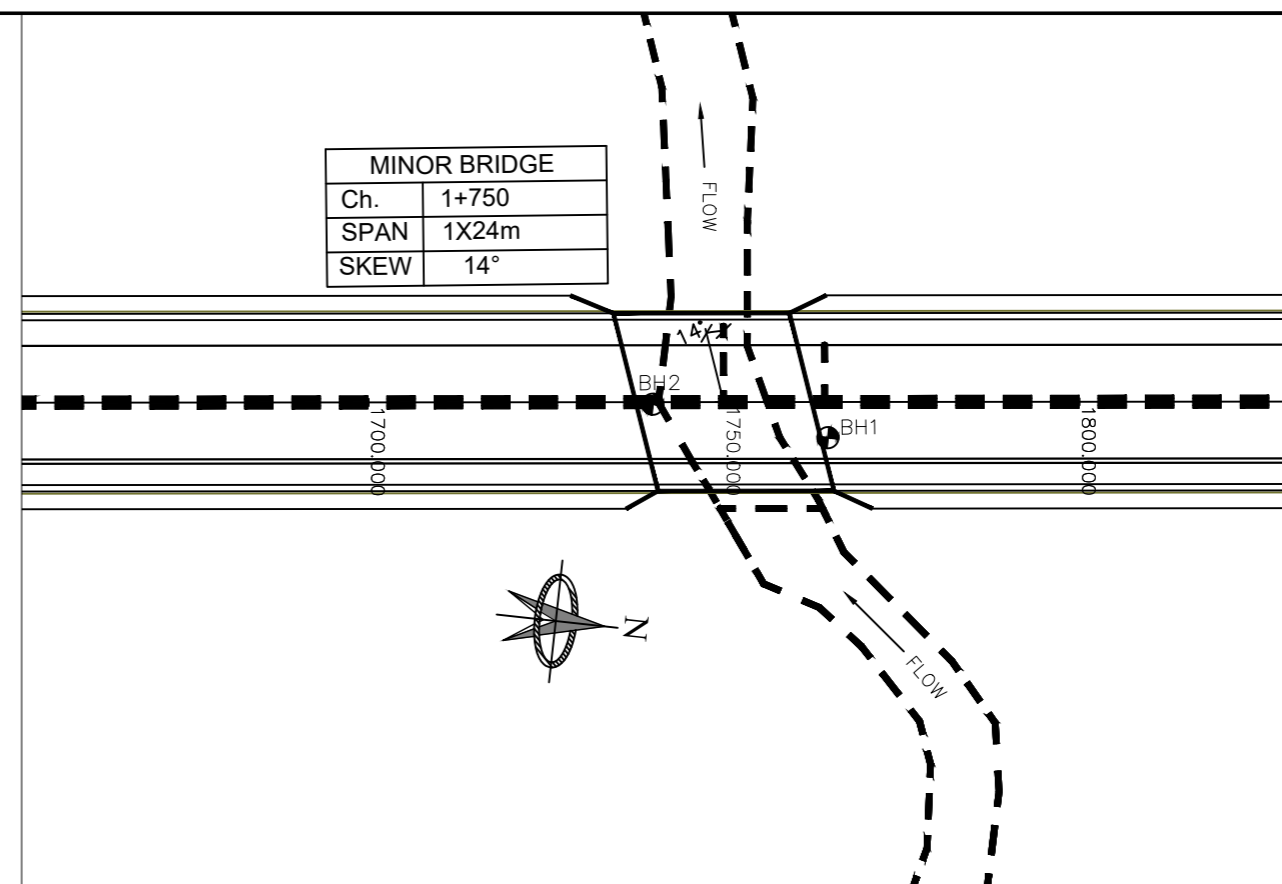


PROPOSED FRL (m)	78.732	78.794	78.856
GROUND LEVEL (m)	75.257	74.000	74.462
FOUNDING LEVEL (m)	70.000		70.000
CHAINAGE (Km)	1+737.633	1+750	1+762.368

