

Bangladesh Water Development Board

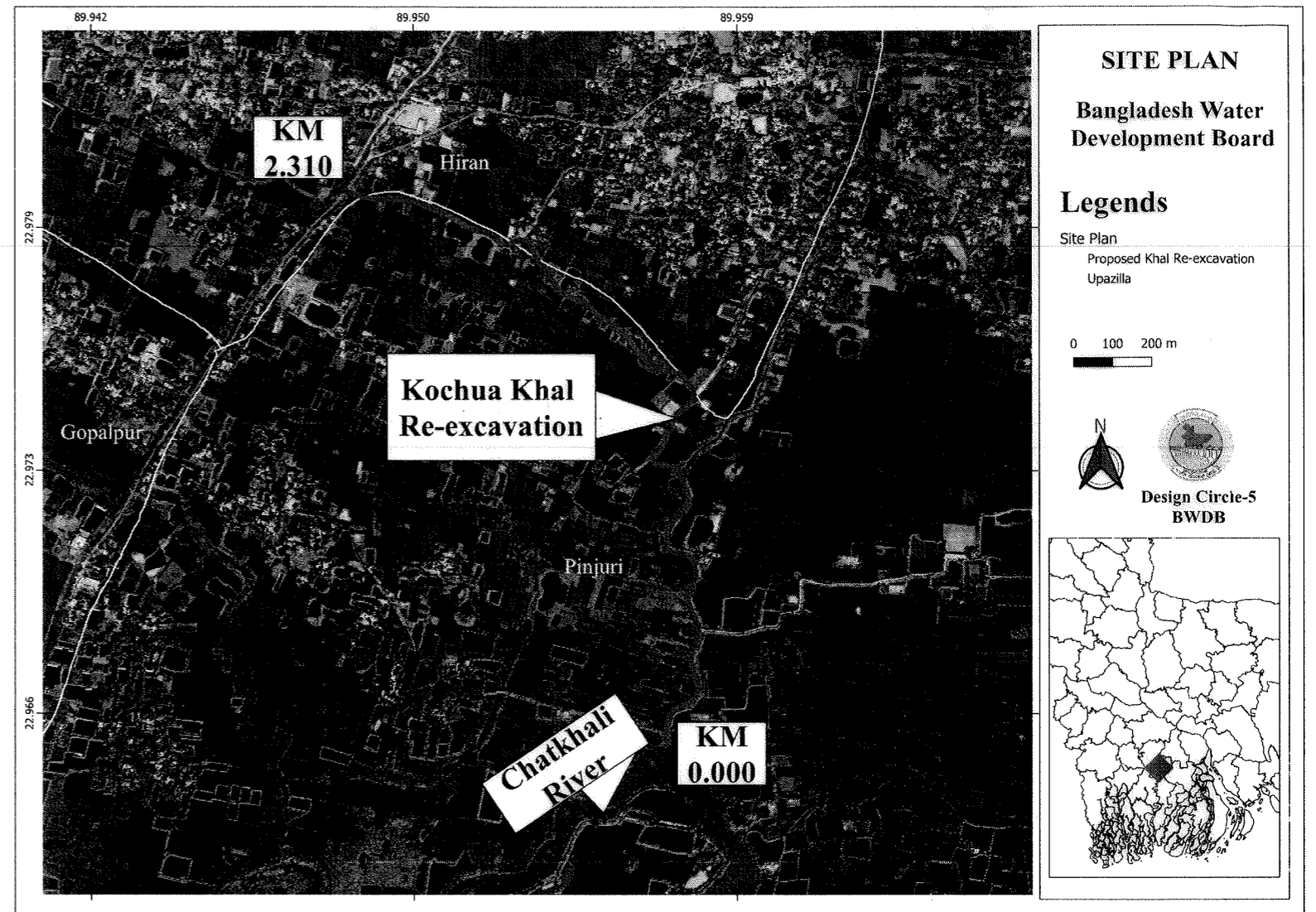
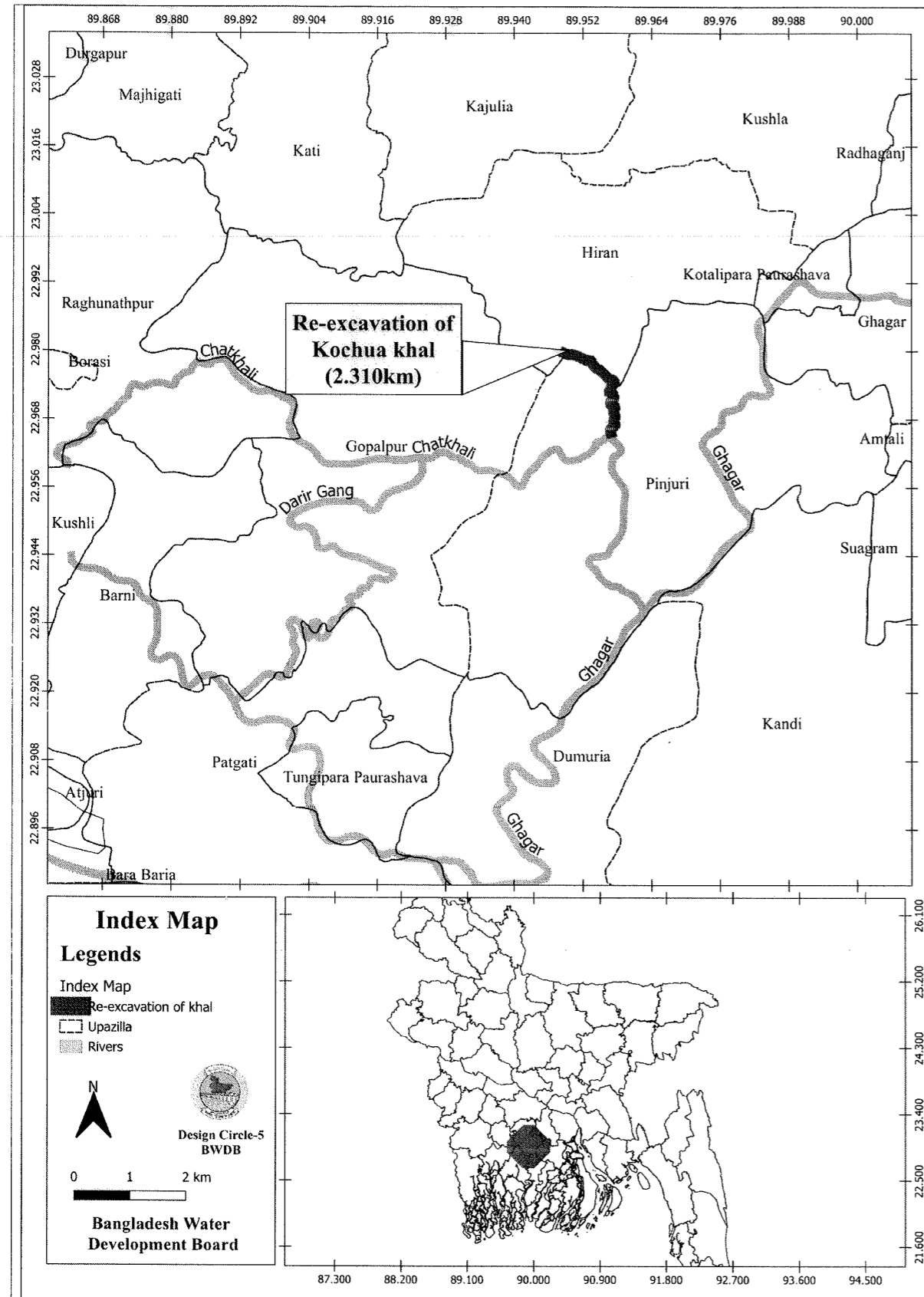
CRISP-WRM

