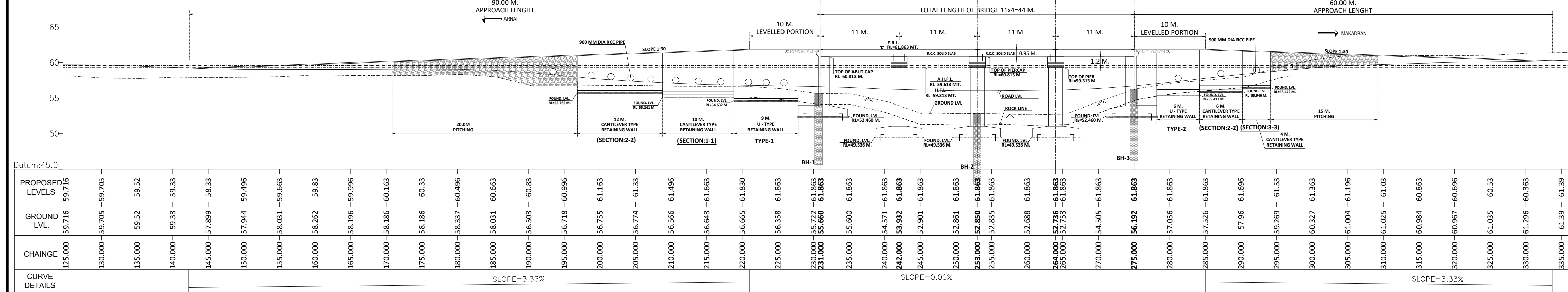


BRIDGE IS DESIGN FOR CLASS 70R OR CLASS 2A.  
SPECIAL VEHICLE LOADING WHICH IS GOVERNING CASE

REFERENCE CODE	HYDRAULIC PARAMETERS :-
1. IRC 6-2017	DISCHARGE = 603 Cumecs.
2. IRC 78-2014	AHFL = 59.613 m.
3. IRC 112-2020	HFL = 59.313 m.
4. IRC SP 114-2018	OBSTRUCTION VELOCITY = 3.50 m/s.
5. IRC 5-2015	BED SLOPE = 0.001110 VALUE OF 'M' = 0.045 FREE BOARD = 1200 mm.

