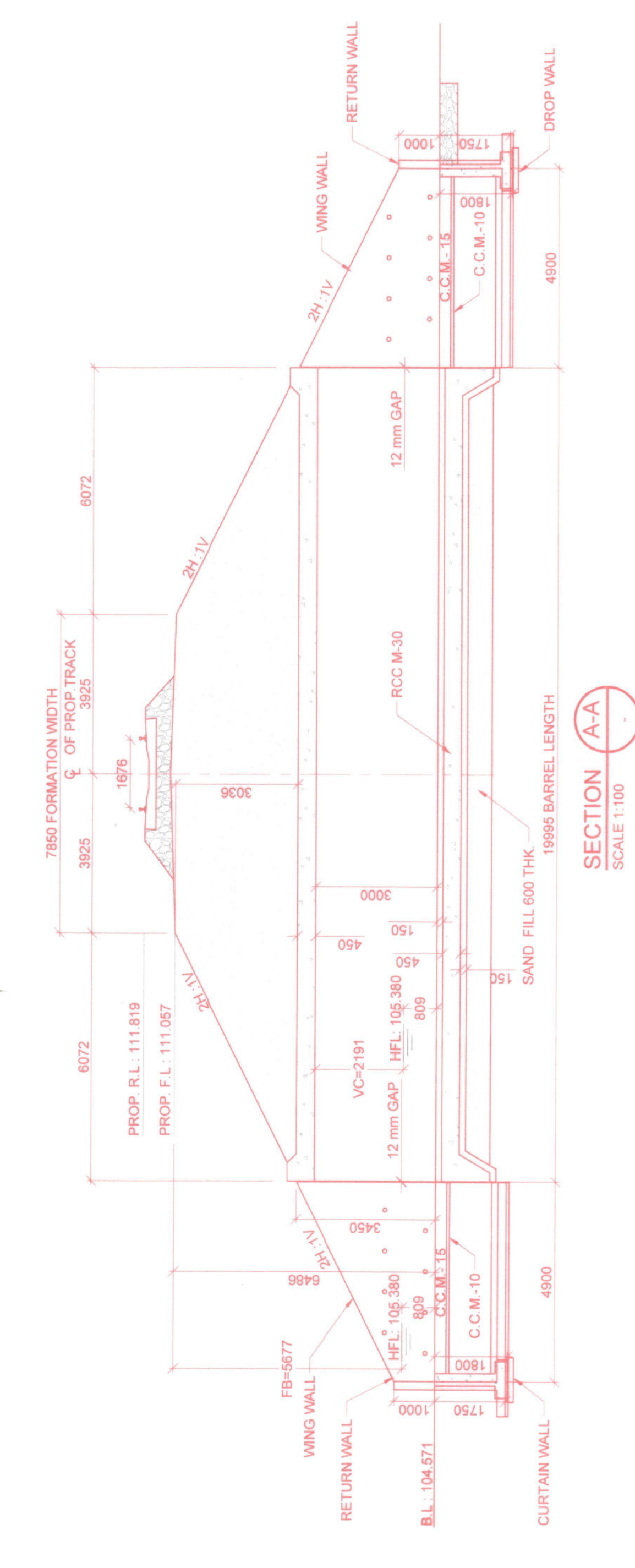
NOTES:

- 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-10155 & RDSO/B-10155/5
- 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 ITS 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 ITS BRIDGE SUB-STRUCTURE AND FOUNDATION CODE WITH PROVISION FOR DRAINAGE.
- TO PROVIDE DRAINAGE, 100MM DIA PVC PIPE 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 72.48T/m<sup>2</sup> 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 IS:811/1.S.12269 CAPABLE OF ACHIEVING THE REQUIRED DESIGNED CONCRETE 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 VIBRATORS.
- FINISHES OF CONCRETE SHALL BE CHAMFERED.
- WING/RETURN WALLS AS PER CECON PLAN NO.8/14/02.11.
- THIS BRIDGE LIES IN SEISMIC ZONE IV.
- DROP WALL CURTAIN WALL AS PER DESIGN.
- PROVISION OF INSPECTION STAIRCASE SHOULD BE MADE ON SITE.
- SOIL STABILISATION SHOULD BE DONE TO ACHIEVE REQUIRED SEC. COMPLETE AUTHORITY BEFORE WORK STARTS.
21. A MINIMUM DEPTH BELOW FLOOR LEVEL OF CURTAIN WALL SHOULD BE 1.8M ON UPSTREAM SIDE AND 2.5M ON DOWNSTREAM SIDE AS PER IRC-84 AND SHOW PROP AND CURTAIN WALL WITH THESE DIMENSIONS.
23. FLEETABLE APRON IN THICK COMPRISING OF LOOSE STONE BOULDER (WEIGHING NOT LESS THAN 40KG) SHOULD BE PROVIDED BEYOND THE CURTAIN WALLS FOR A MINIMUM DISTANCE OF 3M ON UPSTREAM SIDE AND 6M ON DOWN-STREAM AS PER IRC-SP-13.