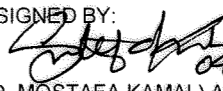

Re-excavation of Kochua khal from km. 0.000 to km. 2.310 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025

SMO, IDWRM-KT

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 Kochua khal from km. 0.000 to km. 2.310 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
INDEX MAP & SITE MAP FOR KOCHUA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL),AE	APPROVED BY:  (JAKARIA PERVEZ),SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN),EE	
Date:04/02/2025	Drawing No:DC5-5784-01/14

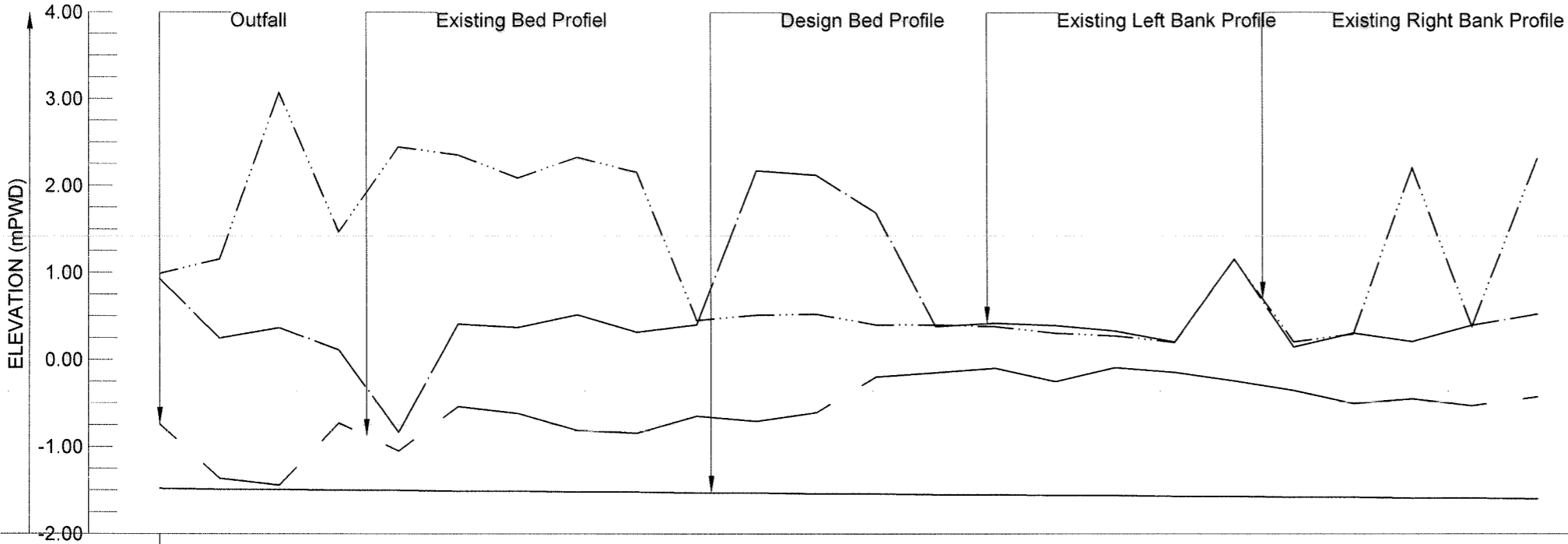
Adminstrative Notes. :

- 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/OFTAKE 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 THROUGHTOUT 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.

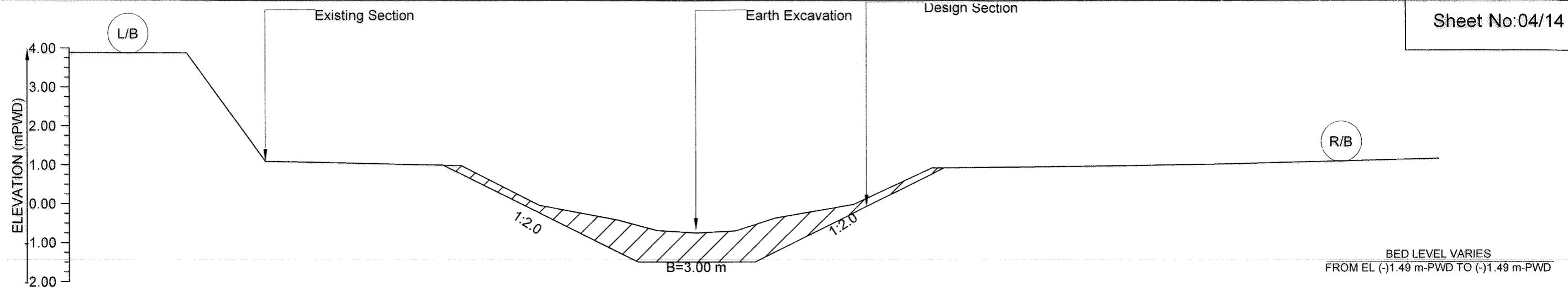
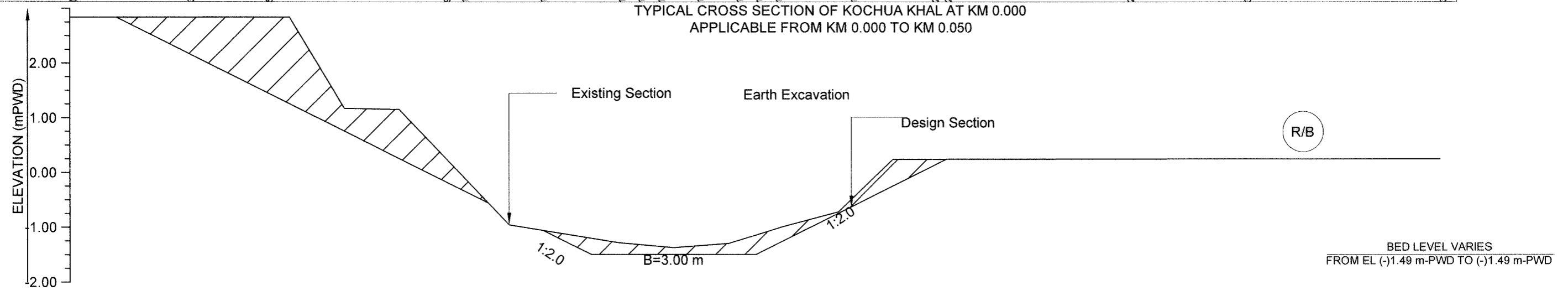
Bangladesh Water Developopment Board	
Office of The Superintending Engineer,Design Circle-5	
CRISP-WRM	
Re-excavation of Kochua khal from km. 0.000 to km. 2.310 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
NOTES FOR KOCHUA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL),AE	APPROVED BY:  (JAKARIA PERVEZ),SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN),EE	
Date:04/02/2025	Drawing No:DC5-5784-02/14