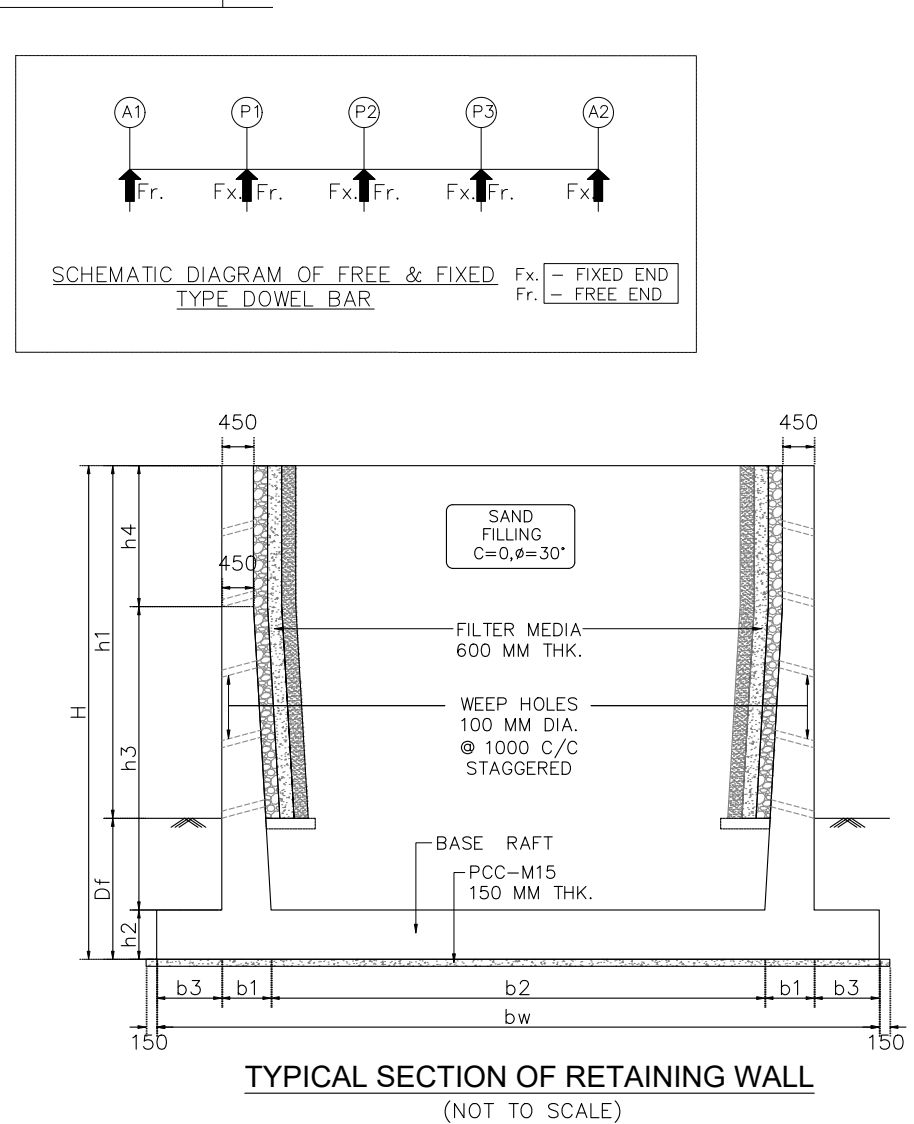
