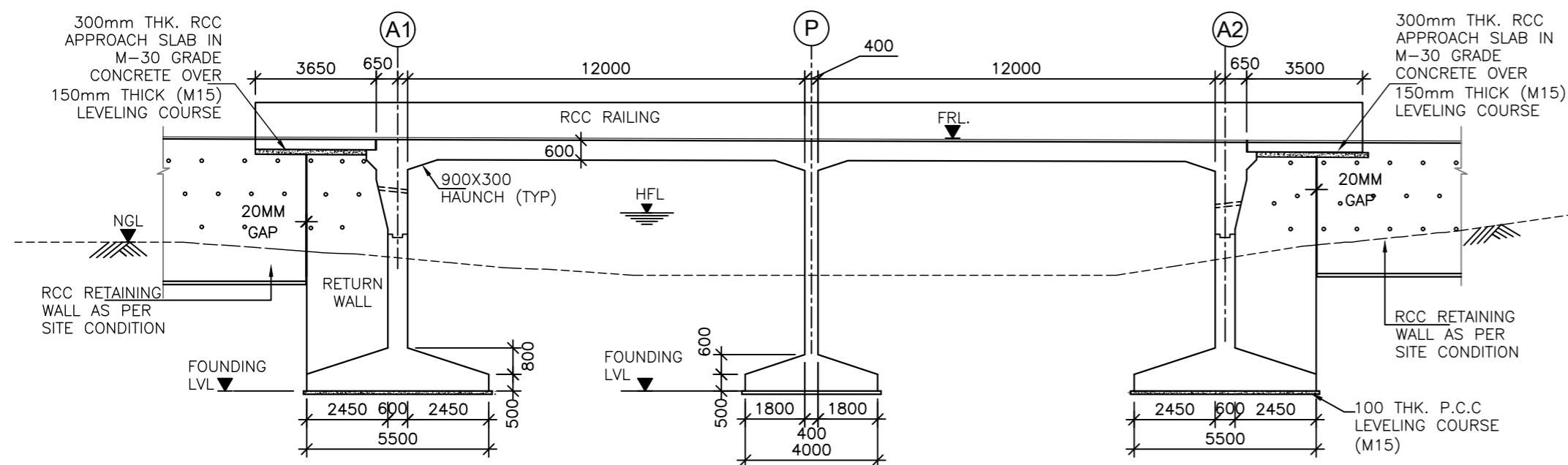


KEY PLAN
(SCALE 1:1000)

NOTE
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2. ALL DIMENSIONS ARE IN METER UNLESS OTHERWISE NOTED.