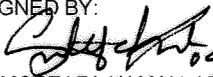



Distance(Km)	Existing Right Bank Level (mPWD)	Existing Left Bank Level (mPWD)	Existing Bed Level (mPWD)	Design Bed Level (mPWD)	Design Bed Width(m)
0.000	0.929	0.989	(-)0.741	(-)1.480	-2.00
0.100	0.246	1.156	(-)1.364	(-)1.490	
0.200	0.368	3.073	(-)1.442		
0.300	0.111	1.466	(-)0.729	(-)1.500	
0.400	(-)0.834	2.446	(-)1.050		
0.500	0.409	2.355	(-)0.540	(-)1.510	
0.600	0.370	2.090	(-)0.620		
0.700	0.516	2.326	(-)0.814	(-)1.520	
0.800	0.314	2.154	(-)0.846		
0.900	0.401	0.452	(-)0.648	(-)1.530	
1.000	2.174	0.513	(-)0.707		
1.100	2.123	0.523	(-)0.607	(-)1.540	
1.200	1.692	0.402	(-)0.198		
1.300	0.382		(-)0.148	(-)1.550	
1.400	0.422	0.382	(-)0.098		
1.500	0.393	0.303	(-)0.252	(-)1.560	
1.600	0.328	0.272	(-)0.092		
1.700	0.204	0.199	(-)0.145	(-)1.570	
1.800	1.157	1.155	(-)0.245		
1.900	0.145	0.206	(-)0.352	(-)1.580	
2.000	0.306	0.295	(-)0.504		
2.100	0.209	2.209	(-)0.451	(-)1.590	
2.200	0.394	0.379	(-)0.531		
2.310	0.523	2.313	(-)0.427	(-)1.600	

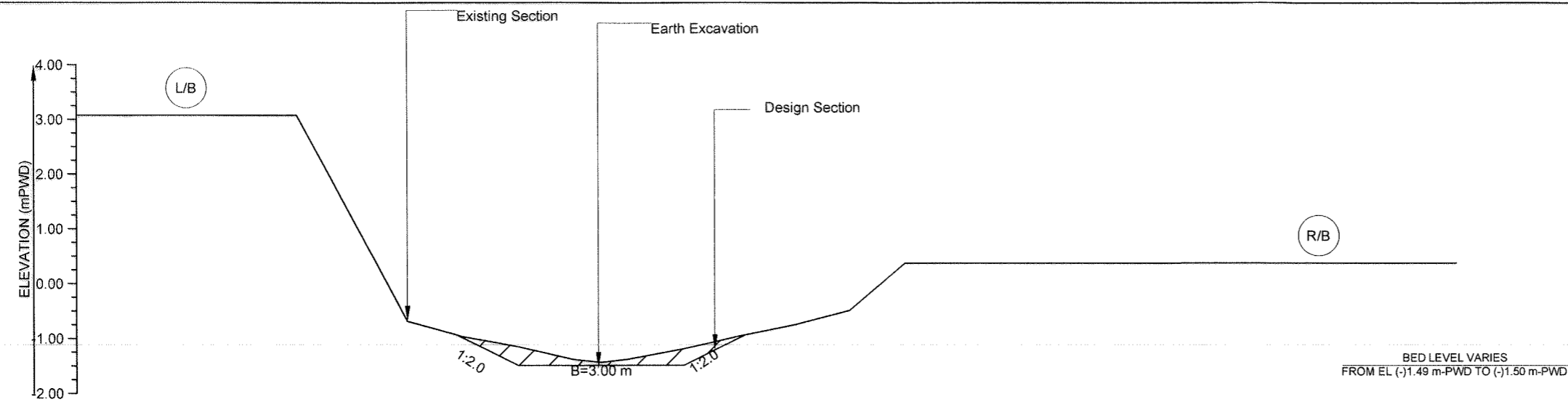
LONG SECTION OF KOCHUA KHAL APPLICABLE FROM KM 0.000 TO KM 2.310

Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
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LONG SECTION OF KOCHUA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5784-03/14

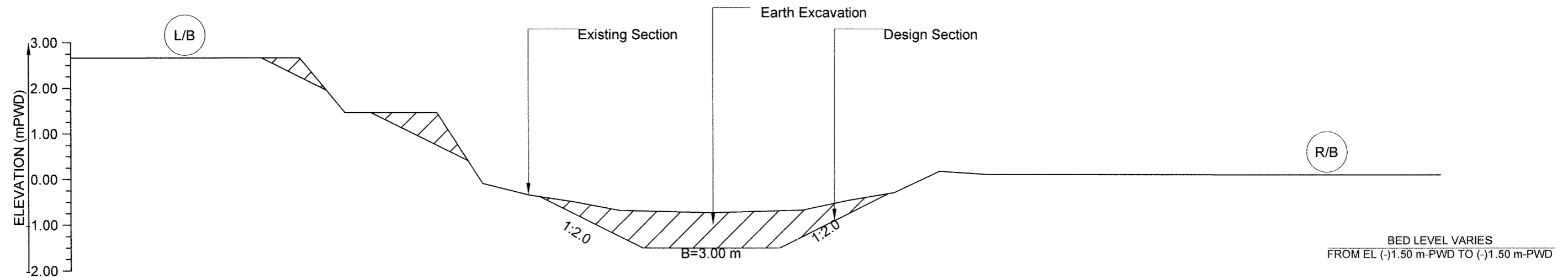
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TYPICAL CROSS SECTION OF KOCHUA KHAL AT KM 0.100
APPLICABLE FROM KM 0.050 TO KM 0.150

