

# Bangladesh Water Development Board

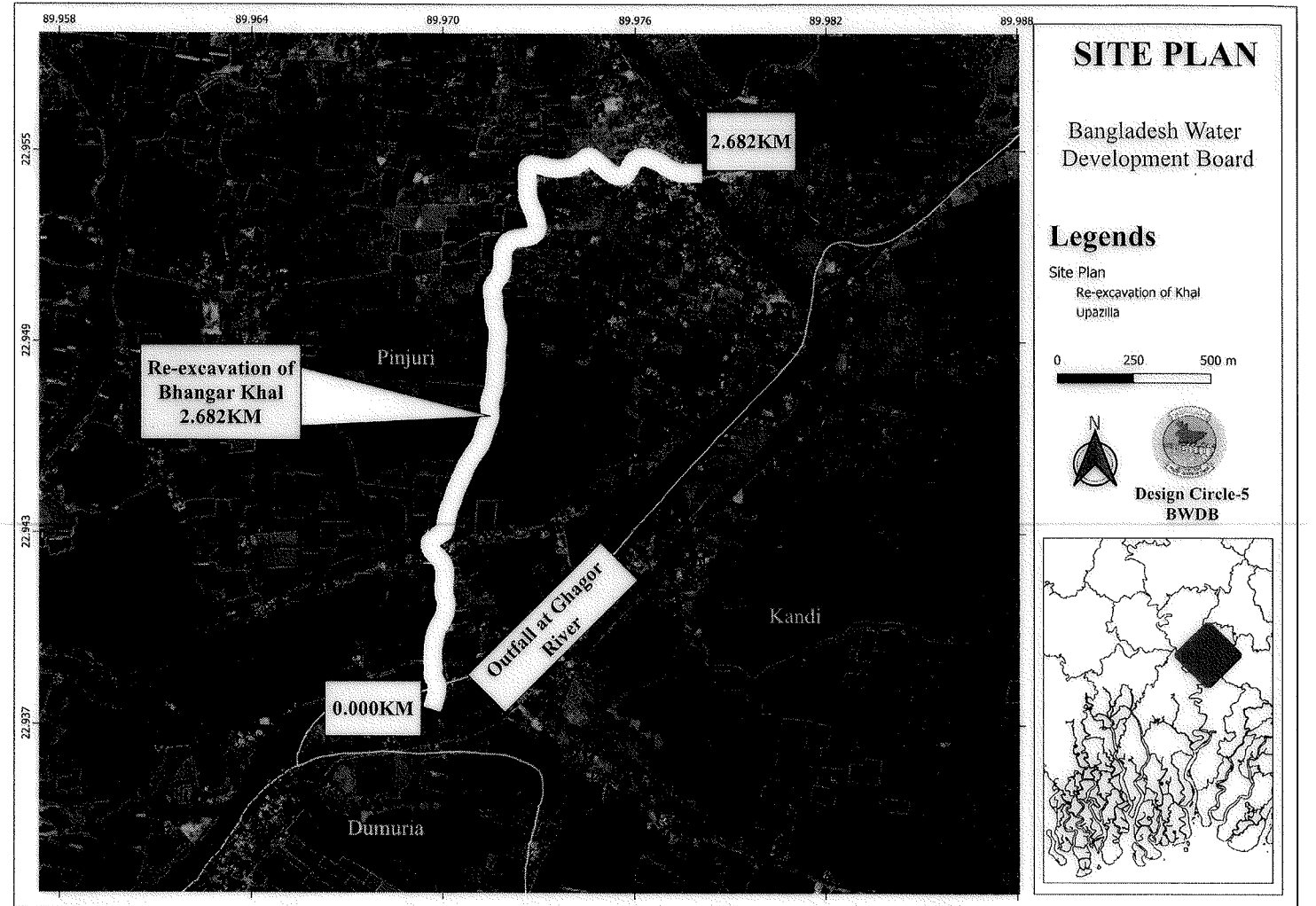
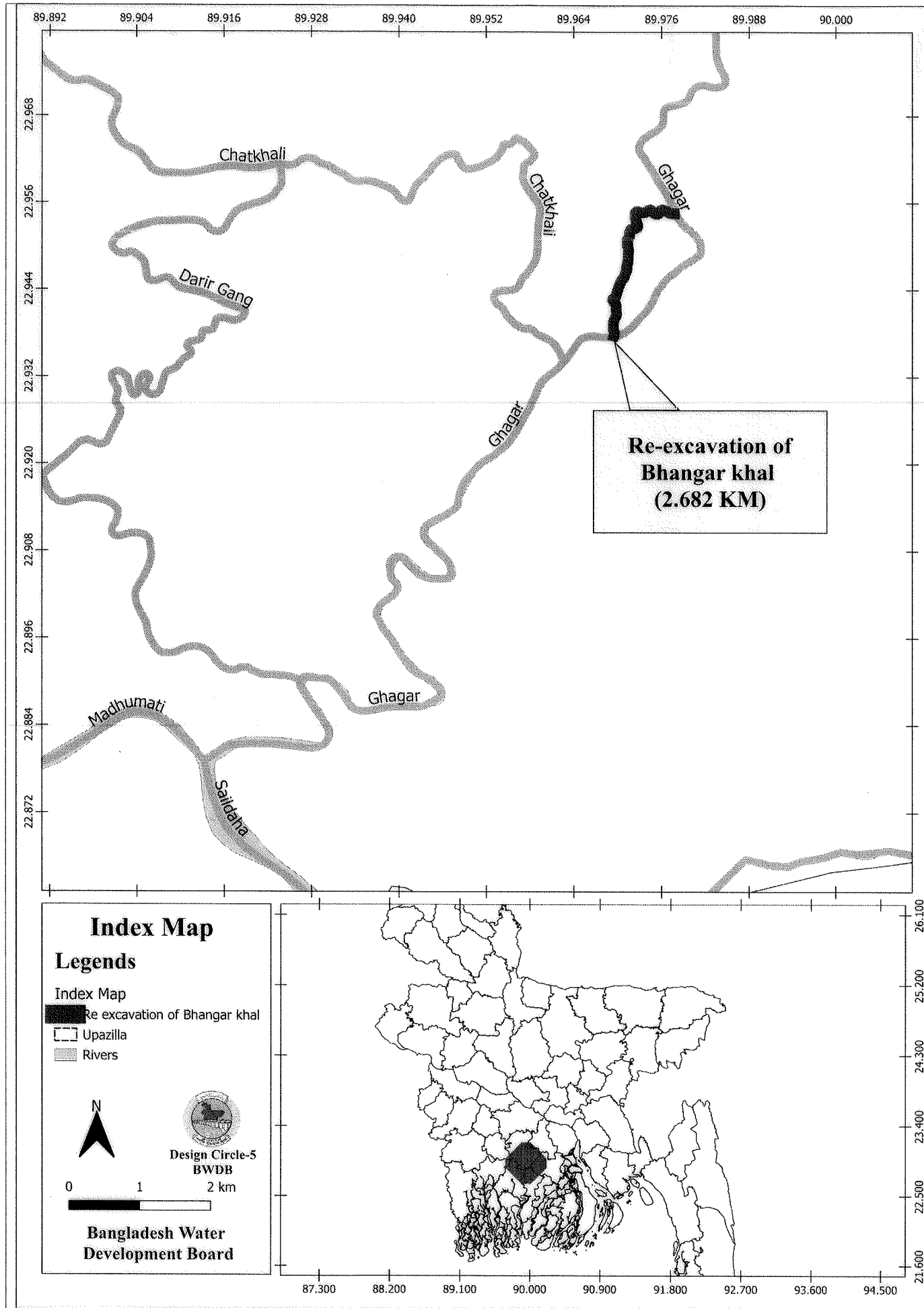
## CRISP-WRM



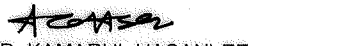
Re-excavation of Bhangar khal from km. 0.000 to km. 2.682 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025.