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



SHEAR KEY  
SCALE 1:25



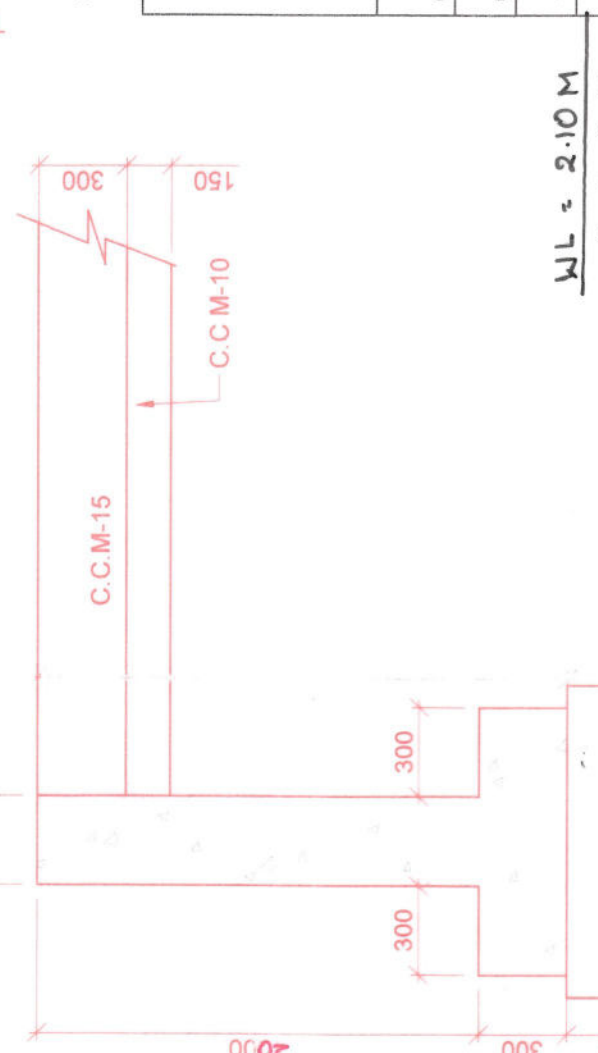
BALLAST RETAINER  
SCALE 1:25

BOREHOLE PROFILE

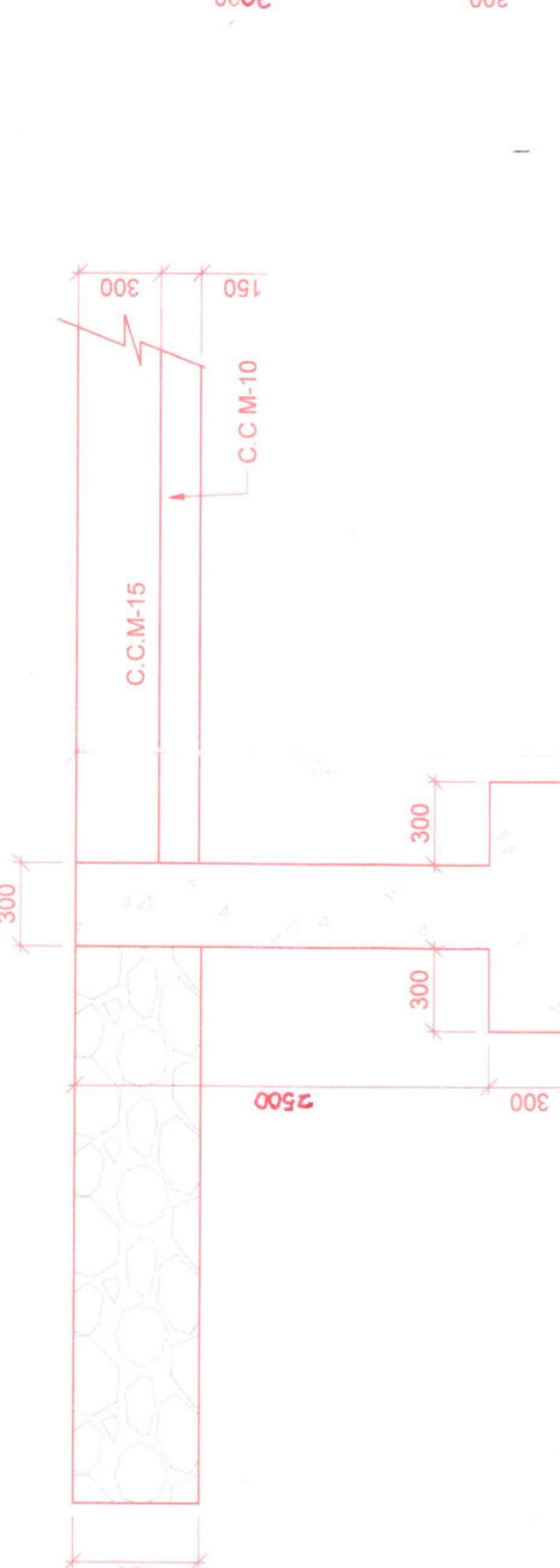
SECTION: CHITTAUNI TO MADHUBANI  
Bore Hole Terminated at: 10.45M

DEPTH (M)	SPT N-VALUE	DESCRIPTION OF SOIL	CLASSIFICATION
0.00	0.50	ML	MEDIUM DENSE LITE
0.50	0.95	13	GRAVELLY SILT
1.50	1.95	12	SP
3.00	3.45	16	SP
4.50	4.95	17	SP
6.00	6.45	17	SP
7.50	7.95	18	SP
9.00	9.45	20	SP
10.00	10.45	20	SP

FL=104.571  
RL=104.571  
SBC=17.08 T/m<sup>2</sup> (H07SAFE)  
966 NOT AIO-21



SECTION OF (CURTAIN WALL)  
SCALE 1:25



SECTION OF (DROP WALL)  
SCALE 1:25

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

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

HFL IN (M)	FLOOR LEVEL IN (M)	PROPOSED RAIL FORMATION LEVEL (M)	DISCHARGE IN CUMECs	VERTICAL CLEARANCE IN MM		FREE BOARD IN MM