<p align="center">Bangladesh Water Development Board</p>	
<p align="center">Office of The Superintending Engineer, Design Circle-5</p>	
<p align="center">CRISP-WRM</p>	
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<p align="center">TYPICAL CROSS SECTION OF KOCHUA KHAL</p>	
<p>DESIGNED BY:  (MD. MOSTAFA KAMAL), AE</p>	<p>APPROVED BY:  (JAKARIA PERVEZ), SE</p>
<p>CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE</p>	<p> (JAKARIA PERVEZ), SE</p>
<p>Date: 04/02/2025</p>	<p>Drawing No: DC5-5784-04/14</p>


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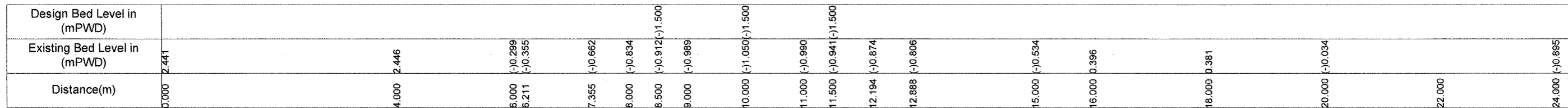
TYPICAL CROSS SECTION OF KOCHUA KHAL AT KM 0.200
APPLICABLE FROM KM 0.150 TO KM 0.250



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	2.661
Distance(m)	0.000
	5.000
	10.000
	15.000
	20.000
	25.000
	30.000
	35.000
	40.000
	45.000
	50.000
	55.000
	60.000
	65.000
	70.000
	75.000
	80.000
	85.000
	90.000
	95.000
	100.000
	105.000
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	750.000
	755.000
	760.000
	765.000
	770.000
	775.000
	780.000
	785.000
	790.000
	795.000
	800.000
	805.000</

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

<p align="center">Bangladesh Water Development Board</p>	
<p align="center">Office of The Superintending Engineer, Design Circle-5</p>	
<p align="center">CRISP-WRM</p>	
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<p align="center">TYPICAL CROSS SECTION OF KOCHUA KHAL</p>	
<p>DESIGNED BY:</p>  <p align="right">04.02.25</p> <p>(MD. MOSTAFA KAMAL), AE</p>	<p>APPROVED BY:</p>  <p align="right">04.02.25</p> <p>(JAKARIA PERVEZ), SE</p>
<p>CHECKED AND RECOMMENDED BY:</p>  <p>(MD. KAMRUL HASAN), EE</p>	
<p>Date: 04/02/2025</p>	<p>Drawing No: DC5-5784-05/14</p>



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

ELEVATION (mPWD)

Existing Section

Design Section

Earth Excavation

L/B

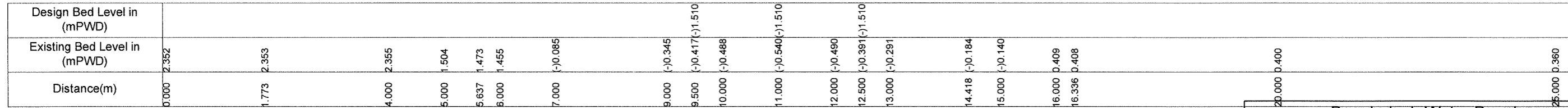
R/B


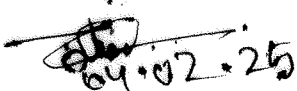

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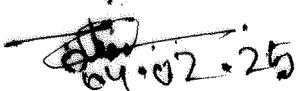

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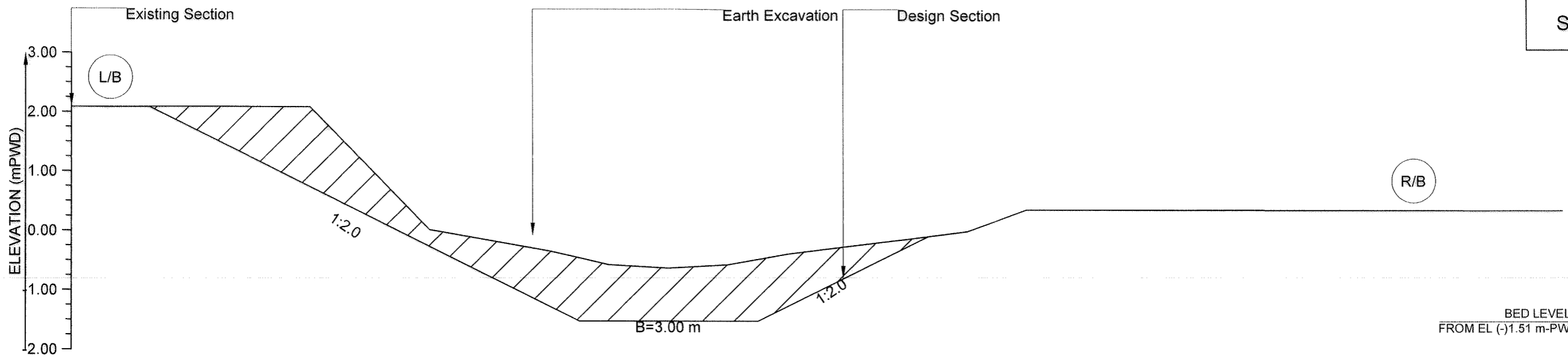
B=3.00 m

BED LEVEL
FROM EL (-)1.51 m-PWD



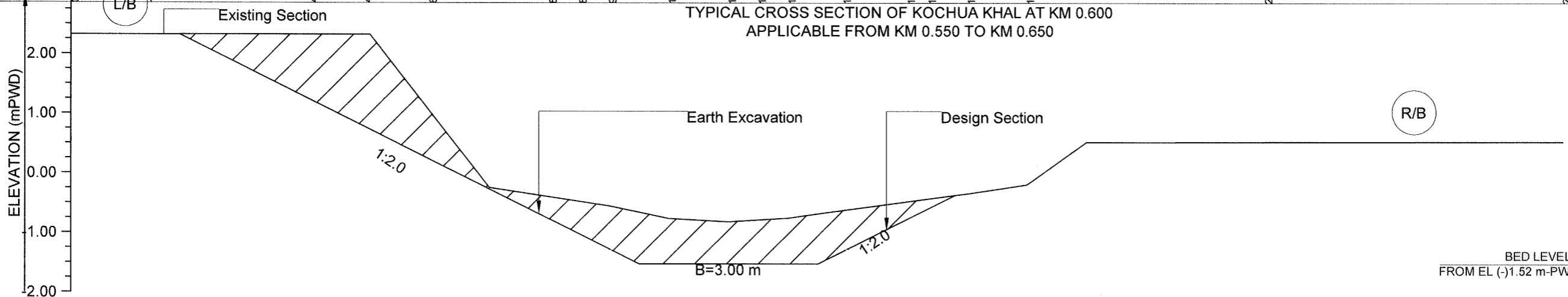
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TYPICAL CROSS SECTION OF KOCHUA KHAL	
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CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5784-06/14