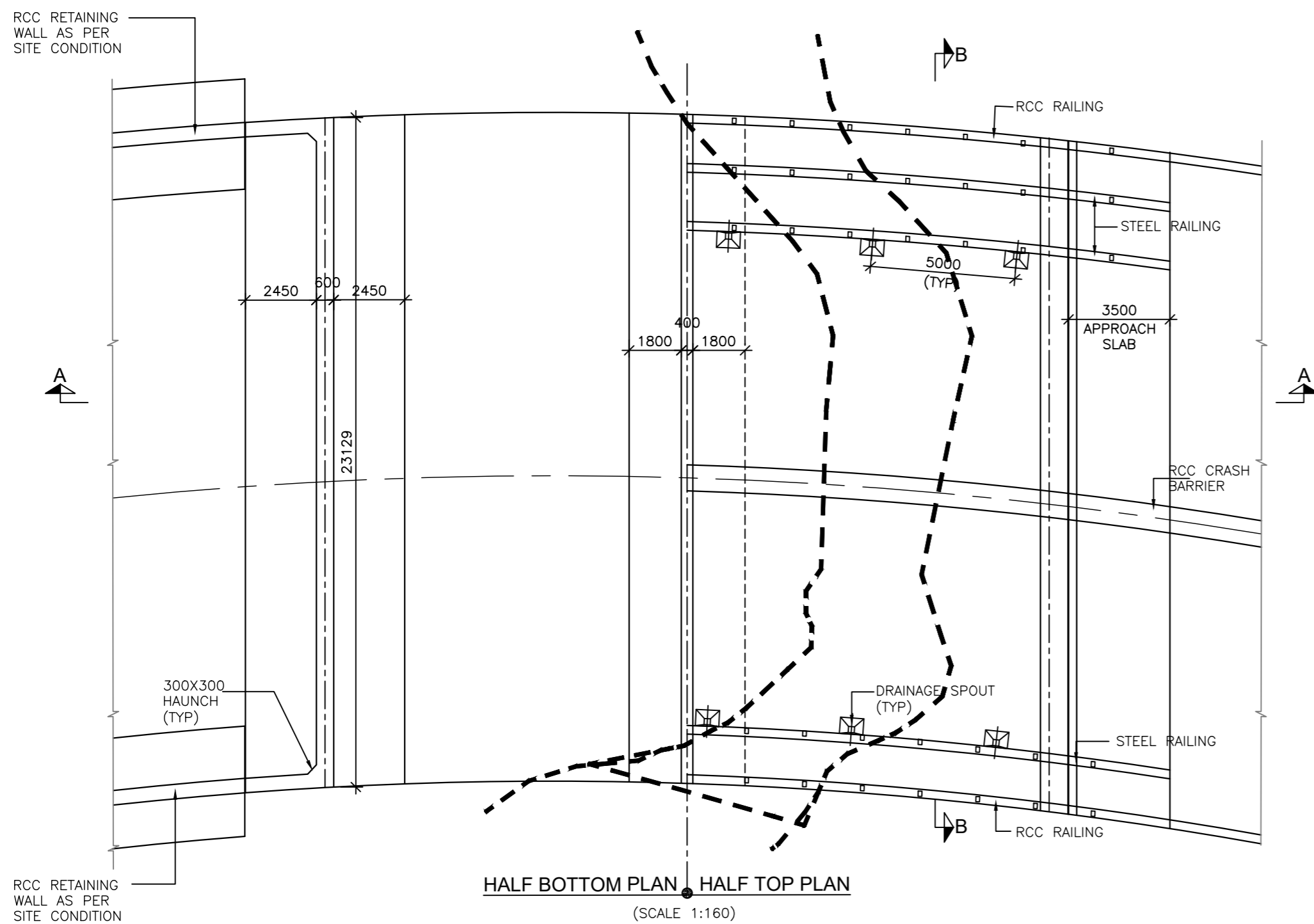
FOR TENDER

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 CHAINAGE 0+229 (BR-32) ROAD NO.-CR-10			
PROJECT CODE: DI1628 STATUS: ISSUED FOR TENDER DATE: 18.12.2024			
SHEET NO: (Bk. 1 of 3)	SCALE: NTS	DWG SIZE: A2	REV NO: R0
DRAWING NO: MITL-DPIA-PKG1-RD-100			



FORMATION LEVEL (MCW) (M)	104.111	104.124	104.170
GROUND LEVEL (GR. LVL.)	100.504	100.000	100.473
FOUNDING LEVEL	96.000	96.000	96.000
SUPERELEVATION (%)	-2.5%	-2.5%	-2.5%
CHAINAGE (KM)	0+216.800	0+229	0+241.200

ELEVATION
(SCALE 1:160)



HALF BOTTOM PLAN HALF TOP PLAN
(SCALE 1:160)