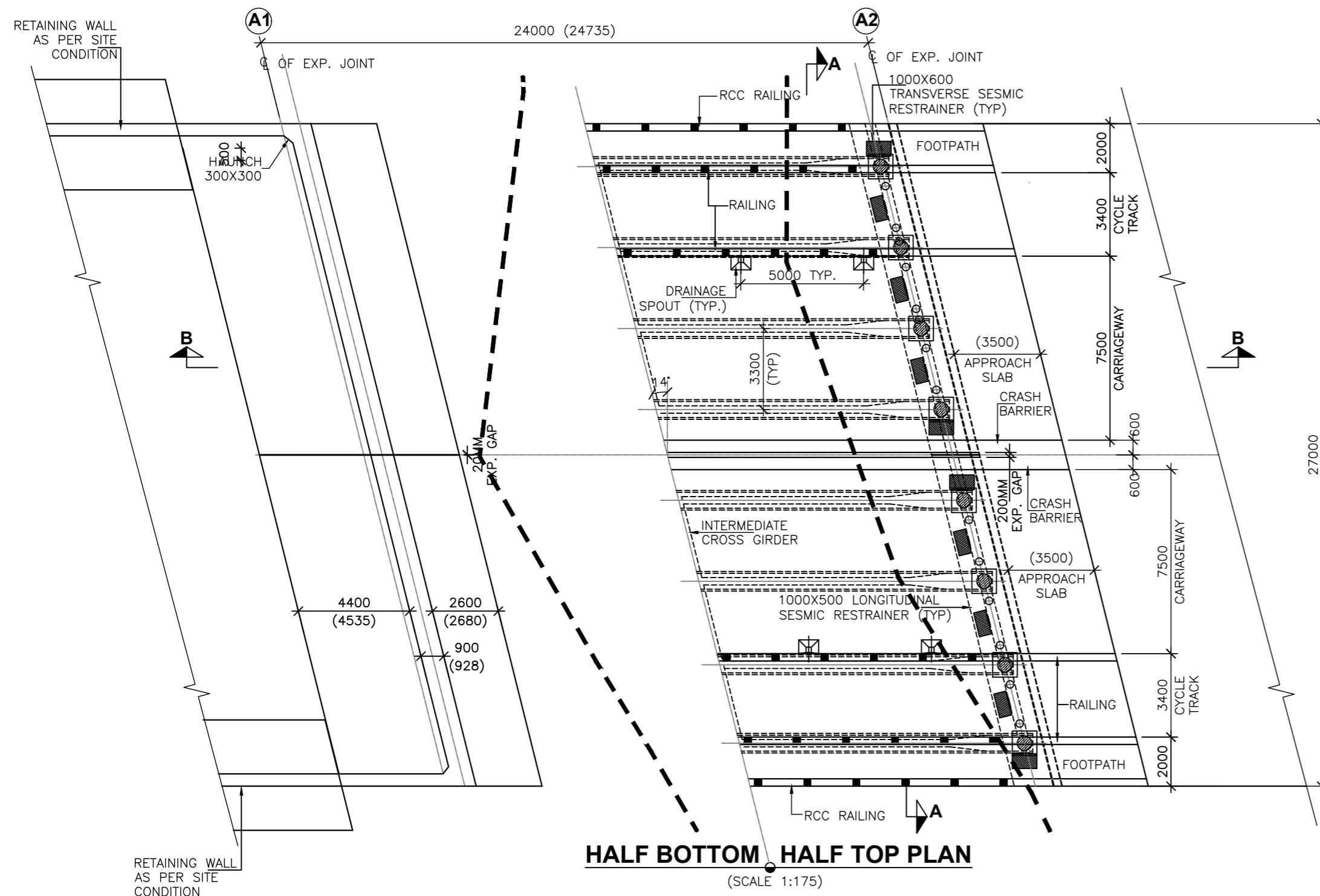
**SECTION B-B**  
(SCALE 1:175)