Bangladesh Water Development Board	
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CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5784-06/14






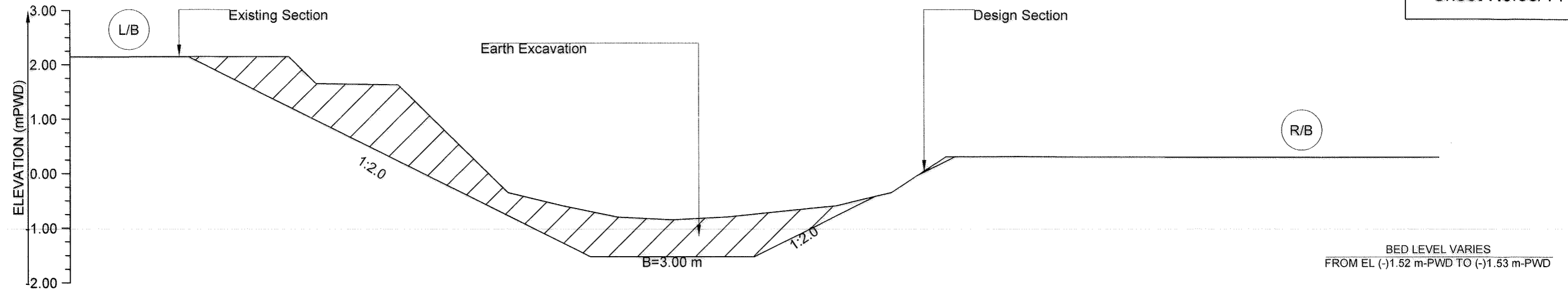
Distance(m)	Existing Bed Level in (mPWD)	Design Bed Level in (mPWD)
3.00	2.085	
4.00	2.087	
4.903	2.090	
6.000	1.155	
6.000	0.020	
8.000	(-0.331)	
8.500	(-0.447)	(-1.510)
9.000	(-0.562)	
10.000	(-0.620)	(-1.510)
11.000	(-0.551)	
11.500	(-0.471)	(-1.510)
12.000	(-0.380)	
12.925	(-0.265)	
14.000	(-0.131)	
14.350	(-0.085)	
15.000	0.000	
16.000	0.370	
20.000	0.365	
25.000	0.355	

TYPICAL CROSS SECTION OF KOCHUA KHAL AT KM 0.600
APPLICABLE FROM KM 0.550 TO KM 0.650

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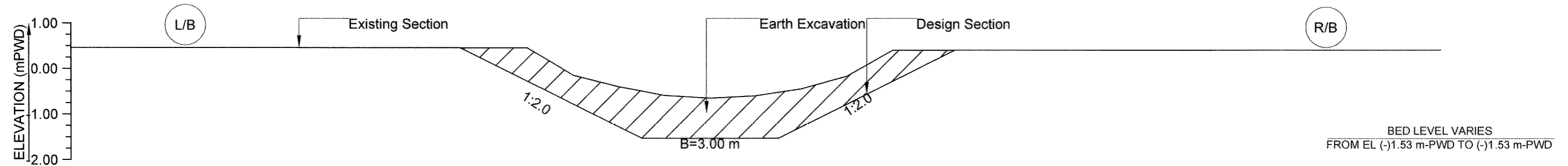
TYPICAL CROSS SECTION OF KOCHUA KHAL AT KM 0.700
APPLICABLE FROM KM 0.650 TO KM 0.750

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CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5784-07/14





Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	2.144
Distance(m)	0.000
	2.149
	2.154
	1.654
	1.632
	1.629
	-0.346
	-0.591
	-0.684 (-1.520)
	-0.797
	-0.846 (-1.520)
	-0.794
	-0.742 (-1.520)
	-0.627
	-0.586
	-0.416
	0.314
	0.309
	0.304

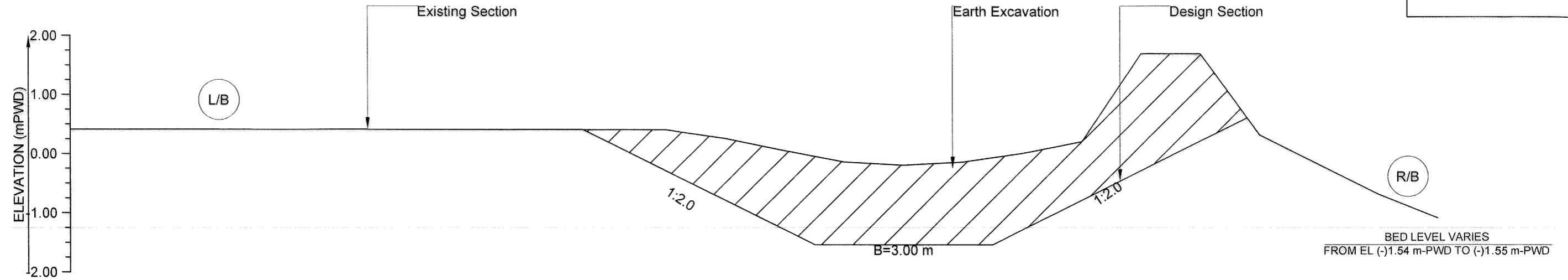
TYPICAL CROSS SECTION OF KOCHUA KHAL AT KM 0.800
APPLICABLE FROM KM 0.750 TO KM 0.850