SMO, IDWRM-KT(CRISP-WRM)

Designed by: Design Circle-5, BWDB, Dhaka

February, 2025



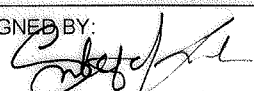
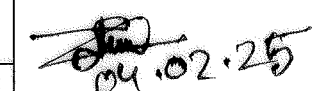

Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
Re-excitation of Bhangar khal from km. 0.000 to km. 2.682 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025.	
<b>INDEX MAP &amp; SITE MAP FOR BHANGAR KHAL</b>	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMARUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5786-01/17

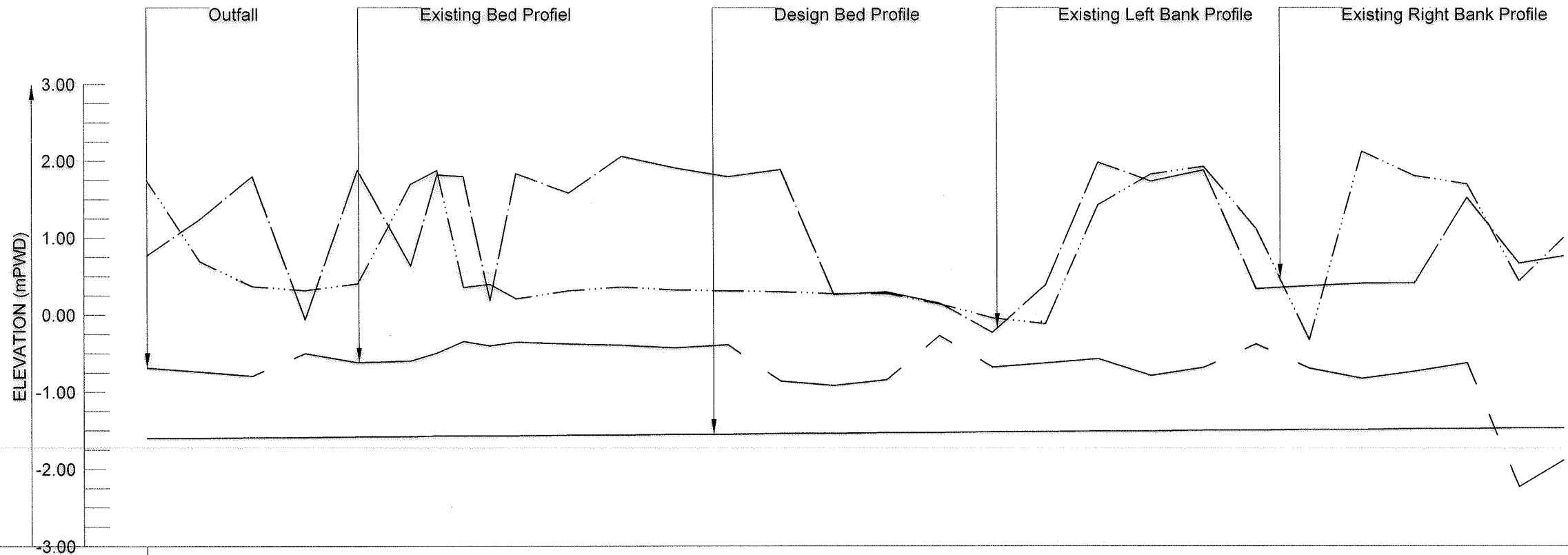
Administrative Notes :

1. FOR ANY ERROR, OMISSION OR CONFUSION PLEASE REFER TO THIS OFFICE AS QUICK AS POSSIBLE FOR FURTHER NECESSARY ACTION
2. WORK SHALL BE EXECUTED AFTER ADMINISTRATIVE AND FINANCIAL APPROVAL AND TECHNICAL SANCTION FROM THE COMPETENT AUTHORITY AND WITHIN THE DPP / BUDGET PROVISION.
3. ALL DIMENSIONS AND ELEVATIONS ARE IN MILLIMETER AND METER(PWD) RESPECTIVELY UNLESS OTHERWISE MENTIONED IN THE DRAWING.
4. ALL MATERIALS AND WORK MUST CONFIRM WITH BWDB TECHNICAL SPECIFICATION.
5. NECESSARY LAND (IF REQUIRED) SHALL BE ARRANGED BY THE FIELD OFFICE FOR RE-EXCAVATION & CONSTRUCTION OF DYKE (IF REQUIRED).
6. THE RE-EXCAVATION OF THE KHAL SHALL START FROM DOWNSTREAM SIDE.
7. A SMOOTH TRANSITION SHALL BE PROVIDED BETWEEN THE EXCAVATED SECTION OF THE KHAL AND THE EXISTING SECTION.
8. A SMOOTH TRANSITION 1:100 SHALL BE PROVIDED AT THE POINT WHERE DESIGN BED WIDTH OR BED LEVEL CHANGES.
9. A SMOOTH TRANSITION AT A SLOPE OF 1:100 SHALL BE KEPT BETWEEN APRON LEVEL OF CONNECTING STRUCTURE (IF ANY) TO DESIGN BED LEVEL OF KHAL.
10. THE RE-EXCAVATION WORK SHALL BE DONE IN THE DRY SEASON WHEN WATER LEVEL IS AT OR NEAR LOW WATER LEVEL
11. NO FILLING SHALL BE DONE WHERE THE EXISTING BED LEVEL OF THE KHAL IS LOWER THAN THE DESIGN BED LEVEL AND EXISTING SIDE SLOPE IS FLATTER THAN DESIGN SECTION.
12. ANY OUTFALL/OFFTAKE RIVER/KHAL WHICH IS CONNECTED WITH THE PROPOSED KHAL SHALL BE KEPT OPEN.
13. TYPICAL DESIGN SECTIONS ARE PROVIDED IN THIS DESIGN FOR RE-EXCAVATION. CROSS SECTIONS AT AN INTERVAL NOT MORE THAN 150.00M TO BE TAKEN BY THE FIELD OFFICE FOR THE ESTIMATION OF ACTUAL VOLUME OF EARTH CUTTING.
14. EXCAVATED EARTH TO BE COLLECTED FROM RIVER CAREFULLY CONSIDERING NO ADVERSE EFFECT ON CHANNEL FLOW AND BANK ERROSION.
15. ANY PROPOSED BOX CULVERT /BRIDGE OVER THIS KHAL WILL BE DESIGNED CONSIDERING DESIGN SECTIONS OF THIS KHAL

**SPECIAL NOTES :**

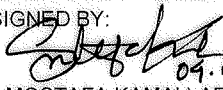


1. THIS REVISED DRAWING HAS BEEN PREPARED AS PER PROPOSAL AND DESIGN DATA SUBMITTED BY PD,CRISP-WRM HIS OFFICE MEMO NO-PMO/190; DATE: 11/11/2024
2. THIS RE-REEXCAVATION WORK HAS ALSO BEEN DESIGNED CONSIDERING THE WATER RESERVOIR AS WELL AS FOR IRRIGATION PURPOSE.
3. IF THE EXISTING BED LEVEL OF THE OUTFALL (RIVER / KHAL) IS HIGHER THAN DESIGN BED LEVEL OF THIS KHAL, RE-EXCAVATION OF THIS KHAL MUST BE DONE IN PARALLEL/ AFTER THE RE-EXCAVATION OF ITS OUTFALL RIVER / KHAL AS PER APPROVED DESIGN.
4. IF THERE EXISTS ANY STRUCTURE ( REGULATOR, BOX CULVERT ETC.) OTHER THAN BRIDGE WITHIN THE PROPOSED LENGTH OF THE KHAL, RE-EXCAVATION WORK IS PROHIBITED THROGHOUT THE LENGTH OF THAT STRUCTURE.
5. DESIGN BED LEVEL OF THE KHAL SHALL NOT BE BELOW THE FOUNDATION TOP LEVEL OF THE EXISTING STRUCTURES (IF ANY) IN THE KHAL. IF THE DESIGN BED LEVEL IS BELOW THE FOUNDATION TOP LEVEL THEN THE DIFFERENCE BETWEEN THESE LEVELS SHALL BE MATCHED IN A SLOPE 1:100, OR A DISTANCE OF 100 M, WHICHEVER IS HEIGHER (U/S AND D/S OF THE STRUCTURE), (OR AS SHOWN IN THE DRAWING).
6. DESIGN BED LEVEL & BED WIDTH OF THIS KHAL HAVE BEEN FIXED CONSIDERING THE BED LEVEL & BED WIDTH OF EXISTING KHAL/ FLOOR LEVEL OF EXISTING HYDRAULIC STRUCTURE.
7. ALL SAFETY PRECAUTION MUST BE TAKEN DURING EXECUTION OF WORK.

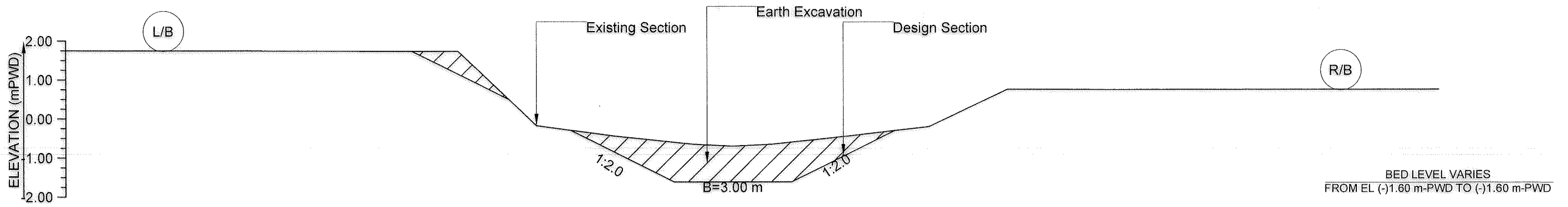
Bangladesh Water Development Board	
Office of The Superintending Engineer,Design Circle-5	
CRISP-WRM	
Re-excavation of Bhangar khal from km. 0.000 to km. 2.682 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025.	
NOTES FOR BHANGAR KHAL	
DESIGNED BY:  (MD.MOSTAFA KAMAL),AE	APPROVED BY:  (JAKARIA PERVEZ),SE
CHECKED AND RECOMMENDED BY:  (MD. KAMARUL HASAN),EE	
Date:04/02/2025	Drawing No:DC5-5786-02/17