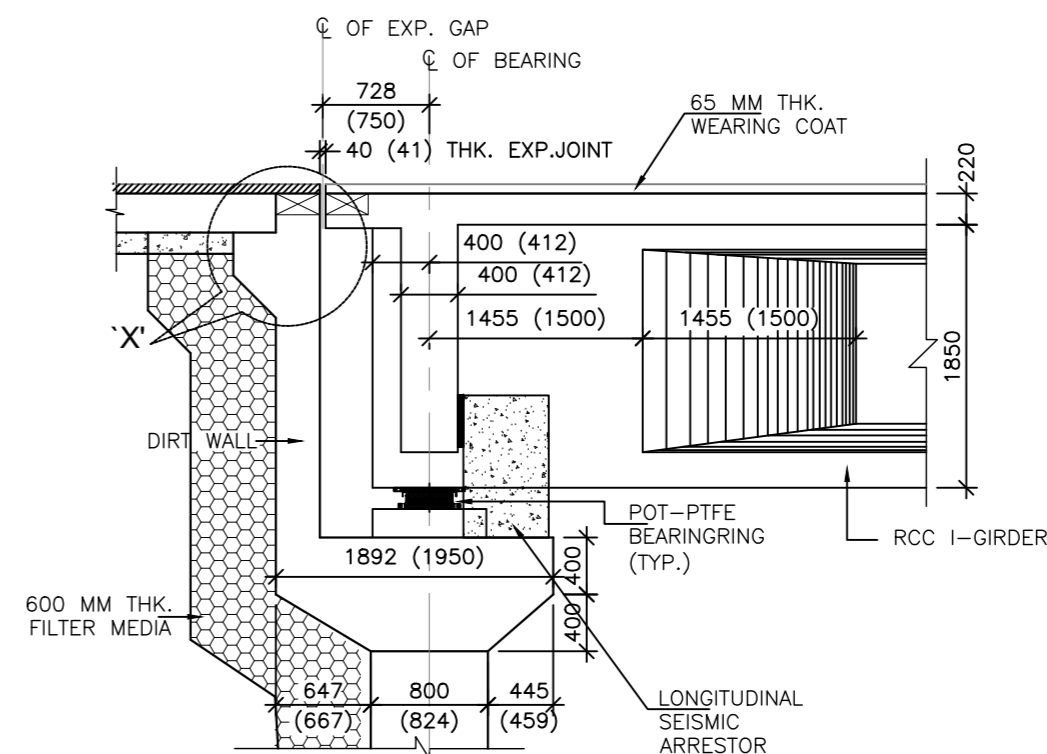
**KEY PLAN**

**CO-ORDINATES OF BORE HOLE**

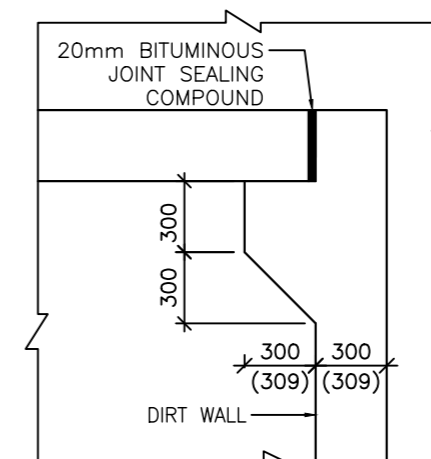
BH-1 X = 318532.0000	Y = 2032568.0000
BH-2 X = 318530.0000	Y = 2032543.0000