HYDROLOGICAL DETAILS:-

DISCHARGE	41.357 CUMecs
HFL	100.978 m
DESIGN VELOCITY	3.36 M/s
MSL	ROCK LEVEL

NOTES:-

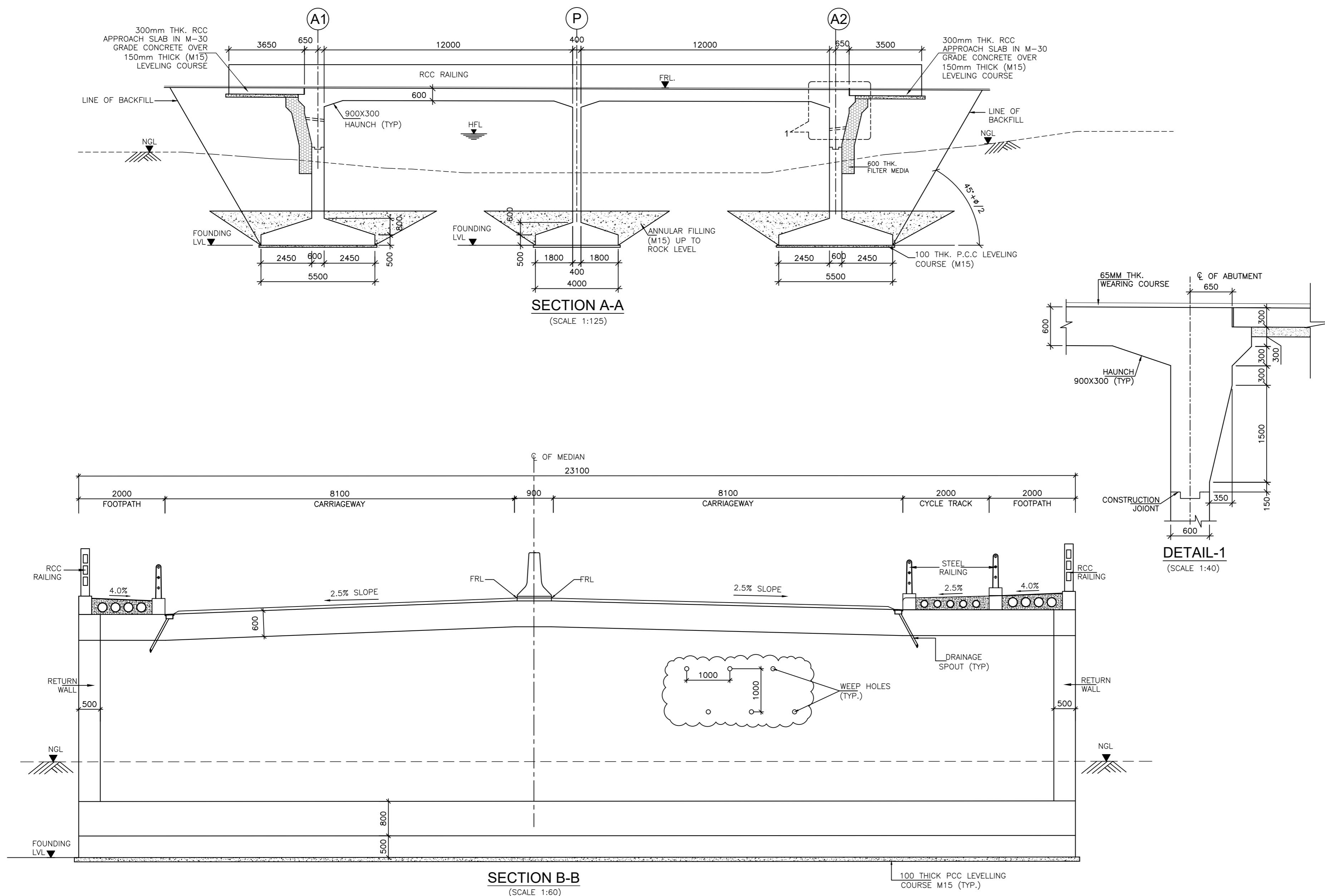
- ALL DIMENSIONS ARE IN MILLIMETERS, LEVELS ARE IN METERS UNLESS OTHERWISE MENTIONED.
- NO DIMENSION SHALL BE MEASURED FROM THE DRAWINGS. ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
- LOCATION OF THE STRUCTURE IS THE CHAINAGE AT THE CENTER LINE OF THE PROPOSED STRUCTURE.
- THE REINFORCEMENT SHALL BE HYSD. BARS OF (GRADE DESIGNATION Fe 500D) CONFORMING TO IS 1786-2008.
- THE PROPOSED STRUCTURE IS DESIGN FOR FOLLOWING VEHICULAR LOADS FOR MAIN CARRIAGEWAY:
 - CLASS-A, ONE AND TWO LANE WITH FOOTPATH + CYCLE TRACK FOR EACH CARRIAGEWAY.
 - ONE LANE OF CLASS 70R + FOOTPATH +CYCLE TRACK FOR EACH CARRIAGEWAY
- 20mm FILLER TYPE EXPANSION JOINT SHALL BE PROVIDED AS PER MORT&H SPECIFICATION.
- CONCRETE SHALL BE DESIGN MIX WITH A MINIMUM 28 DAYS CHARACTERISTIC CUBE STRENGTH FOR DIFFERENT ELEMENTS AS FOLLOWS:
 - SUPERSTRUCTURE - M35
 - SUBSTRUCTURE & FOUNDING - M35
 - CRASH BARRIER - M40
 - PCC LEVELING COURSE - M15
 - APPROACH SLAB - M30
 - RETURN WALL - M35
- CLEAR COVER TO OUTER STEEL SHALL BE AS FOLLOWS:-
 - SUPERSTRUCTURE - 45MM
 - FOUNDING - 75MMSUBSTRUCTURE ABUTMENT:-
 - EARTH FACE - 75MM
 - NON EARTH FACE - 50MMRETURN WALL:-
 - EARTH FACE - 75MM
 - NON EARTH FACE - 45MM
 - CRASH BARRIER - 45MM
- EXPOSURE CONDITION IS SEVER.
- CONSTRUCTION METHODOLOGY FOR SUPERSTRUCTURE SHALL BE AS UNDER:-
 - COMPLETION OF CASTING OF CAST-IN-SITU FOUNDING & SIDE WALL OF STRUCTURE.
 - CONSTRUCTION OF CAST-IN-SITU RCC SLAB.
 - CASTING OF CRASH BEAMS AND LAYING WEARING COAT AFTER 30DAYS OF CASTING OF DECK.
- BITUMINOUS CONCRETE 40mm THICK OVERLAID WITH 25mm THICK MASTIC ASPHALT SHALL BE PROVIDED AS PER SECTION 2700 OF MORT&H SPECIFICATIONS.
- 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.