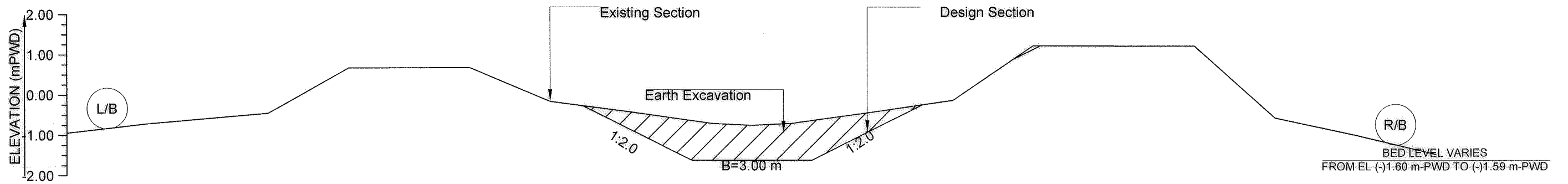
Distance(Km)	Existing Right Bank Level (mPWD)	Existing Left Bank Level (mPWD)	Existing Bed Level (mPWD)	Design Bed Level (mPWD)	Design Bed Width(m)
0.000	0.772	1.737	(-)0.688	(-)1.600	15.00
0.100	1.242	0.692	(-)0.738		
0.200	1.797	0.367	(-)0.793	(-)1.590	
0.300	(-)0.060	0.314	(-)0.502		
0.400	1.880	0.404	(-)0.620	(-)1.580	
0.500	0.633	1.693	(-)0.599		
0.550	1.818	1.873	(-)0.497	(-)1.570	
0.600	1.793	0.353	(-)0.347		
0.650	0.185	0.395	(-)0.405		
0.700	1.834	0.205	(-)0.355		
0.800	1.581	0.311	(-)0.379	(-)1.560	
0.900	2.060	0.360	(-)0.395		
1.000	1.909	0.320	(-)0.430	(-)1.550	
1.100	1.795	0.309	(-)0.390		
1.200	1.886	0.296	(-)0.864	(-)1.540	
1.300	0.261	0.271	(-)0.921		
1.400	0.296	0.276	(-)0.845	(-)1.530	
1.500	0.148	0.138	(-)0.272		
1.600	(-)0.232	(-)0.042	(-)0.682	(-)1.520	
1.700	0.380	(-)0.121	(-)0.630		
1.800	1.981	1.426	(-)0.574	(-)1.510	
1.900	1.734	1.826	(-)0.791		
2.000		1.926	(-)0.686	(-)1.500	
2.100	0.336	1.119	(-)0.381		
2.200	0.373	(-)0.327	(-)0.697	(-)1.490	
2.300	0.408	2.123	(-)0.827		
2.400	0.414	1.804	(-)0.736	(-)1.480	
2.500	1.521	1.697	(-)0.628		
2.598	0.664	0.435	(-)2.235	(-)1.470	
2.682	0.759	0.993	(-)1.891		

LONG SECTION OF BHANGAR KHAL APPLICABLE FROM KM 0.000 TO KM 2.682

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CRISP-WRM	
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LONG SECTION OF BHANGAR KHAL	
DESIGNED BY:  (MD.MOSTAFA KAMAL),AE	APPROVED BY:  (JAKARIA PERVEZ),SE
CHECKED AND RECOMMENDED BY:  (MD. KAMARUL HASAN),EE	
Date:04/02/2025	Drawing No:DC5-5786-03/17


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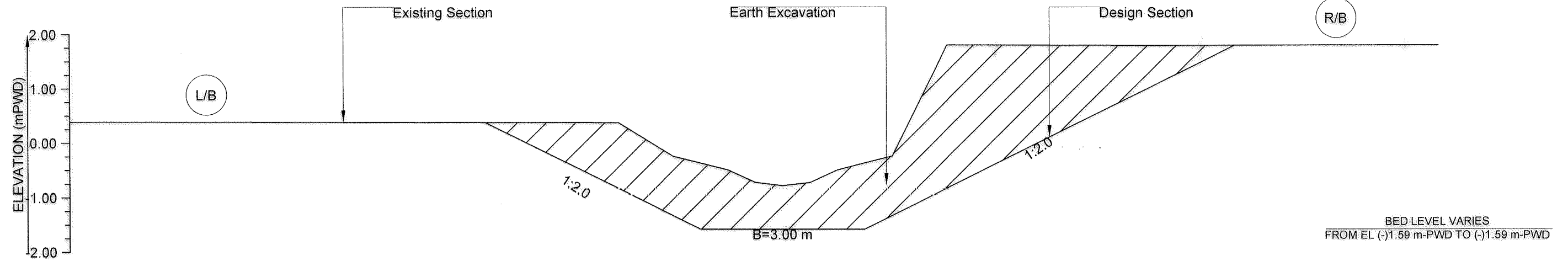
TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 0.000  
APPLICABLE FROM KM 0.000 TO KM 0.050



Design Bed Level in (mPWD)																				
Existing Bed Level in (mPWD)	(-0.948)		(-0.714)		(-0.448)		0.682													
Distance(m)	0.000		2.000		5.000		7.000		10.000		12.000		12.803		14.000		15.500		16.000	

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 0.100  
APPLICABLE FROM KM 0.050 TO KM 0.150

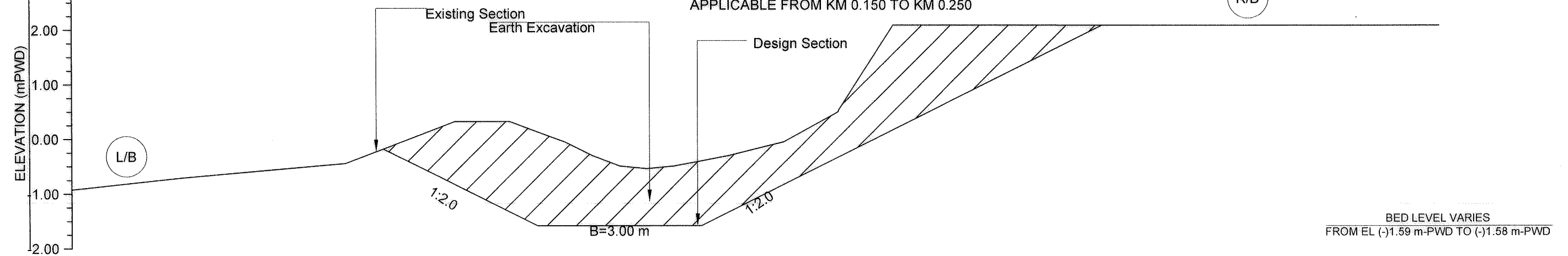
Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
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TYPICAL CROSS SECTION OF BHANGAR KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMARUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5786-04/17



Design Bed Level in (mPWD)																				
Existing Bed Level in (mPWD)	0.386				0.377															
Distance(m)	0.000	5.000	7.576	9.538	10.000	11.000	11.500	12.000	12.500	13.000	13.500	14.000	14.500	15.000	16.000	17.882	19.000	21.264	25.000	

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 0.200  
APPLICABLE FROM KM 0.150 TO KM 0.250

R/B



Design Bed Level in (mPWD)																			
Existing Bed Level in (mPWD)	-0.925	-0.712	-0.450	-0.186	0.314	0.312	0.126	-0.061	-0.311	-0.502	-0.550	-0.501	-0.407	-0.312	-0.123	-0.060	0.489	2.080	2.075
Distance(m)	0.000	2.000	5.000	5.692	7.000	8.000	8.500	9.000	9.500	10.000	10.500	11.000	11.500	12.000	12.750	13.000	14.000	15.000	18.000

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 0.300  
APPLICABLE FROM KM 0.250 TO KM 0.350

Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

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in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under  
Specialized Division. BWDB, Gopalganj during the year 2024-2025.