**HALF BOTTOM HALF TOP PLAN**  
(SCALE 1:175)



**DETAIL '1'**  
(SCALE 1:50)

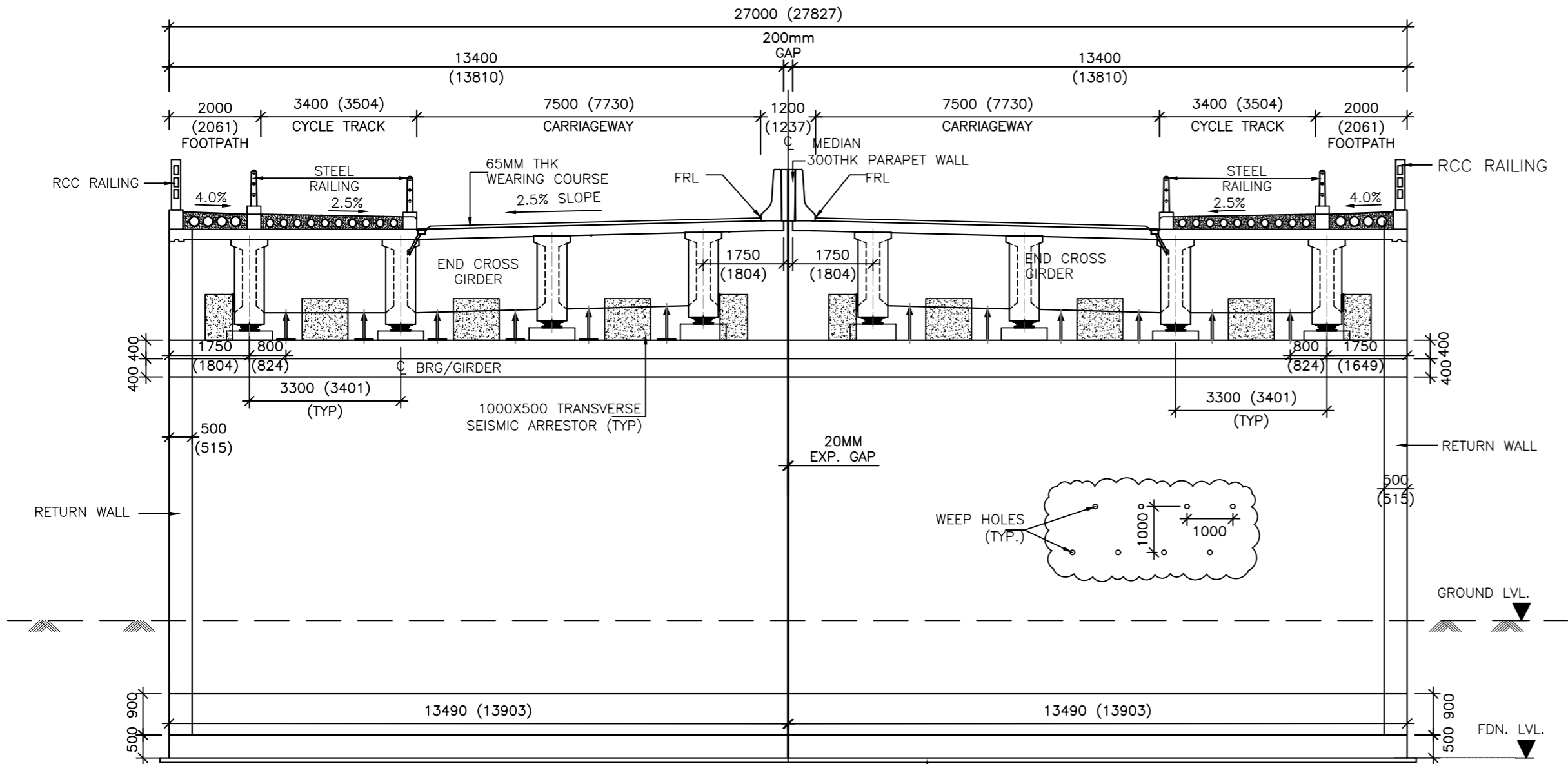


**DETAIL 'X'**  
(SCALE 1:30)

NOTE  
1. ALL DIMENSIONS ARE TO BE READ NOT TO BE MEASURED.  
2. ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE NOTED.