- 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.
- BACK FILLING BEHIND WALLS/ABUTMENT SHALL CONSISTS OF SELECTED EARTH CONFORMING TO APPENDIX 6 OF IRC:78-2017 HAVING PROPERTIES $C=0$, $\phi>=30^\circ$, $\delta=20^\circ$, $y_d=2.0t/m^3$
- 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.
- REQUIRED BEARING CAPACITY OF STRUCTURE AT FOUNDING LEVEL IS 30.0 t/m². HOWEVER SBC AS PER GEOTECHNICAL REPORT IS 50t/m² AT FOUNDING LEVEL. THE REQUIRED SBC SHALL BE VERIFIED AT SITE BEFORE EXECUTION USING PLATE LOAD TEST OR CONE PENETRATION (CPT) TEST.
- FOR DETAIL OF APPROACH SLAB, DRAINAGE SYSTEM, CRASH BARRIER, RETAINING WALL ETC. REFER SEPARATE DRAWING.
- STRUCTURE DIMENSIONS SHOWN IN GAD ARE BASED ON PRELIMINARY DESIGN AND MAY CHANGE DURING DETAIL DESIGN.
- ANNUAL FILLING ABOVE FOUNDING SHALL BE FILLED WITH M-15 GRADE CONCRETE UPTO ROCK LEVEL. IF THE DEPTH OF FILL REQUIRED IS MORE THAN 1.5 M IN SOFT ROCK OR 0.6 M IN HARD ROCK ABOVE THE FOUNDING LEVEL, THEN CONCRETE MAY BE FILLED UPTO THIS LEVEL BY M 15 CONCRETE AND PORTION ABOVE MAY BE FILLED BY CONCRETE OR BY BOULDERS GROUTED WITH CEMENT.

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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			
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PROJECT CODE: DI1628 STATUS: ISSUED FOR TENDER DATE: 18.12.2024			
SHEET NO: (Bk 2 OF 3)	SCALE: NTS	DWG SIZE: A2	REV NO: R0
DRAWING NO: MITL-DPIA-PKG1-RD-100			

NOTE

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**FOR TENDER**

**MAHARASHTRA INDUSTRIES
TOWNSHIP LTD (MITL)**

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
CHAINAGE 0+229 (BR-32) ROAD NO.-CR.

PROJECT CODE: DI1628	STATUS: ISSUED FOR TENDER	DATE: 18.12.2024
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SHEET NO: (SH. 3 OF 3) SCALE: NTS DWG SIZE: A2 REV NO: R0

MITL-DPIA-PKG1-RD-100