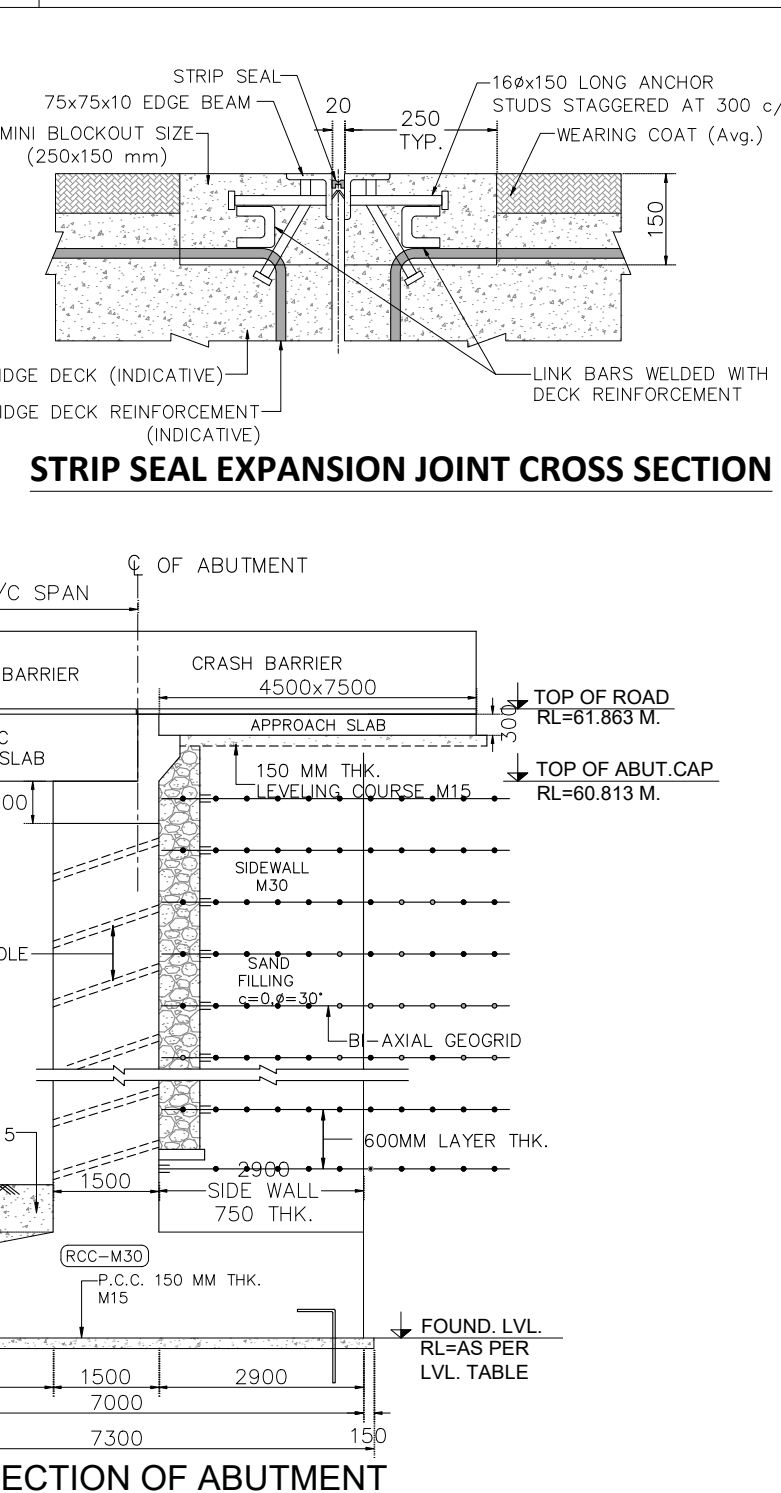
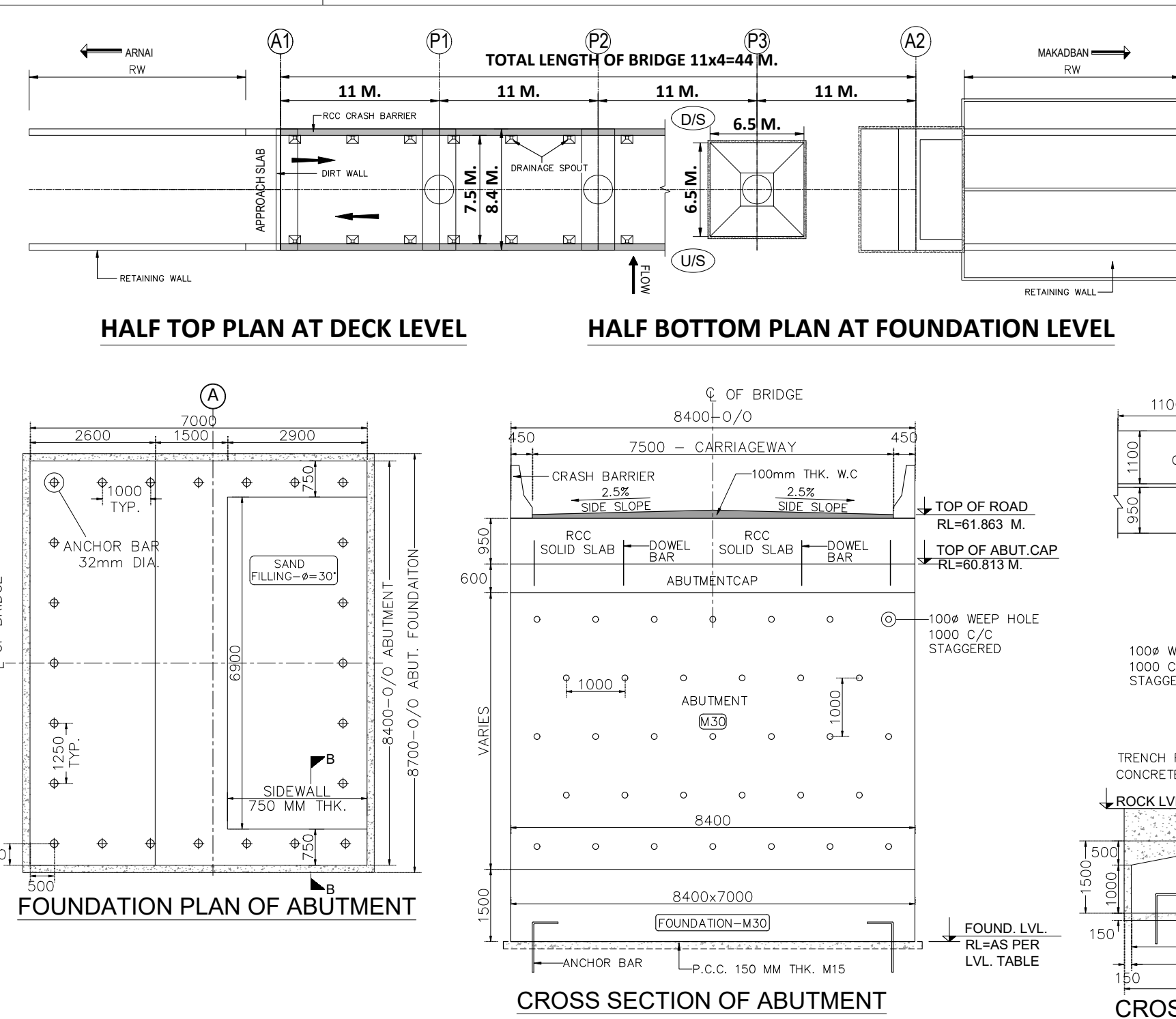