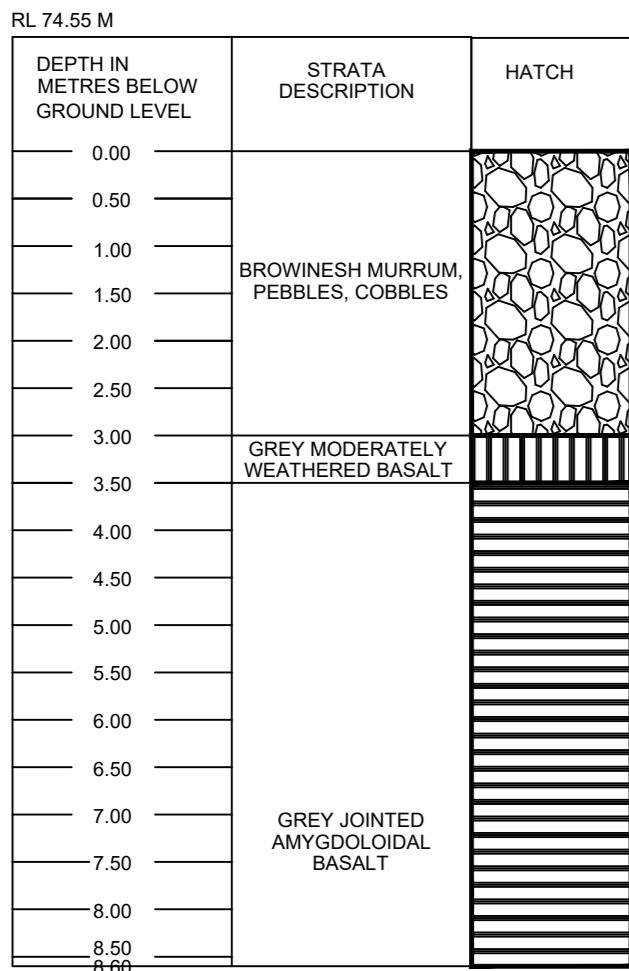
**FOR TENDER**

CLIENT <b>AURIC</b>	<b>MAHARASHTRA INDUSTRIAL TOWNSHIP LTD (MITL)</b>
PROJECT DESIGN, CONSTRUCTION, TESTING, COMMISSIONING AND OPERATION & MAINTENANCE OF INFRASTRUCTURE WORKS AT DIGHI PORT INDUSTRIAL AREA (DPIA)- PHASE 1 UNDER DELHI MUMBAI INDUSTRIAL CORRIDOR (DMIC) ON EPC BASIS	
TITLE GENERAL ARRANGEMENT DRAWING OF MINOR BRIDGE AT CH. 1+750 (BR-10 ROAD No. SAR-1)	
PROJECT CODE: DI1628 STATUS: ISSUED FOR TENDER DATE: 18.12.2024	
SHEET NO: (BH 1 OF 2) SCALE: NTS DWG SIZE: A2 REV NO: R0	
DRAWING NO:	MITL-DPIA-PKG1-RD-91