TYPICAL CROSS SECTION OF BHANGAR KHAL

DESIGNED BY:  
*[Signature]*  
(MD. MOSTAFA KAMAL), AE

APPROVED BY:

*[Signature]*  
04.02.25

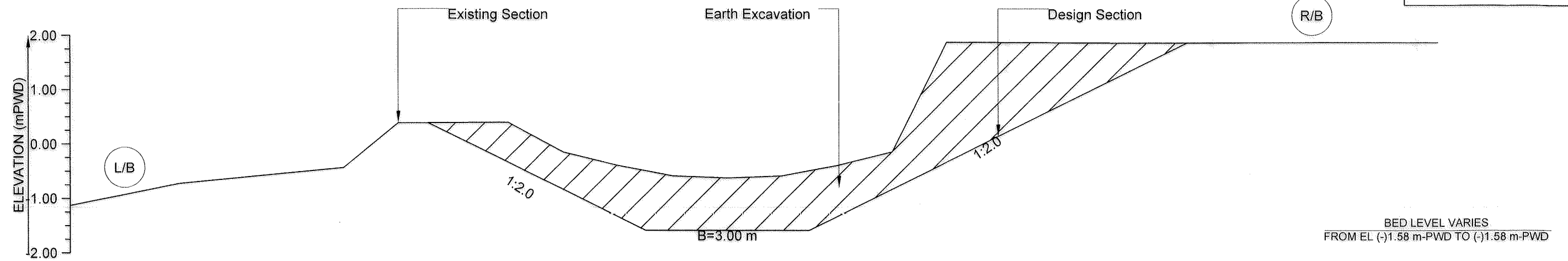
CHECKED AND RECOMMENDED BY:  
*[Signature]*  
(MD. KAMARUL HASAN), EE

(JAKARIA PERVEZ), SE

Date: 04/02/2025

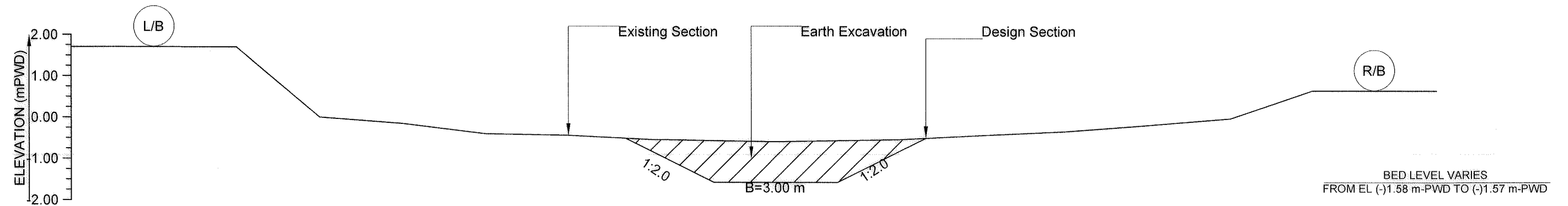
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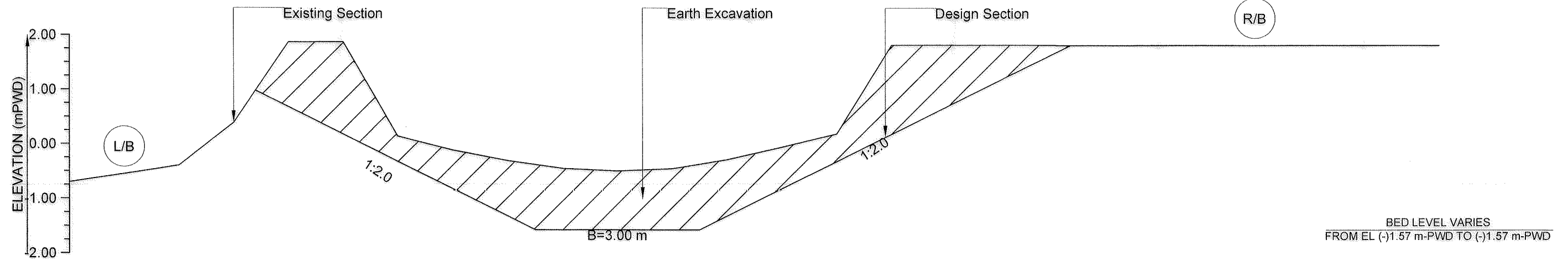
Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	(-1.130)	0.000
	(-0.730)	2.000
	(-0.430)	5.000
	0.395	8.000
	0.397	8.545
	0.404	9.000
	0.117	9.523
	(-0.145)	9.900
	(-0.391)	10.000
	(-0.487)(-1.580)	10.500
	(-0.582)	11.000
	(-0.620)(-1.580)	12.000
	(-0.581)	13.000
	(-1.580)	13.500
	(-0.392)	14.000
	(-0.140)	15.000
	1.980	16.000
	1.877	16.952
	1.872	19.000
		20.404
		25.000

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 0.400  
APPLICABLE FROM KM 0.350 TO KM 0.450

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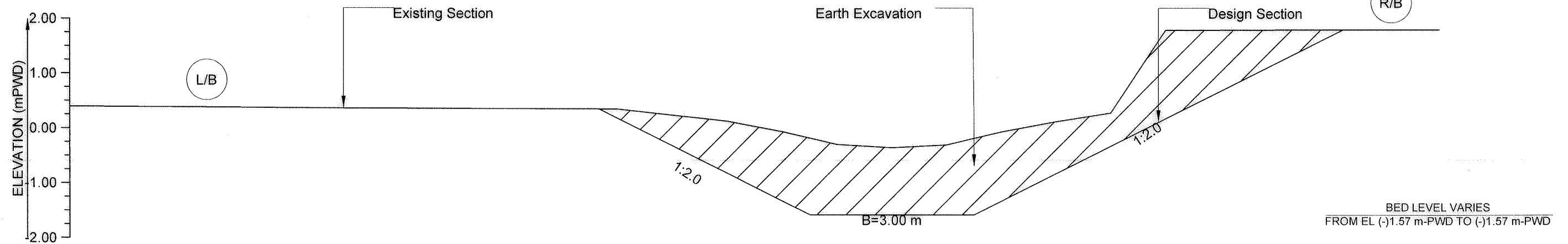
TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 0.500  
APPLICABLE FROM KM 0.450 TO KM 0.525

<p align="center"><b>Bangladesh Water Development Board</b></p>	
<p align="center"><b>Office of The Superintending Engineer, Design Circle-5</b></p>	
<p align="center"><b>CRISP-WRM</b></p>	
<p>Re-excavation of Bhangar khal from km. 0.000 to km. 2.682 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025.</p>	
<p align="center"><b>TYPICAL CROSS SECTION OF BHANGAR KHAL</b></p>	
<p>DESIGNED BY:  (MD. MOSTAFA KAMAL), AE</p>	<p>APPROVED BY:  (JAKARIA PERVEZ), SE</p>
<p>CHECKED AND RECOMMENDED BY:  (MD. KAMARUL HASAN), EE</p>	
<p>Date: 04/02/2025</p>	<p>Drawing No: DC5-5786-06/17</p>



Design Bed Level in (mPWD)																			
Existing Bed Level in (mPWD)	(-)0.703	(-)0.397	0.385	0.980	1.868	1.873	0.228	(-)0.112	(-)0.307	(-)0.378 (-)1.570	(-)0.497 (-)1.570	(-)0.449	(-)0.368 (-)1.570	(-)0.287	(-)0.058	0.188	1.631	1.815	
Distance(m)	0.000	2.000	3.000	3.401	4.000	5.000	5.950	7.000	8.000	8.500	9.000	10.000	11.000	11.500	12.000	13.000	14.000	14.885	18.000

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 0.550  
APPLICABLE FROM KM 0.525 TO KM 0.575



Design Bed Level in (mPWD)																			
Existing Bed Level in (mPWD)	0.393				0.368				0.354	0.353	0.242	0.179	0.133	(-)0.058	(-)0.174 (-)1.570	(-)0.347 (-)1.570	(-)0.297	(-)0.178 (-)1.570	(-)0.059
Distance(m)	0.000				5.000				9.652	10.000	11.000	11.576	12.000	13.000	13.500	14.000	15.000	16.000	16.500

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 0.600  
APPLICABLE FROM KM 0.575 TO KM 0.625

Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

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TYPICAL CROSS SECTION OF BHANGAR KHAL

DESIGNED BY:  
*[Signature]*  
(MD. MOSTAFA KAMAL), AE

APPROVED BY:

*[Signature]*  
04.10.25

CHECKED AND RECOMMENDED BY:

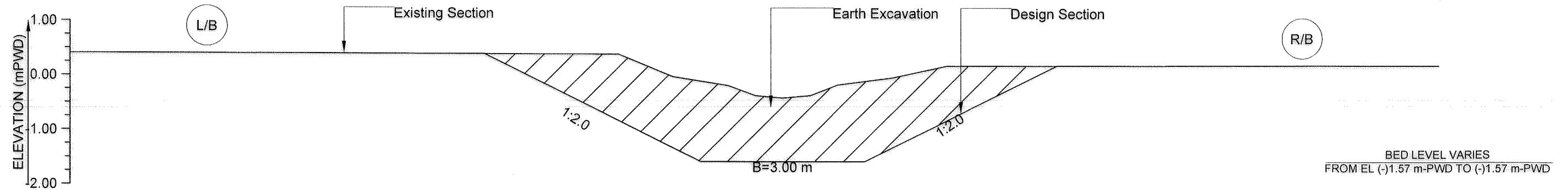
*[Signature]*  
(MD. KAMARUL HASAN), EE

(JAKARIA PERVEZ), SE

Date: 04/02/2025

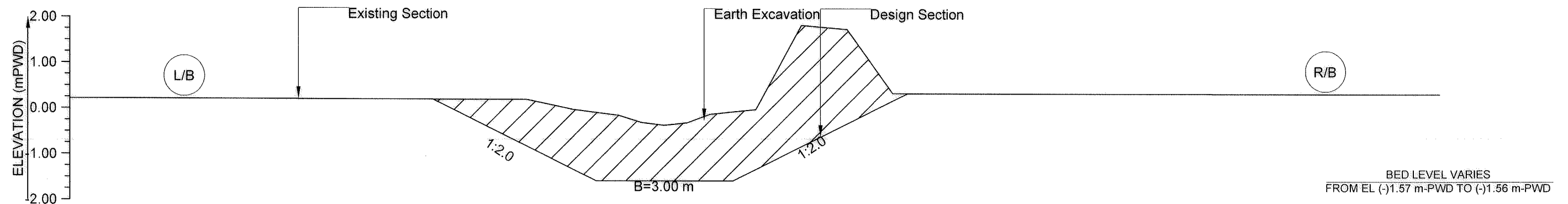
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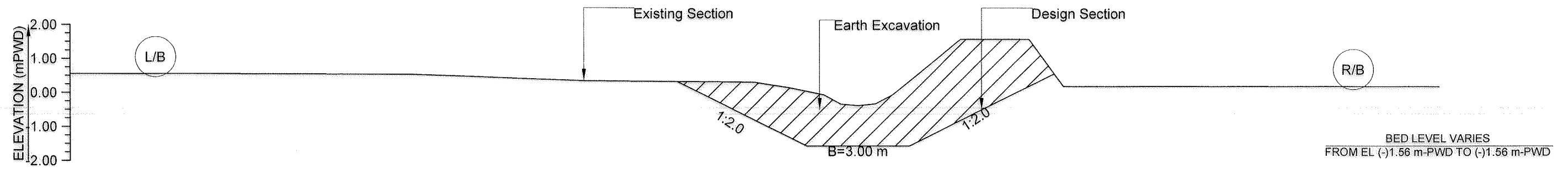
Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.405
Distance(m)	0.000
	0.404
	0.399
	0.396
	0.395
	0.015
	-0.088(-)1.570
	-0.180
	-0.359
	-0.405(-)1.570
	-0.360
	-0.166
	-0.101(-)1.570
	-0.036
	0.185
	0.185
	0.186
	0.190
	0.195

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 0.650  
APPLICABLE FROM KM 0.625 TO KM 0.675

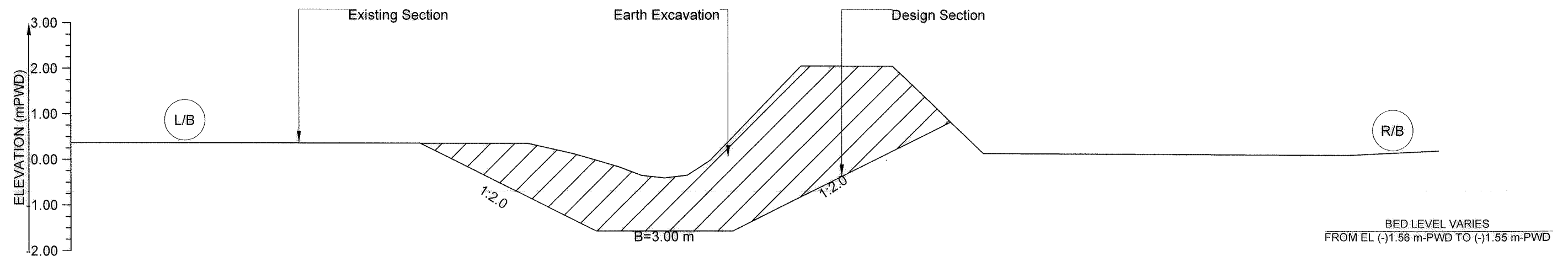
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TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 0.700  
APPLICABLE FROM KM 0.675 TO KM 0.750

Bangladesh Water Development Board	
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TYPICAL CROSS SECTION OF BHANGAR KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE 04.02.25	APPROVED BY:  (JAKARIA PERVEZ), SE 04.02.25
CHECKED AND RECOMMENDED BY:  (MD. KAMARUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5786-08/17

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TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 0.800  
APPLICABLE FROM KM 0.750 TO KM 0.850



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	0.370	0.000
	0.365	1.000
	0.362	1.655
	0.360	1.578
	0.360	0.000
	0.135	1.000
	-0.008(-)1.560	1.500
	-0.150	12.000
	-0.341	2.500
	-0.395(-)1.560	3.000
	-0.340	3.500
	-0.011	4.000
	-0.560	4.500
	0.060	6.000
	0.056	6.889
	0.052	8.000
	0.829	9.279
	0.140	10.000
	0.115	15.000
	0.100	18.000
	0.201	20.000

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 0.900  
APPLICABLE FROM KM 0.850 TO KM 0.950


Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5


CRISP-WRM

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TYPICAL CROSS SECTION OF BHANGAR KHAL

DESIGNED BY:  04.02.25  
(MD.MOSTAFA KAMAL),AE

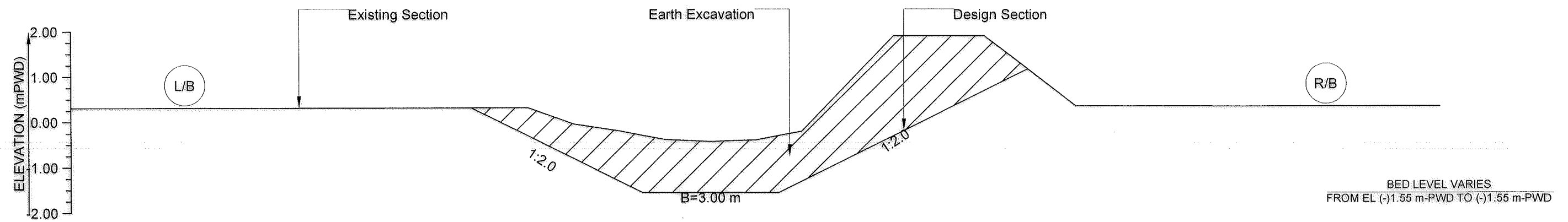
APPROVED BY:

CHECKED AND RECOMMENDED BY:  
  
(MD. KAMARUL HASAN),EE

(JAKARIA PERVEZ).SE

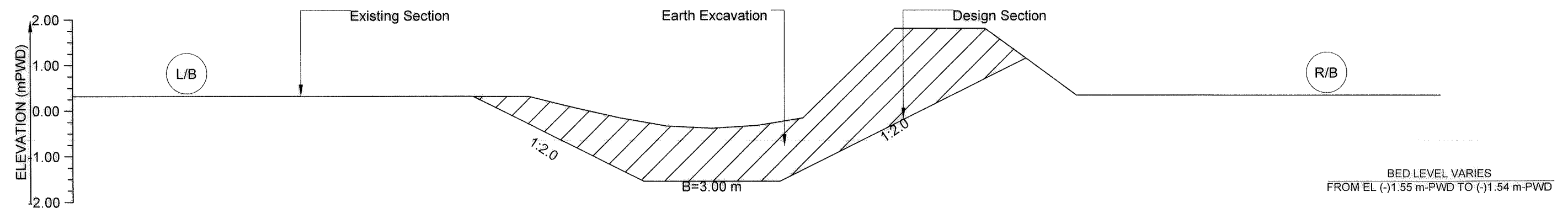
Date:04/02/2025

Drawing No: DC**5**-5786-09/17






Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	
Distance(m)	
	0.305
	0.310
	0.318
	0.320
	0.092
	(-0.040)
	(-0.195)
	(-0.290)(-1.550)
	(-0.385)
	(-0.430)(-1.550)
	(-0.390)
	(-0.295)(-1.550)
	(-0.200)
	1.305
	1.173
	0.360
	0.355
	0.350

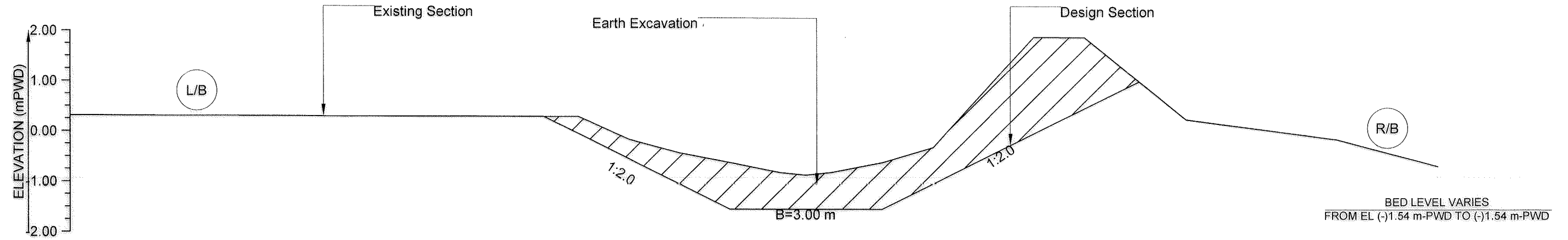
TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 1.000  
APPLICABLE FROM KM 0.950 TO KM 1.050