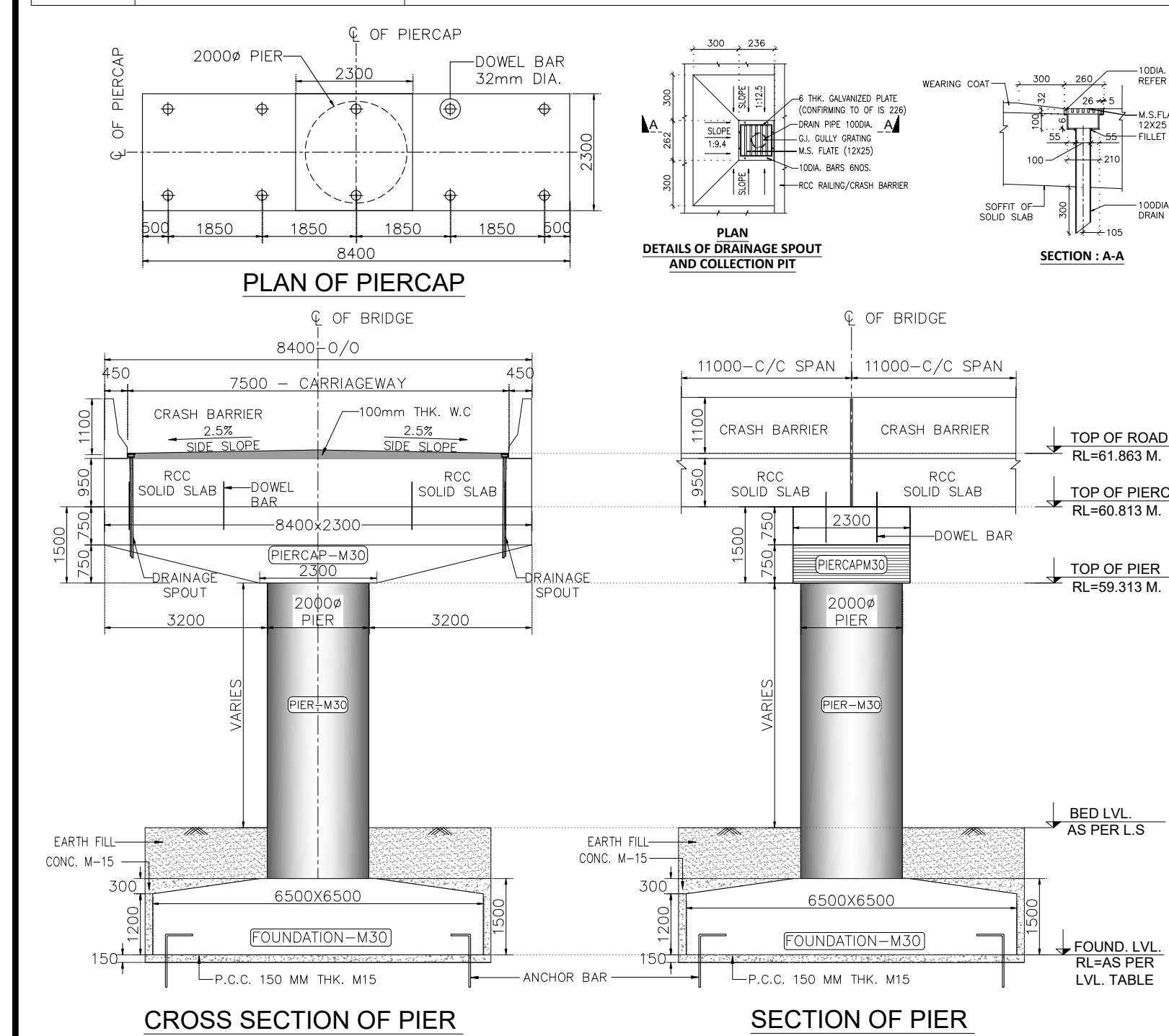
**NOTES:-**

- ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METRES UNLESS OTHERWISE MENTIONED IN DRAWING.
- SEISMIC ZONE III IS CONSIDERED FOR THIS DESIGN.
- DO NOT SCALE THE DRAWING, FOLLOW THE WRITTEN DIMENSION.
- EXPOSURE CONDITION MODERATE AS PER IS IRC 112:2020 - CL 14.3.1 TABLE 14.1
- 150 MM THICK LEVELLING COURSE IN NMC M15 SHALL BE PROVIDED BELOW FOUNDATION AS PER CL 709.5 OF IRC:78-2014.
- DURING ACTUAL EXECUTION, IF THE FOUNDATION LEVELS OF PIERS, ABUTMENT AND RETAINING WALL ETC. ARE DIFFERENT FROM THOSE SHOWN IN THE DRAWING, THE SECTION OF THE SAME SHALL BE BROUGHT TO THE NOTICE OF DESIGN CONSULTANT.
- WEEP HOLES WITH BACKING OF FILTERMATERIALS SHALL BE PROVIDED IN ABUTMENTS & RETAINING WALL ACCORDANCE WITH APPENDIX-6 OF IRC 78-2014.
- STEEL USED SHALL BE TMT BARS CONFIRMING TO I.S. 1786, FE 550D STEEL AS PER UPDATED GUIDELINES OF G.R. DTD. 10-08-2024
- FURON BONDED EPOXY COATING SHOULD BE USED AS PER UPDATED GUIDELINES OF G.R. DTD. 10-08-2024
- STRIP SEAL EXPANSION JOINT OF APPROVED MOST MANUFACTURER SHALL BE PROVIDED IN DECK AT EXPANSION GAP.
- ALL R.C.C. WORK SHALL CONFORM TO I.R.C.
- GRADE OF CONCRETE  
12.1. LEVELLING COURSE ----- M15.  
12.2. FOUNDATION ----- M30.  
12.3. SUB STRUCTURE ----- M30.  
12.4. SUPER STRUCTURE ----- M30.  
12.5. CRASH BARRIER ----- M40  
12.6. WEARING COAT ----- M40.
- SBC REPORT CARRIED OUT BY AAKAR CONSULTANCY SERVICES, REPORT NO: ACS/TL/26040701/1. DATE :- 07-04-2026.
- GEOTECHNICAL SOIL INVESTIGATION REPORT & SAME SHALL BE INSURED BEFORE EXECUTION. GEOTECHNICAL INVESTIGATION CARRIED OUT BY THE AAKAR CONSULTANCY SERVICES, PALSANA, DIST. - SURAT, PIN 394315, GUJARAT, INDIA. REPORT NO: ACS/TL/26040701/1. DATE :- 07-04-2026.
- THE SBC REPORT FOR PIER 43 T/M\*2 FOR ABUTMENT A1 42 T/M\*2 AND FOR ABUTMENT A2 48 T/M\*2 AS PER GEOTECHNICAL SOIL INVESTIGATION REPORT & SAME SHALL BE INSURED BEFORE EXECUTION. GEOTECHNICAL INVESTIGATION CARRIED OUT BY THE AAKAR CONSULTANCY SERVICES, PALSANA, DIST. - SURAT, PIN 394315, GUJARAT, INDIA. REPORT NO: ACS/TL/26040701/1. DATE :- 07-04-2026.
- CLEAR COVER FOR  
A. PIER AND ABUTMENT FOUNDATION=75 MM  
B. PIER AND ABUTMENT = 50 MM  
C. PIERCAP AND ABUTMENTCAP = 40 MM  
D. DIRT WALL, SIDE WALL = 50 MM  
E. SUPER STRUCTURE = 40 MM