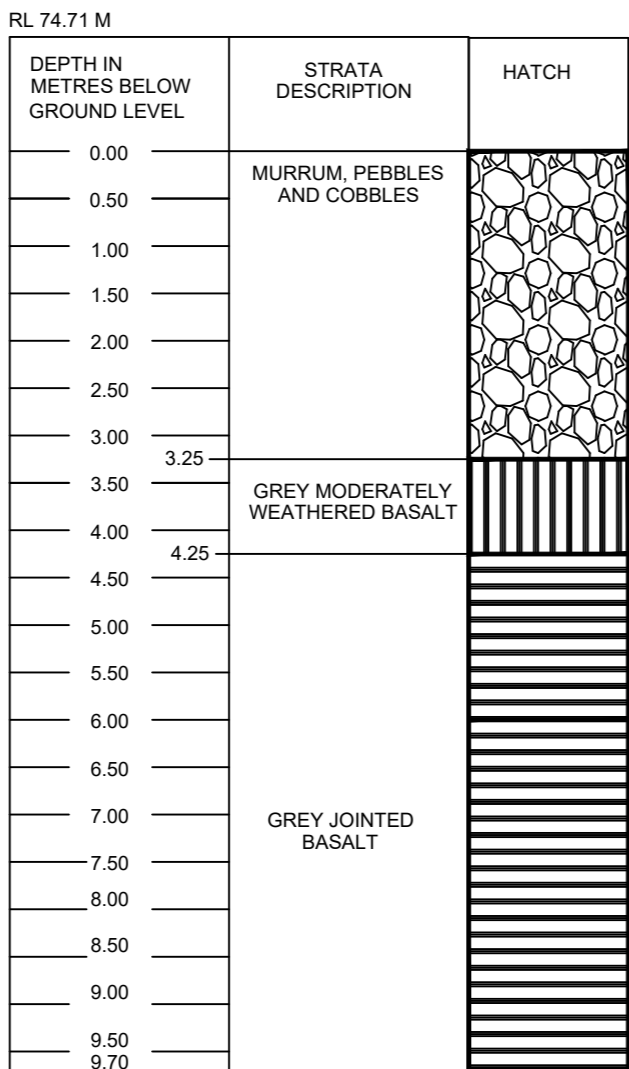


SECTION A-A

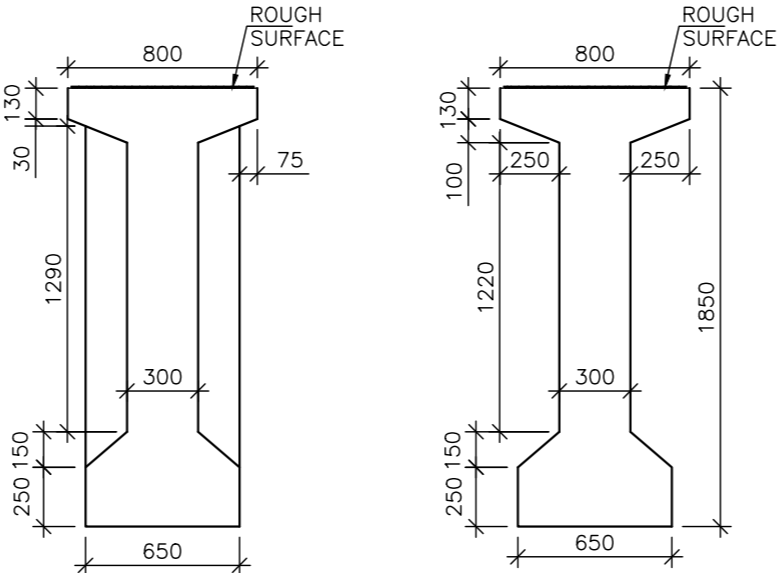
(SCALE 1:100)