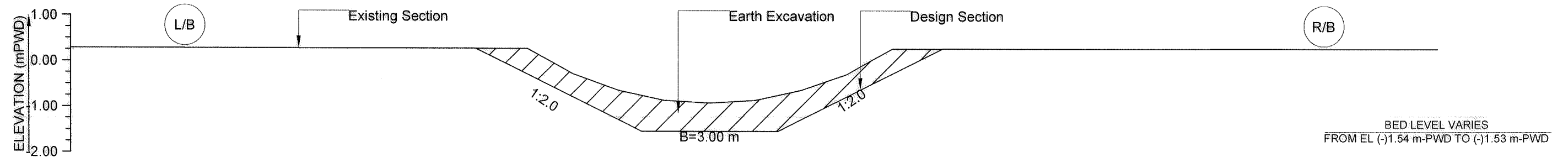
Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	0.319	0.000
	0.315	0.000
	0.310	0.779
	0.309	0.000
	0.150	0.640
	0.060	1.000
	-0.165	2.000
	-0.253(-)1.550	2.500
	-0.340	3.000
	-0.390(-)1.550	4.000
	-0.331	5.000
	-0.249(-)1.550	5.500
	-0.166	6.000
	1.800	8.000
	1.800	8.196
	1.795	20.000
	1.146	20.892
	0.340	22.000
	0.335	35.000
	0.330	30.000

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 1.100  
APPLICABLE FROM KM 1.050 TO KM 1.150

Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
Re-excavation of Bhangar khal from km. 0.000 to km. 2.682 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025.	
TYPICAL CROSS SECTION OF BHANGAR KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE 04.02.25	APPROVED BY:  (JAKARIA PERVEZ), SE 04.02.25
CHECKED AND RECOMMENDED BY:  (MD. KAMARUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5786-10/17




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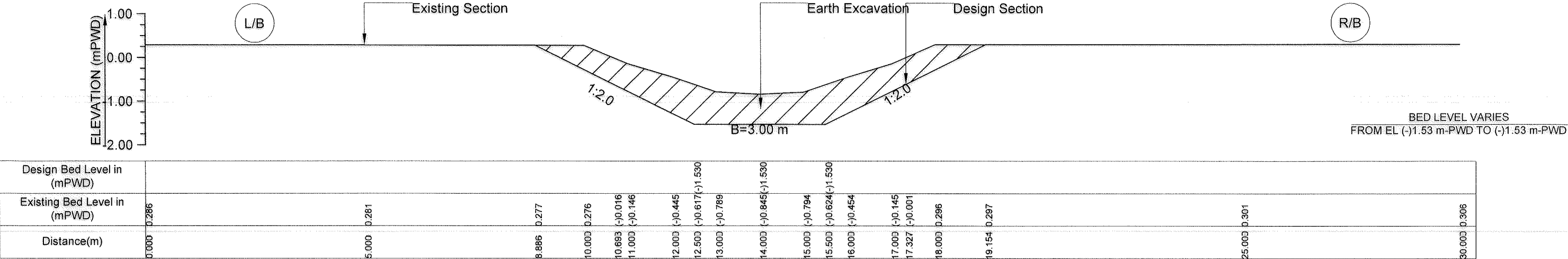
TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 1.200  
APPLICABLE FROM KM 1.150 TO KM 1.250



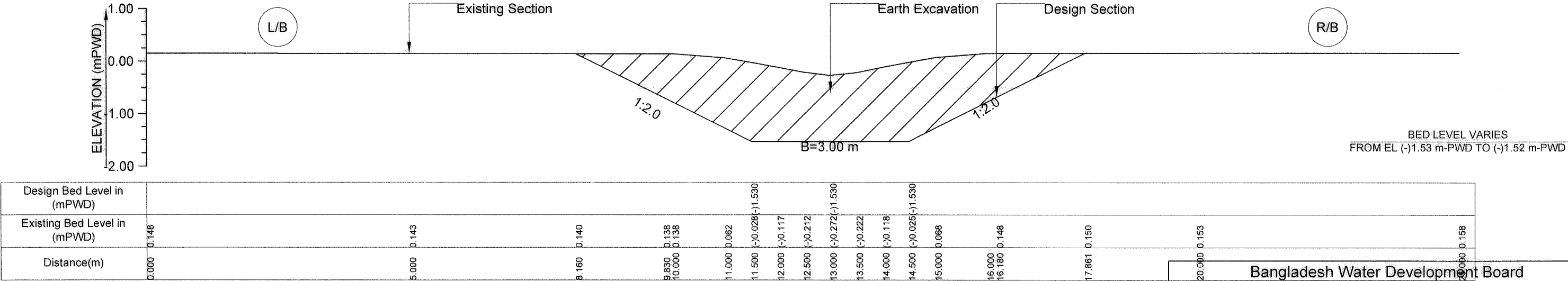
Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	
Distance(m)	
0.000	0.281
5.000	0.276
8.876	0.272
10.000	0.271
10.888	(-0.111)
11.000	(-0.284)
12.000	(-0.645)
12.500	(-0.755)(-1.540)
13.000	(-0.865)
14.000	(-0.921)(-1.540)
15.000	(-0.864)
15.500	(-1.540)
16.000	(-0.646)
17.000	(-0.299)
17.302	(-0.130)
18.000	0.261
19.104	0.262
25.000	0.266
30.000	

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 1.300  
APPLICABLE FROM KM 1.250 TO KM 1.350

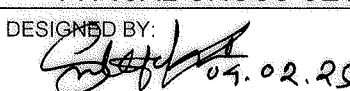


Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
Re-excavation of Bhangar khal from km. 0.000 to km. 2.682 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025.	
TYPICAL CROSS SECTION OF BHANGAR KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE 04.02.25	APPROVED BY:  (JAKARIA PERVEZ), SE 04.02.25
CHECKED AND RECOMMENDED BY:  (MD. KAMARUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5786-11/17

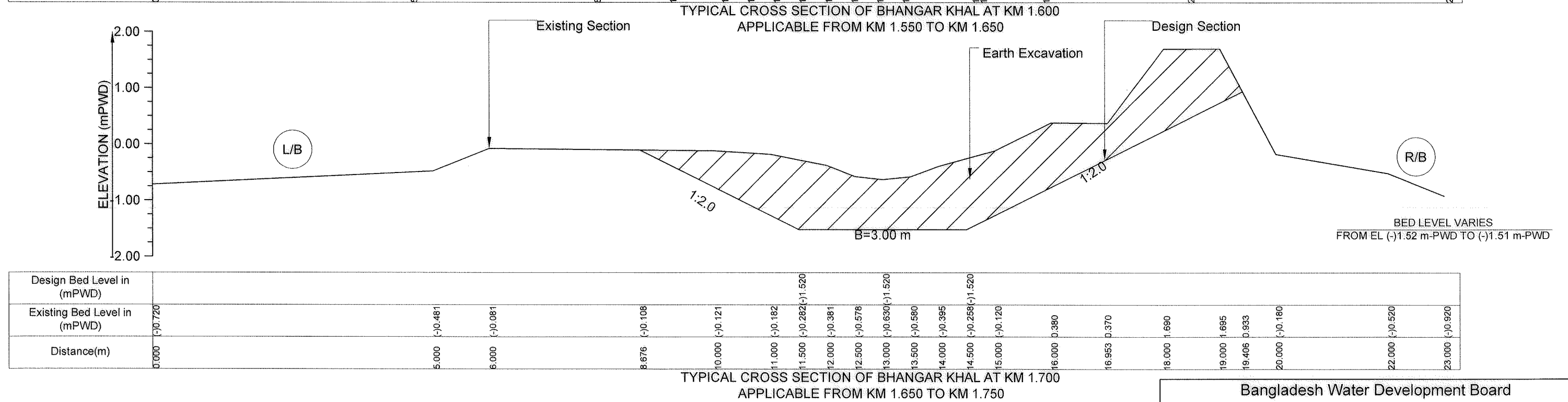
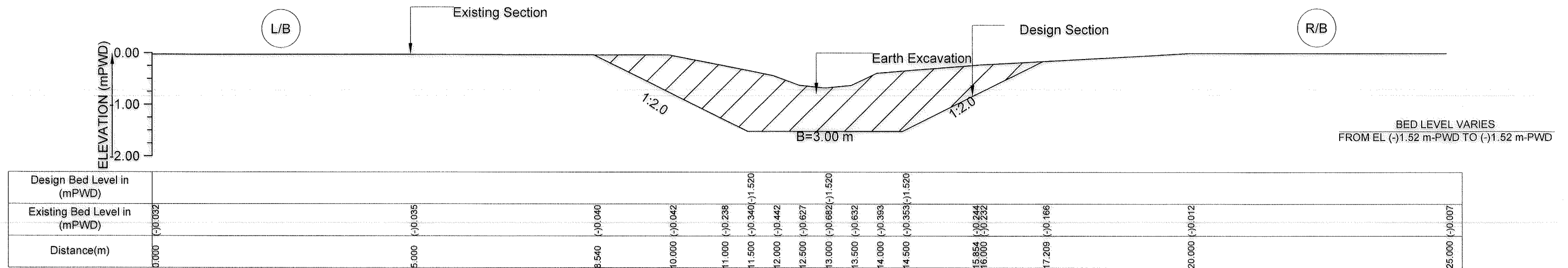


TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 1.400  
APPLICABLE FROM KM 1.350 TO KM 1.450



TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 1.500  
APPLICABLE FROM KM 1.450 TO KM 1.550

Bangladesh Water Development Board	
Office of The Superintending Engineer,Design Circle-5	
CRISP-WRM	
Re-excavation of Bhangar khal from km. 0.000 to km. 2.682 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025.	
TYPICAL CROSS SECTION OF BHANGAR KHAL	
DESIGNED BY:  (MD.MOSTAFA KAMAL),AE	APPROVED BY:  (JAKARIA PERVEZ),SE
CHECKED AND RECOMMENDED BY:  (MD. KAMARUL HASAN),EE	
Date:04/02/2025	Drawing No:DC5-5786-12/17



Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

Re-excavation of Bhangar khal from km. 0.000 to km. 2.682 in polder -2  
in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under  
Specialized Division. BWDB, Gopalganj during the year 2024-2025.