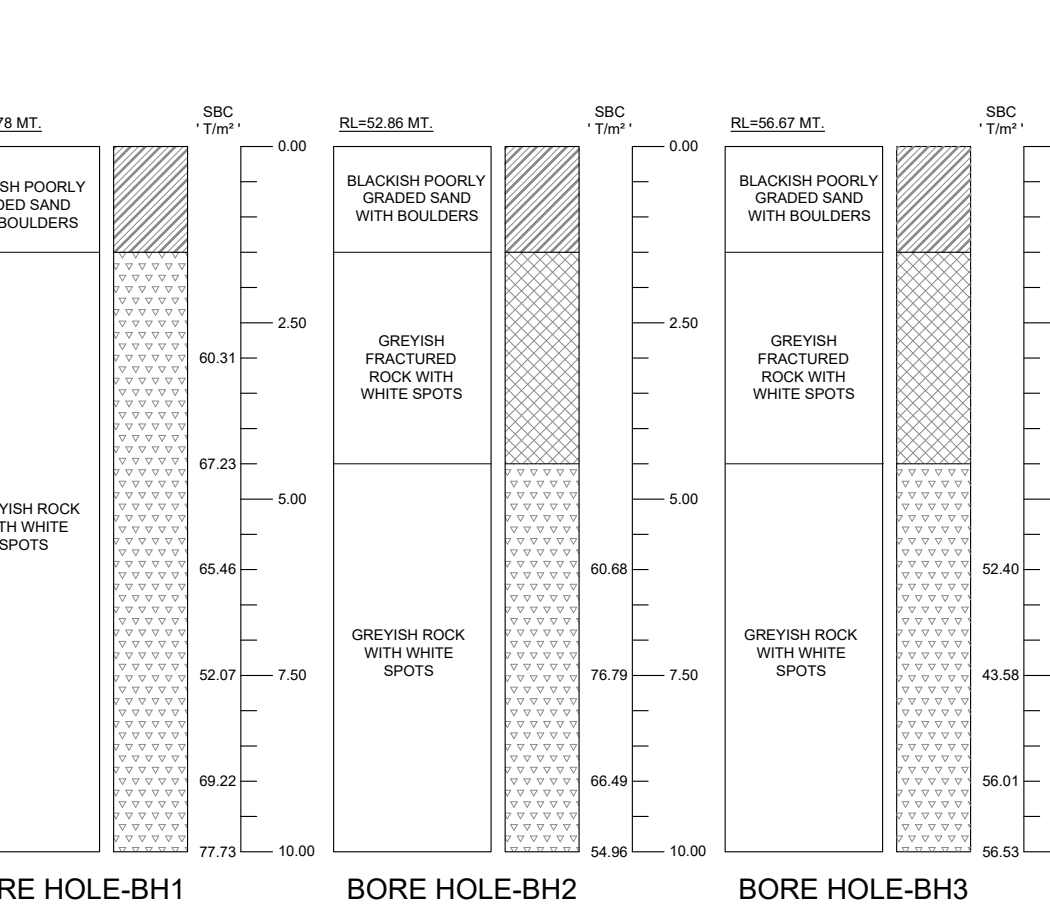
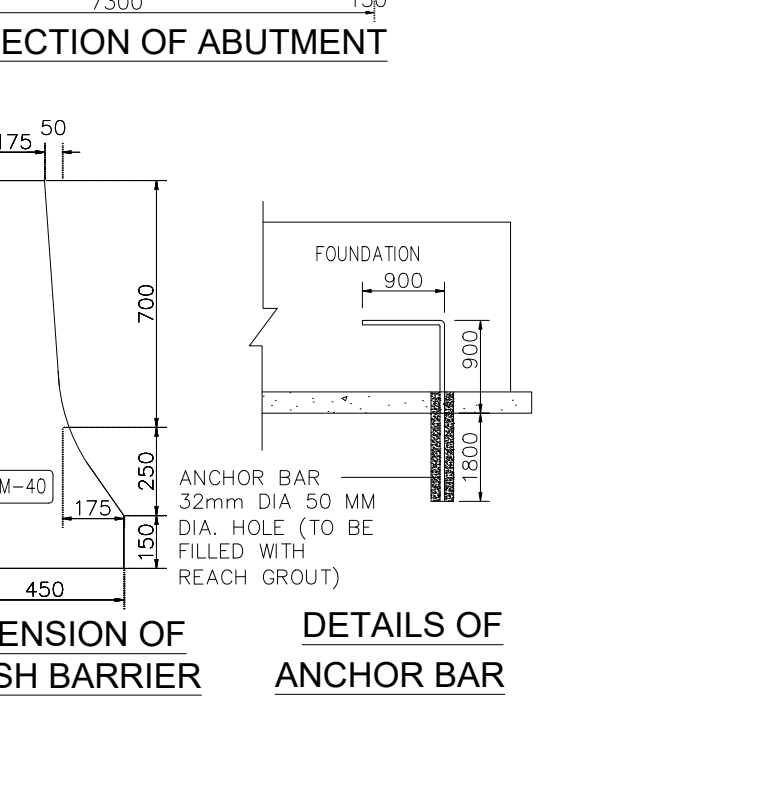
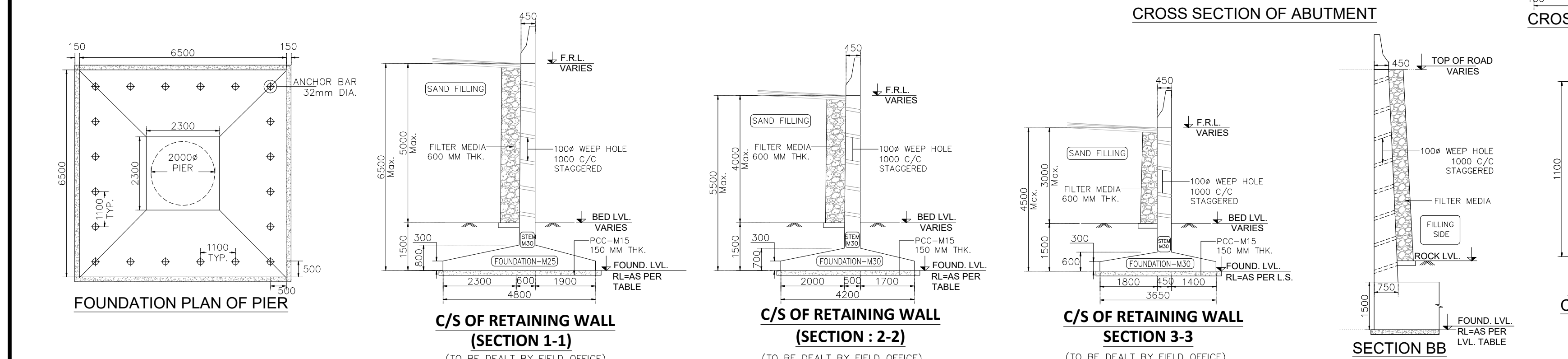
**LEVEL TABLE:-**