BH-01

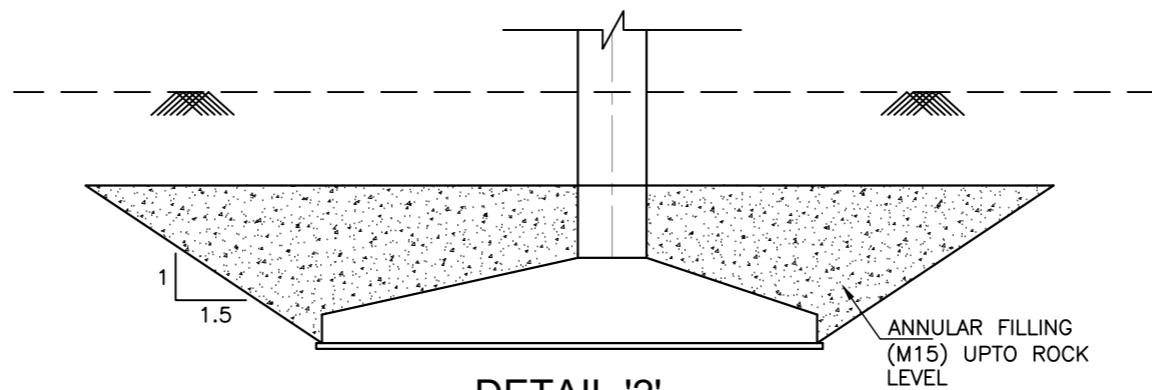


BH-02



PRECAST RCC I-GIRDER

(SCALE 1:30)



DETAIL '2'

(SCALE 1:125)

LEGEND:-

- FX - FIXED  
FR - FREE  
BRG - BEARING  
TYP - TYPICAL  
LVL - LEVEL

HYDROLOGICAL DETAILS:-

HFL	75.262 m
DISCHARGE	50.344 CUMECs
DESIGN VELOCITY	2.35 M/s
SCOUR AT ABUTMENT	ROCK LEVEL

NOTES:-

- ALL DIMENSIONS ARE IN MILLIMETERS, LEVELS ARE IN METERS UNLESS OTHERWISE MENTIONED.
- NO DIMENSION SHALL BE MEASURED FROM THE DRAWINGS. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- LOCATION OF THE STRUCTURE IS THE CHAINAGE AT THE CENTER LINE OF THE PROPOSED STRUCTURE.
- THE REINFORCEMENT SHALL BE HYSD. BARS OF (GRADE DESIGNATION Fe 500D) CONFORMING TO IS 1786-2008.
- STRUCTURE IS DESIGN FOR FOLLOWING VEHICULAR LOADS:
  - CLASS-A, ONE, TWO LANE WITH FOOTPATH + CYCLE TRACK.
  - ONE LANE OF CLASS 70R + FOOTPATH +CYCLE TRACK.
- STRIP SEAL TYPE EXPANSION JOINT SHALL BE PROVIDED OVER FULL WIDTH OF DECK.
- CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC CUBE STRENGTH FOR DIFFERENT ELEMENTS AS FOLLOWS:
  - PRECAST RCC I-GIRDER - M35
  - RCC SLAB & DIAPHRAGM - M35
  - RCC SUBSTRUCTURE & FOUNDATION - M35
  - CRASH BARRIER - M40
  - PCC LEVELING COURSE - M15
  - APPROACH SLAB - M35
  - PEDESTAL - M40
- CLEAR COVER TO OUTER STEEL SHALL BE AS FOLLOWS:-
  - SUPERSTRUCTURE - 45MM
  - FOUNDATION - 75MMSUBSTRUCTURE ABUTMENT:-
  - EARTH FACE - 75MM
  - NON EARTH FACE - 50MMRETURN WALL:-
  - EARTH FACE - 75MM
  - NON EARTH FACE - 45MM
  - CRASH BARRIER - 45MM
- CONSTRUCTION METHODOLOGY FOR SUPERSTRUCTURE SHALL BE AS UNDER:-
  - COMPLETION OF CASTING GIRDER.
  - ERECTION OF PRECAST GIRDER IN POSITION RESTING ON BEARING.
  - ERECTION OF STAGING AND SHUTTERING SUPPORTED FROM LAUNCHED GIRDER CASTING OF DECK SLAB AND CROSS DIAPHRAGM.
  - LAYING OF SIDL AFTER 30 DAYS OF CASTING OF DECK SLAB.
- BITUMINOUS CONCRETE 40mm THICK OVERLAID WITH 25mm THICK MASTIC ASPHALT SHALL BE PROVIDED AS PER SECTION 2700 OF MORTH SPECIFICATIONS.
- MINIMUM REQUIRED SOIL BEARING CAPACITY AND SBC AS PER GEOTECHNICAL REPORT AT FOUNDATION LEVEL ARE AS BELOW:-