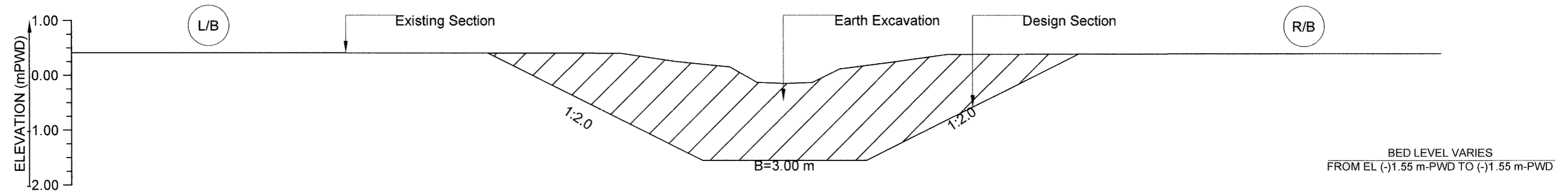
Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	0.462	0.000
	0.459	5.000
	0.454	10.532
	0.452	16.000
	0.142	0.516
	-0.148	1.000
	-0.399	2.000
	-1.530	2.500
	-0.593	3.000
	-1.530	4.000
	-0.598	5.000
	-1.530	5.500
	-0.446	6.000
	-0.168	7.000
	0.078	7.432
	0.401	8.000
	0.402	9.364
	0.407	15.000
	0.412	20.000

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

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Date: 04/02/2025	Drawing No: DC5-5784-08/14

[illegible]

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

[illegible]

TYPICAL CROSS SECTION OF KOCHUA 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

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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 KOCHUA KHAL

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

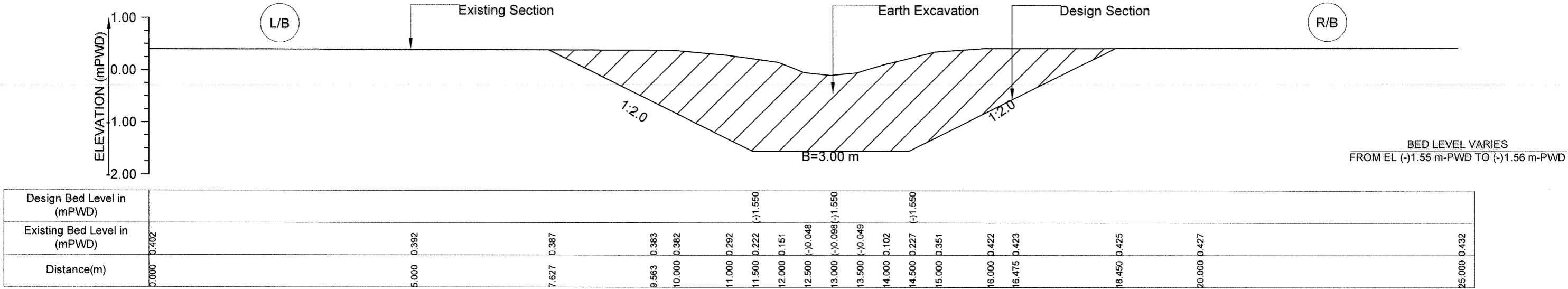
APPROVED BY:

CHECKED AND RECOMMENDED BY:

 (MD. KAMRUL HASAN), EE

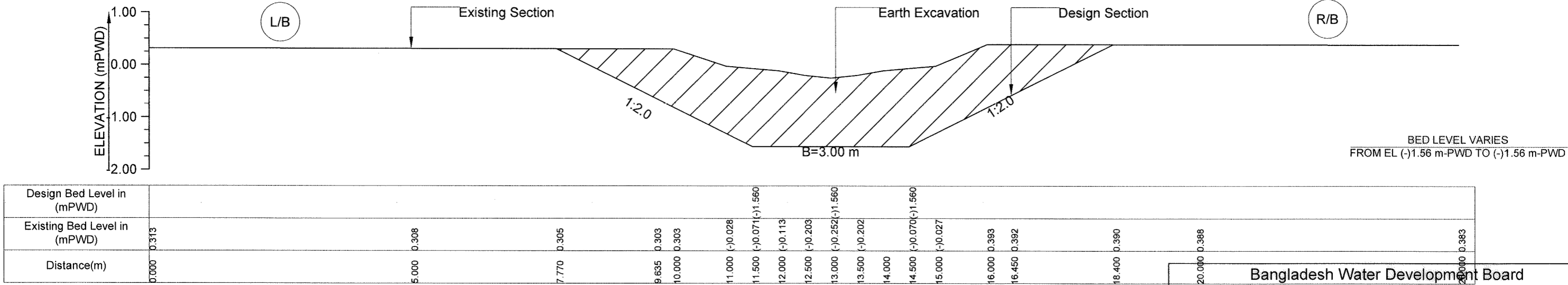
(JAKARIA PERVEZ), SE

Date:04/02/2025




Drawing No:DC5-5784-09/14

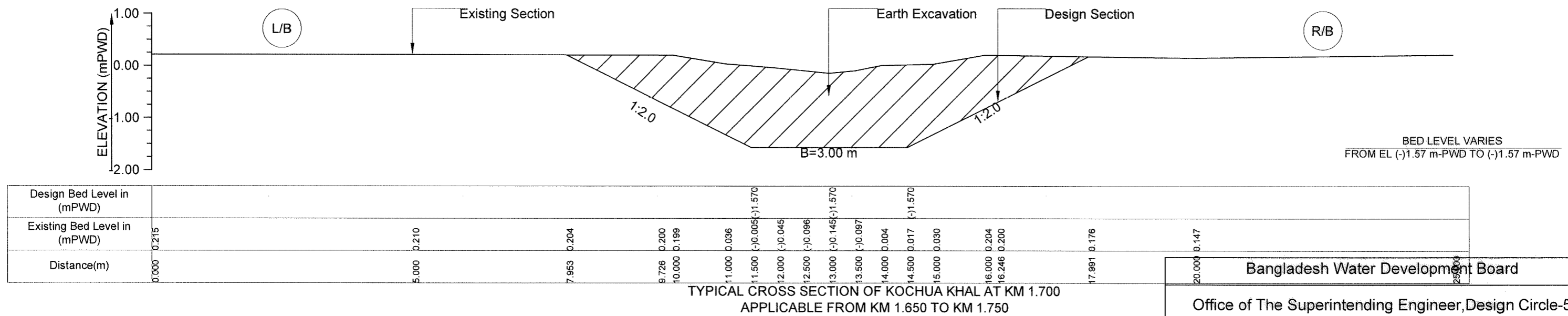
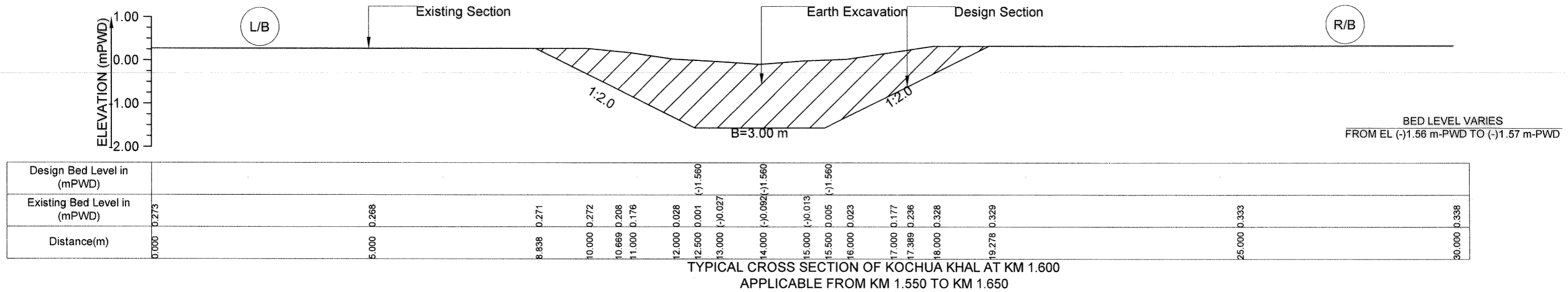