TYPICAL CROSS SECTION OF BHANGAR KHAL

DESIGNED BY:  
*[Signature]*  
(MD. MOSTAFA KAMAL), AE

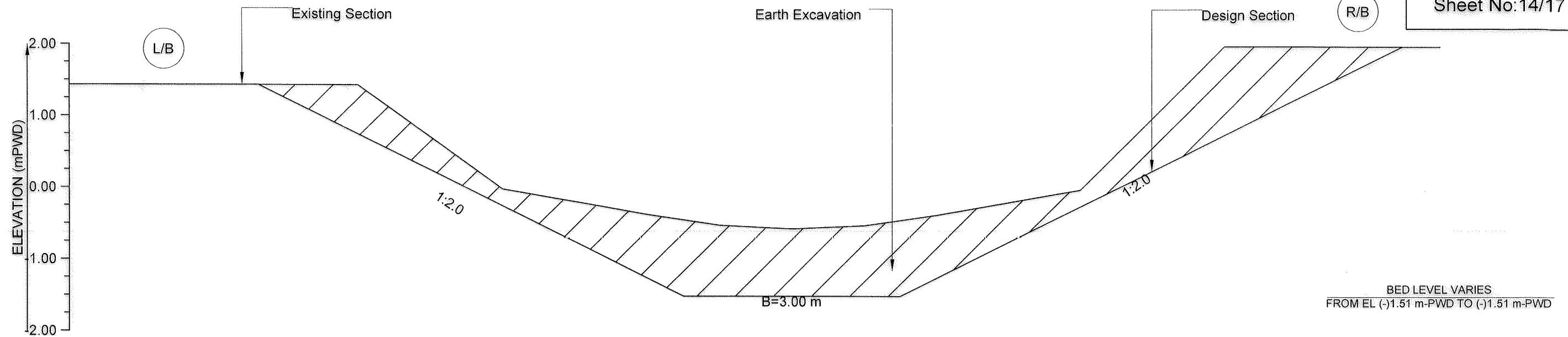
CHECKED AND RECOMMENDED BY:  
*[Signature]*  
(MD. KAMARUL HASAN), EE

APPROVED BY:  
*[Signature]*  
(JAKARIA PERVEZ), SE

Date:04/02/2025

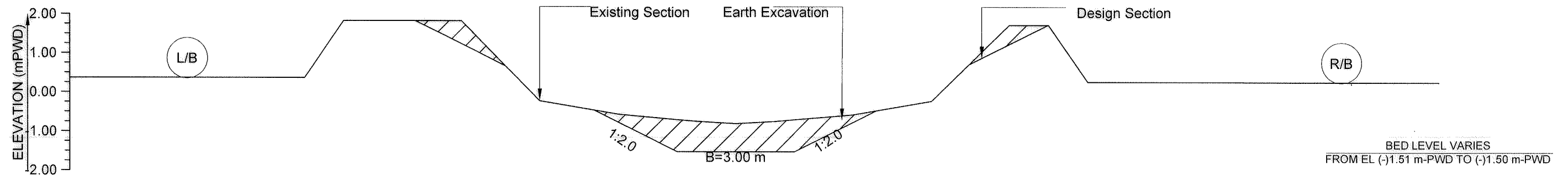
Drawing No:DC5-5786-13/17





Design Bed Level in (mPWD)																		
Existing Bed Level in (mPWD)	1.431		1.428		1.426		0.292	-0.026		-0.374	-0.450	-0.510	-0.574	-0.529	-0.456	-0.382	-0.025	0.965
Distance(m)	0.000	2.625	4.000	5.562	6.000	8.000	8.500	9.000	10.000	11.000	11.500	12.000	14.000	14.987	16.000	18.474	19.000	

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 1.800  
APPLICABLE FROM KM 1.750 TO KM 1.850



Design Bed Level in (mPWD)																		
Existing Bed Level in (mPWD)	0.369	0.364	1.830	1.826	-0.217	-0.451	-0.556	-0.596	-0.691	-0.736	-0.791	-0.737	-0.694	-0.605	-0.566	-0.462	-0.218	1.734
Distance(m)	0.000	6.000	7.000	10.000	12.000	13.383	14.000	14.441	15.500	16.000	17.000	18.000	18.500	19.548	20.000	20.595	22.000	24.000

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 1.900  
APPLICABLE FROM KM 1.850 TO KM 1.950

Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

Re-excavation of Bhangar khal from km. 0.000 to km. 2.682 in polder -2  
in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under  
Specialized Division. BWDB, Gopalganj during the year 2024-2025.

TYPICAL CROSS SECTION OF BHANGAR KHAL

DESIGNED BY:  
*[Signature]*  
(MD. MOSTAFA KAMAL), AE

APPROVED BY:

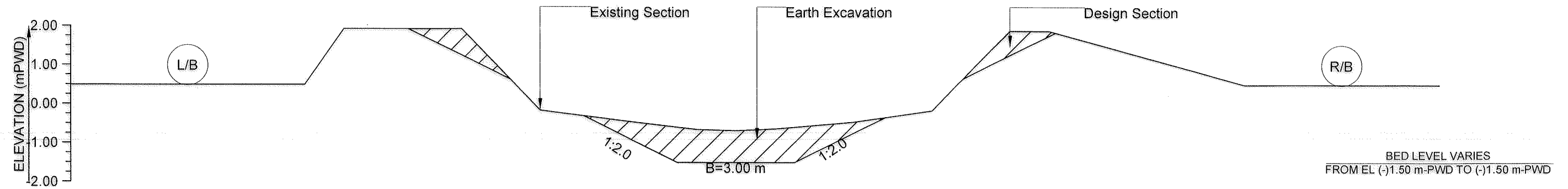
*[Signature]*  
04.02.25

CHECKED AND RECOMMENDED BY:  
*[Signature]*  
(MD. KAMARUL HASAN), EE

(JAKARIA PERVEZ), SE

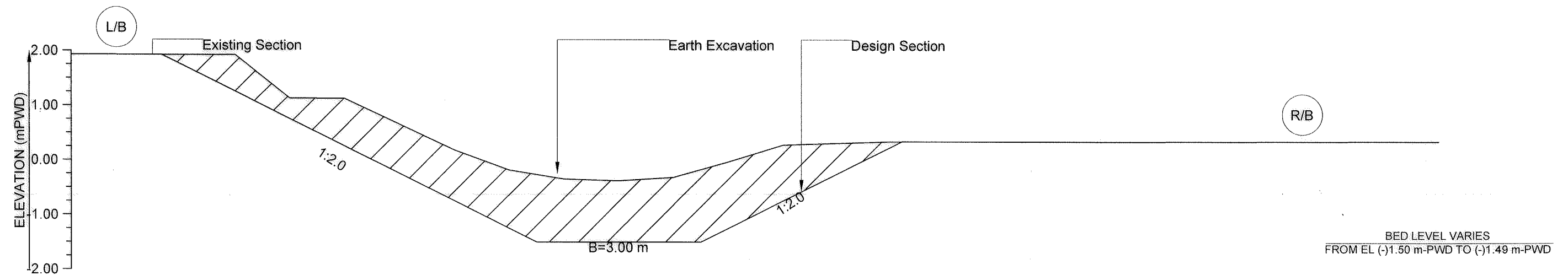
Date: 04/02/2025

Drawing No: DC5-5786-14/17



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	0.489	10.000
	0.483	16.000
	1.934	17.000
	1.926	18.000
	(-0.166)	19.000
	(-0.305)	20.000
	(-0.417)	21.000
	(-0.453)	22.000
	(-0.596)	23.000
	(-0.655)	24.000
	(-0.666)	25.000
	(-0.594)	26.000
	(-0.637)	27.000
	(-0.495)	28.000
	(-0.466)	29.000
	(-0.345)	30.000
	(-0.167)	31.000
	1.880	32.000
	1.884	33.000
	0.494	34.000
		35.000

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 2.000  
APPLICABLE FROM KM 1.950 TO KM 2.050



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	1.929	0.000
	1.923	0.654
	1.918	1.000
	1.125	1.000
	1.119	1.000
	0.178	7.000
	-0.187	8.000
	-0.269(-)1.500	1.500
	-0.351	2.000
	-0.381(-)1.500	0.000
	-0.322	1.000
	-0.179(-)1.500	1.500
	-0.036	2.000
	0.274	3.000
	0.284	3.336
	0.336	5.000
	0.336	5.172
	0.339	10.000
	0.349	16.000

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 2.100  
APPLICABLE FROM KM 2.050 TO KM 2.150


Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5


CRISP-WRM

Re-excavation of Bhangar khal from km. 0.000 to km. 2.682 in polder -2  
in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under  
Specialized Division. BWDB, Gopalganj during the year 2024-2025.