Sr No.	LOCATION	REQUIRED SBC(t/m <sup>2</sup> )	SBC AS PER GEOTECHNICAL(t/m <sup>2</sup> )
1	ABUTMENT A1	30	50
2	ABUTMENT A2	30	50

- THE REQUIRED SBC SHALL BE ENSURE AT SITE BEFORE EXECUTION USING PLATE LOAD TEST OR CONE PENETRATION (CPT) TEST.
- THE DESIGN AND DETAILED IS CARRIED OUT WITH FOLLOWING ASSUMPTION AS PER CLAUSE 4.2 OF IRC 112-2020.
    - EXECUTION WILL BE CARRIED OUT BY PERSONAL HAVING APPROPRIATE QUALIFICATION, SKILL AND EXPERIENCE.
    - ADEQUATE SUPERVISION AND QUALITY CONTROL WILL BE PROVIDED DURING ALL STAGES OF CONSTRUCTION.
  - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT HIGHWAY DRAWING. ALL THE LEVEL, CHAINAGE, CROSS SLOPE SKEW ANGLE, SHALL BE VERIFIED FORM RELEVANT HIGHWAY DRAWING BEFORE EXECUTION.
  - EXPOSURE CONDITION IS SEVERE.
  - LAYING, COMPACTION AND EXTENT OF BACK FILL BEHIND SIDE WALL SHALL CONFIRM TO SPECIFICATION IN APPENDIX : 6 OF IRC : 78-2014.
  - THIS STRUCTURE LIES IN SEISMIC ZONE IV.
  - BACK FILLING BEHIND WALLS/ABUTMENT SHALL CONSISTS OF SELECTED EARTH CONFORMING TO APPENDIX 6 OF IRC:78-2017 HAVING PROPERTIES  $C=0$ ,  $\phi \geq 30^\circ$ ,  $\delta = 20^\circ$ ,  $\gamma_d = 2.0 t/m^3$
  - 600MM THICK FILTER MEDIA SHALL BE PROVIDED BEHIND SOLID ABUTMENT WALLS AND RETURN/RETAINING WALL.
  - ALL SOLID WALLS OF PCC/RCC/MASONRY TYPE, RETAINING THE EARTH SHALL HAVE WEEP HOLES STARTING 150MM ABOVE THE GROUND LEVEL AND SPACED 1000MM HORIZONTALLY AND VERTICALLY IN STAGGERED MANNER.
  - STRUCTURE SHOWN IN GAD ARE BASED ON PRELIMINARY DESIGN AND SAME MAY CHANGE DURING DETAIL DESIGN.
  - FOR DETAIL OF APPROACH SLAB, DRAINAGE SYSTEM, CRASH BARRIER, RETAINING WALL ETC. REFER SEPARATE DRAWING.

NOTE

- ALL DIMENSIONS ARE TO BE READ NOT TO BE MEASURED.
- ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE NOTED.

FOR TENDER

CLIENT



MAHARASHTRA INDUSTRIAL  
TOWNSHIP LTD (MITL)

PROJECT

DESIGN, CONSTRUCTION, TESTING, COMMISSIONING  
AND OPERATION & MAINTENANCE OF INFRASTRUCTURE  
WORKS AT DIGHI PORT INDUSTRIAL AREA (DPIA)- PHASE  
1 UNDER DELHI MUMBAI INDUSTRIAL CORRIDOR (DMIC)  
ON EPC BASIS

TITLE

GENERAL ARRANGEMENT  
DRAWING OF MINOR BRIDGE AT  
CH. 1+750 (BR-10 ROAD No. SAR-1)

PROJECT CODE: DI1628 STATUS: ISSUED FOR TENDER DATE: 18.12.2024

SHEET NO: (BH 2 OF 2) SCALE: NTS DWG SIZE: A2 REV NO: R0

DRAWING NO:

MITL-DPIA-PKG1-RD-91