TYPICAL CROSS SECTION OF KOCHUA KHAL AT KM 1.400
APPLICABLE FROM KM 1.350 TO KM 1.450

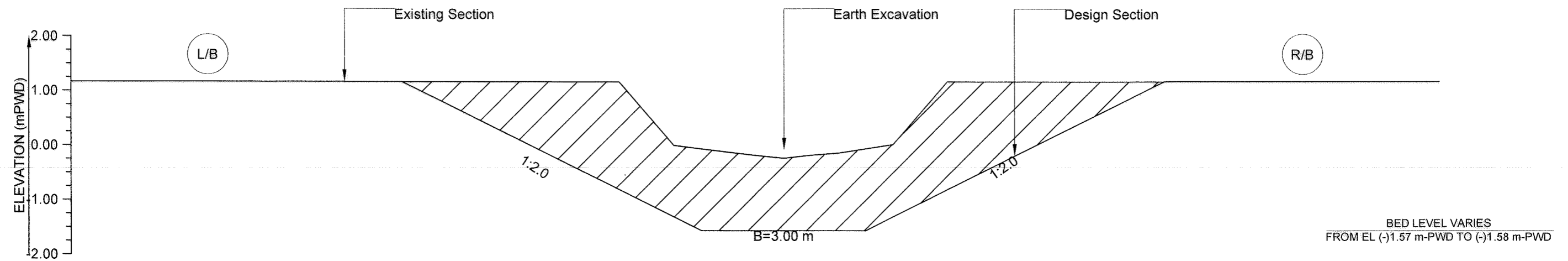


TYPICAL CROSS SECTION OF KOCHUA KHAL AT KM 1.500
APPLICABLE FROM KM 1.450 TO KM 1.550

Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
Re-excavation of Kochua khal from km. 0.000 to km. 2.310 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 KOCHUA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5784-10/14

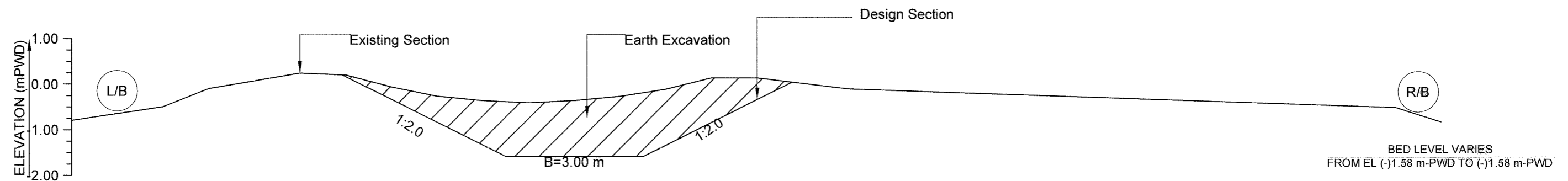


Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
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TYPICAL CROSS SECTION OF KOCHUA KHAL	
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CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5784-11/14






Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	1.165
Distance(m)	0.000
	5.000 1.160
	8.042 1.159
	8.771 1.156
	10.000 1.155
	11.000 (-0.010)
	11.500 (-0.073)(-1.570)
	12.000 (-0.135)
	12.500 (-0.195)
	13.000 (-0.245)(-1.570)
	13.500 (-0.190)
	14.000 (-0.150)
	14.500 (-)NaN (-1.570)
	15.000 0.005
	16.000 1.157
	17.230 1.158
	19.960 1.160
	25.000

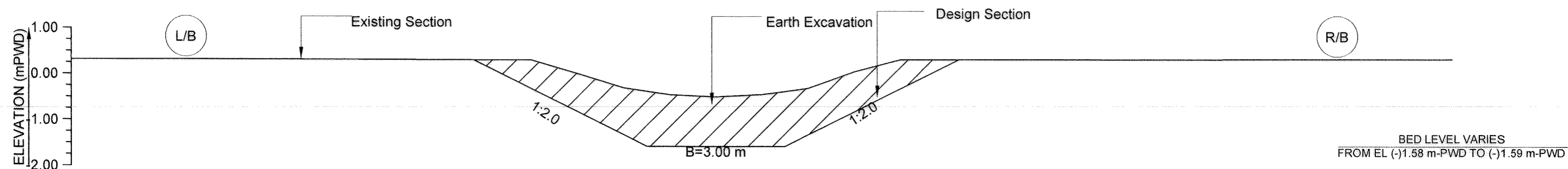
TYPICAL CROSS SECTION OF KOCHUA KHAL AT KM 1.800
APPLICABLE FROM KM 1.750 TO KM 1.850



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	(-)0.794	0.000
	(-)0.494	0.000
	(-)0.094	0.000
	0.245	0.000
	0.209	0.000
	(-)0.055	0.000
	(-)0.201	0.000
	(-)0.260	0.000
	(-)0.355	0.000
	(-)0.380(-)1.580	0.500
	(-)0.404	0.000
	(-)0.352(-)1.580	1.100
	(-)0.259	0.000
	(-)0.182(-)1.580	0.500
	(-)0.104	0.000
	0.145	0.000
	0.144	0.000
	0.053	0.000
		0.000
		0.000
	(-)0.809	0.000