TYPICAL CROSS SECTION OF BHANGAR KHAL

DESIGNED BY:  09.02.25  
(MD.MOSTAFA KAMAL),AE

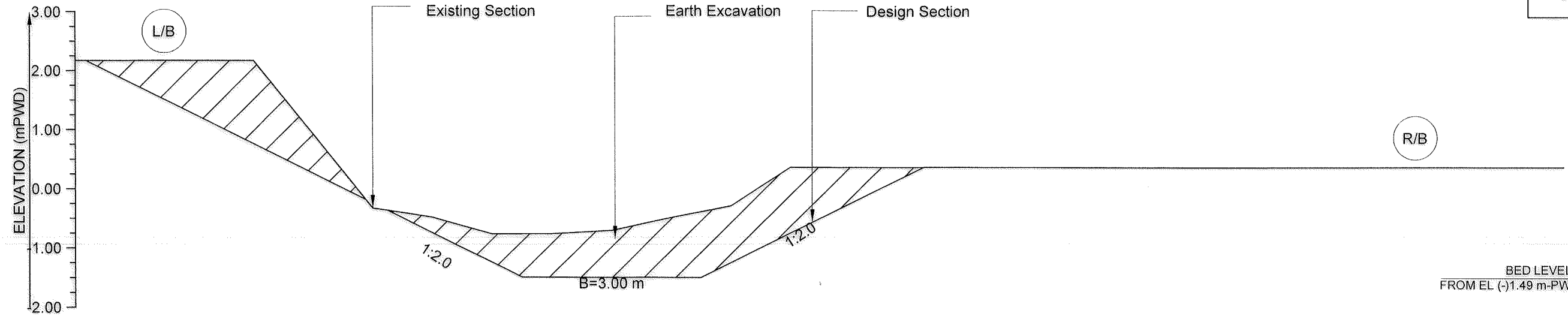
APPROVED BY:

CHECKED AND RECOMMENDED BY:  
  
 (MD. KAMARUL HASAN), EE

04.02.25.  
(JAKARIA PERVEZ),SE

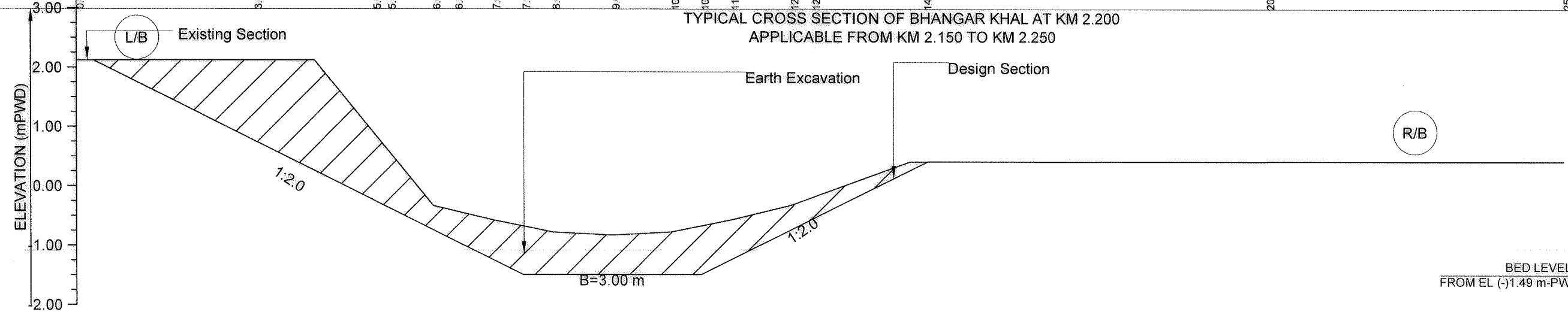
Date:04/02/2025

Drawing No: DC**5**-5786-15/17



Design Bed Level in (mPWD)																			
Existing Bed Level in (mPWD)	2.168																		0.363
Distance(m)	0.000	3.000	5.000	5.249	6.000	6.375	7.000	7.500	8.000	9.000	10.000	10.500	11.000	12.000	12.364	14.229	20.000	25.000	

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 2.200  
APPLICABLE FROM KM 2.150 TO KM 2.250



Design Bed Level in (mPWD)																			
Existing Bed Level in (mPWD)	2.118	2.118																	0.418
Distance(m)	0.000	0.283	3.892	6.000	7.000	7.500	8.000	9.000	10.000	10.500	11.000	12.000	12.398	14.000	14.296	20.000	25.000		

TYPICAL CROSS SECTION OF BHANGAR KHAL AT KM 2.300  
APPLICABLE FROM KM 2.250 TO KM 2.350

Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

Re-excavation of Bhangar khal from km. 0.000 to km. 2.682 in polder -2  
in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under  
Specialized Division. BWDB, Gopalganj during the year 2024-2025.

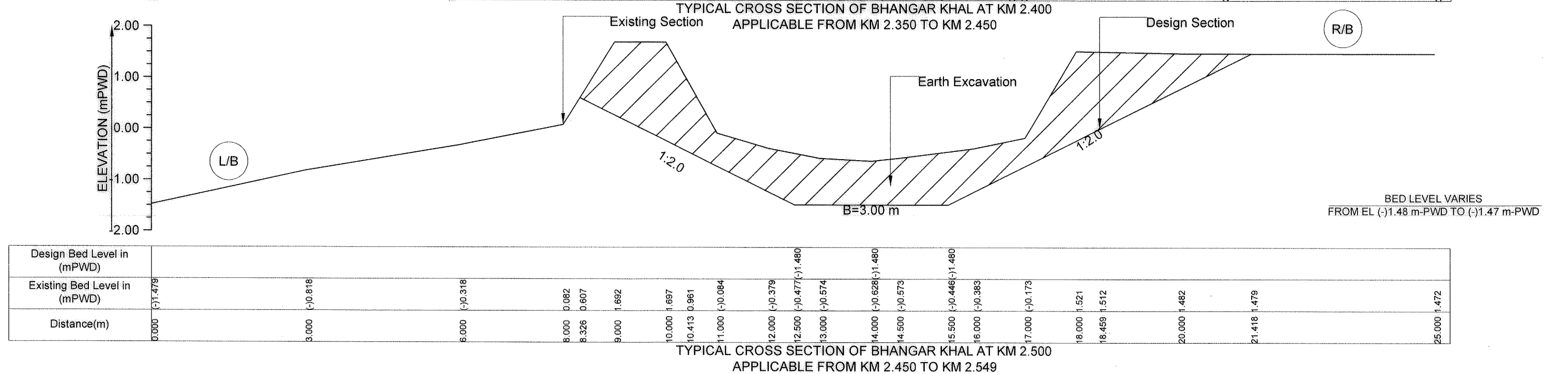
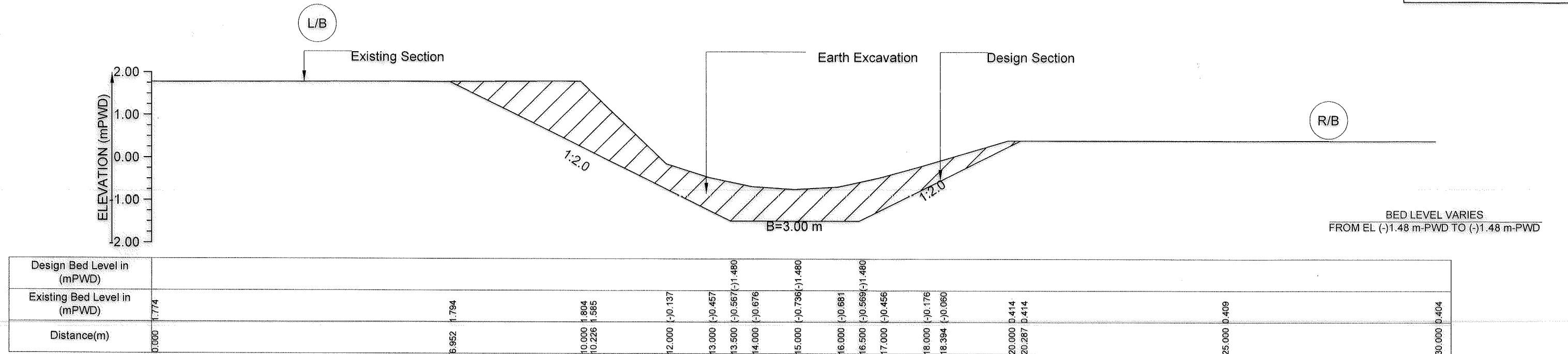
TYPICAL CROSS SECTION OF BHANGAR KHAL

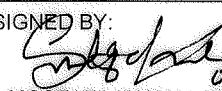


DESIGNED BY:  
*(Signature)*  
(MD. MOSTAFA KAMAL), AE  
CHECKED AND RECOMMENDED BY:  
*(Signature)*  
(MD. KAMARUL HASAN), EE

APPROVED BY:  
*(Signature)*  
(JAKARIA PERVEZ), SE

Date: 04/02/2025

Drawing No: DC5-5786-16/17



Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
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TYPICAL CROSS SECTION OF BHANGAR KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMARUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5786-17/17