GRID NO.	TOP OF ROAD	TOP OF ABUT/PIER CAP	TOP OF ABUT/PIER	HEIGHT OF ABUT/PIER	EXISTING GROUND LEVEL	FOUNDATION BOTTOM LEVEL
A1	61.863	60.813	60.213	6.253	55.660	52.460
P1	61.863	60.813	59.313	8.277	54.932	49.536
P2	61.863	60.813	59.313	8.277	52.850	49.536
P3	61.863	60.813	59.313	8.277	52.736	49.536
A2	61.863	60.813	60.213	6.253	56.192	52.460



**DIMENSIONAL DETAILS OF U TYPE RETAINING WALL**

TYPE	H (mm)	h1 (mm)	h2 (mm)	h3 (mm)	h4 (mm)	Df (mm)	b1 (mm)	b2 (mm)	b3 (mm)	Bw (mm)
TYPE-1	7500	6000	800	5200	1500	1500	800	6800	900	10200
TYPE-2	6500	5000	700	4300	1500	1500	700	7000	700	9800



**ROADS AND BUILDING DEPARTMENT**  
**GOVERNMENT OF GUJARAT**

**PROJECT**  
**MMGSY Year (2025-26), Construction of Minor Bridge on Makadban Pathsall Road at Ch. 1/6 to 1/8, Ta: Dharampur , Dist.: Valsad.**

**TITLE**  
**GENERAL ARRANGEMENT DRAWING**

**THE EXECUTIVE ENGINEER**  
**PANCHAYAT (R&B) DIVISION**  
**VALSAD**

**THE DY. EXECUTIVE ENGINEER**  
**PANCHAYAT (R&B) SUB DIVISION**  
**DHARAMPUR**

**CONSULTANT**

**CONSULTANT:**

**2102, THE JYUNOMONETA TOWER RAJNATH MULTIPLEX-PAL-HAZIRA MAIN**  
**ROAD SURAT GUJARAT**  
**E-MAIL: green.des.india@gmail.com, info@greendes.com**

**DRG NO.-GAD/MAKADBAN/R0/001**

**DATE :- 09-04-2026**

**PREPARED BY**  
**T.P.**

**DESIGNED BY**  
**K.K.**

**APPROVED BY**  
**S.S.S.**