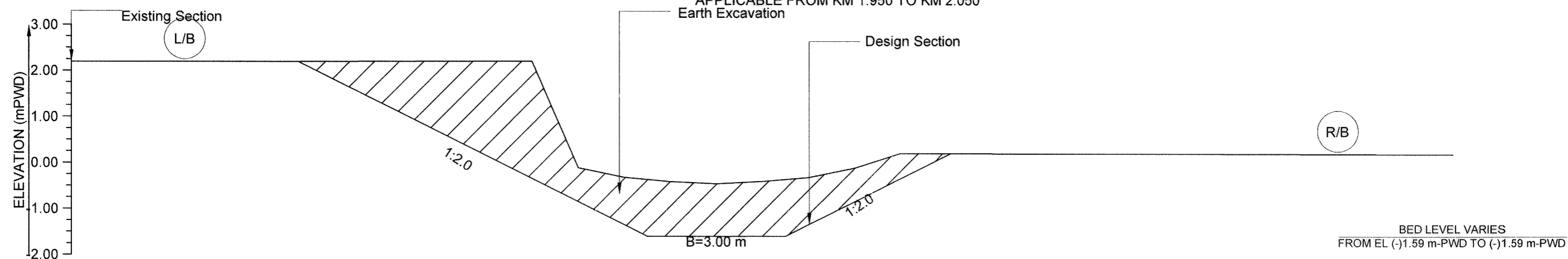
TYPICAL CROSS SECTION OF KOCHUA KHAL AT KM 1.900
APPLICABLE FROM KM 1.850 TO KM 1.950

Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
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TYPICAL CROSS SECTION OF KOCHUA KHAL	
DESIGNED BY:  04.02.25 (MD. MOSTAFA KAMAL), AE	APPROVED BY:  04.02.25 (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5784-12/14






Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	0.316	0.000
	0.311	0.000
	0.299	0.742
	0.295	0.000
	0.109	0.621
	-0.004	1.000
	-0.309	2.000
	-0.383 (-) 1.580	2.500
	-0.456	3.000
	-0.504 (-) 1.580	4.000
	-0.455	5.000
	-0.387 (-) 1.580	5.500
	-0.319	6.000
	0.045	7.000
	0.146	7.387
	0.306	8.000
	0.307	9.274
		15.000
		20.000

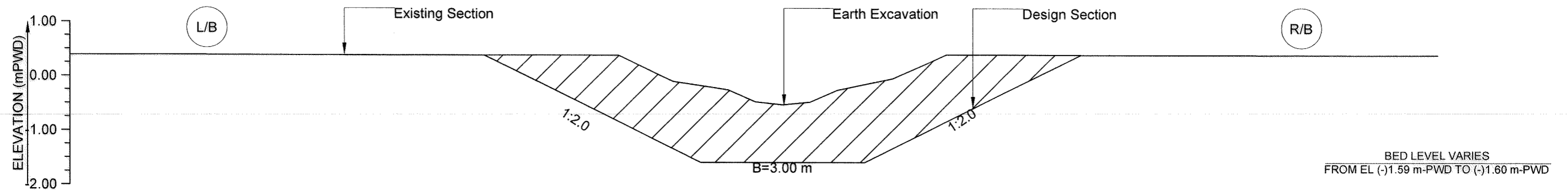
TYPICAL CROSS SECTION OF KOCHUA KHAL AT KM 2.000
APPLICABLE FROM KM 1.950 TO KM 2.050



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
	2.189	0.000
	2.194	4.932
	2.205	8.716
	2.209	10.000
	(-0.106)	11.000
	(-0.311)	12.000
	(-0.359)(-1.590)	12.500
	(-0.406)	13.000
	(-0.451)(-1.590)	14.000
	(-0.401)	15.000
	(-1.590)	15.500
	(-0.316)	16.000
	(-0.111)	17.000
	(-0.016)	17.296
	0.209	18.000
	0.206	19.093
	0.204	20.000
	0.199	25.000
	0.190	30.000

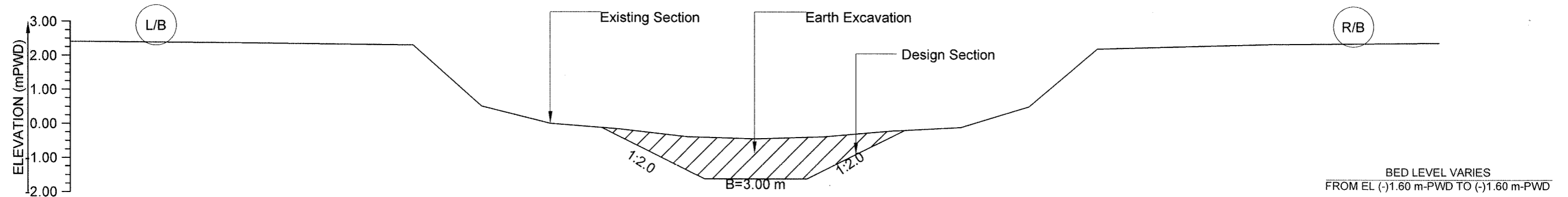
TYPICAL CROSS SECTION OF KOCHUA KHAL AT KM 2.100
APPLICABLE FROM KM 2.050 TO KM 2.150

Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
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TYPICAL CROSS SECTION OF KOCHUA KHAL	
DESIGNED BY:  04.02.25 (MD. MOSTAFA KAMAL), AE	APPROVED BY:  04.02.25 (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 04/02/2025	Drawing No: DC5-5784-13/14

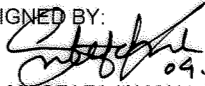




Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	
Distance(m)	
0.000	0.389
5.000	0.384
10.000	0.379
15.000	0.381
20.000	
25.000	
30.000	
35.000	
40.000	
45.000	
50.000	
55.000	
60.000	
65.000	
70.000	
75.000	
80.000	
85.000	
90.000	
95.000	
100.000	
105.000	
110.000	
115.000	
120.000	
125.000	
130.000	
135.000	
140.000	
145.000	
150.000	
160.000	
16.481	0.383
18.462	0.381
20.000	
25.000	

TYPICAL CROSS SECTION OF KOCHUA KHAL AT KM 2.200
APPLICABLE FROM KM 2.150 TO KM 2.255

[illegible]

TYPICAL CROSS SECTION OF KOCHUA KHAL AT KM 2.310
APPLICABLE FROM KM 2.255 TO KM 2.310

<p align="center">Bangladesh Water Development Board</p>	
<p align="center">Office of The Superintending Engineer, Design Circle-5</p>	
<p align="center">CRISP-WRM</p>	
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<p align="center">TYPICAL CROSS SECTION OF KOCHUA KHAL</p>	
<p>DESIGNED BY:  (MD. MOSTAFA KAMAL), AE</p>	<p>APPROVED BY:  (JAKARIA PERVEZ), SE</p>
<p>CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE</p>	
<p>Date: 04/02/2025</p>	<p>Drawing No: DC5-5784-14/14</p>