				PROVIDED	REQUIRED	
105.380	104.571	111.057	3.89	2191	NIL	5677
						1000

BRIDGE NO.: 43  
BOREHOLE NO.: 01

LOADING STANDARD  
25T-AVLE LOAD-2008

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

CLIENT: NORTH EASTERN RAILWAY  
PROJECT: CHITTAUNI-TAMKUHI ROAD NEW LINE  
PART-1

TITLE: GENERAL ARRANGEMENT DRAWING FOR PROPOSED BR. NO. 43 (1X3.0MX3.0M) (MINOR) KM 241-2  
BETWEEN STATION -CHITTAUNI-MADHUBANI KM 241-2 CH-24129.5759M  
TYPE OF MAP: GENERAL ARRANGEMENT DRAWING  
FILE NO. AAA2644/STR/BR NO. 43/GAD/001

CONSULTANT  
asreece associates  
architects engineers & consultants pvt. ltd.

CE Plan No. BIC-7E-701/70/06/2025  
Date: 19/05/2025 23-6-2025  
SCALE AS SHOWN  
SHEET: 1/1

FOR EPC  
TENDER ONLY

RANJEET KUMAR SINGH  
(R.K. SINGH)  
SSE/ORG/CONCPR  
JED/DES/CONGKP  
SSE/DES/CONGKP  
(BILAL AHMAD)