

Bangladesh Water Development Board

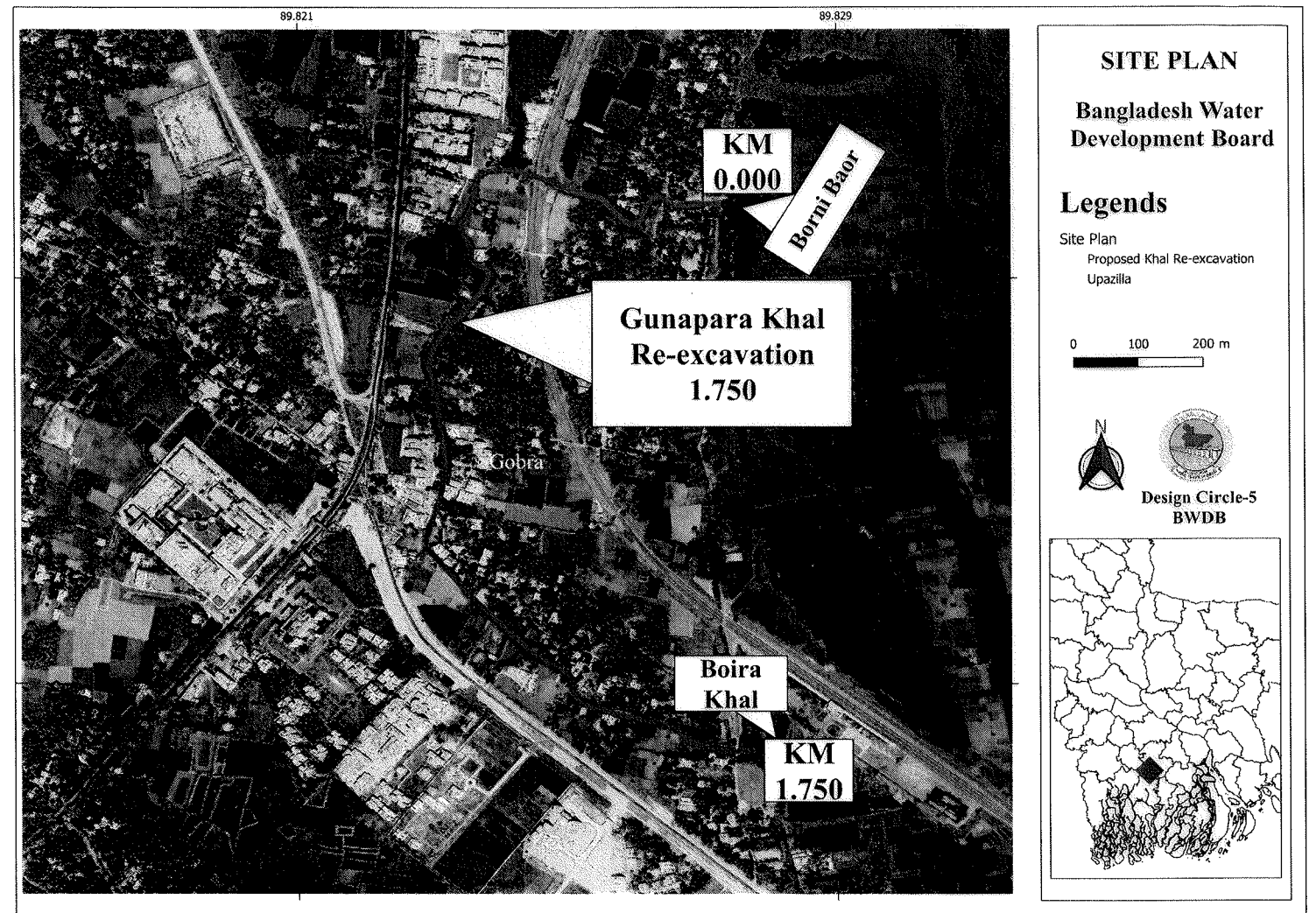
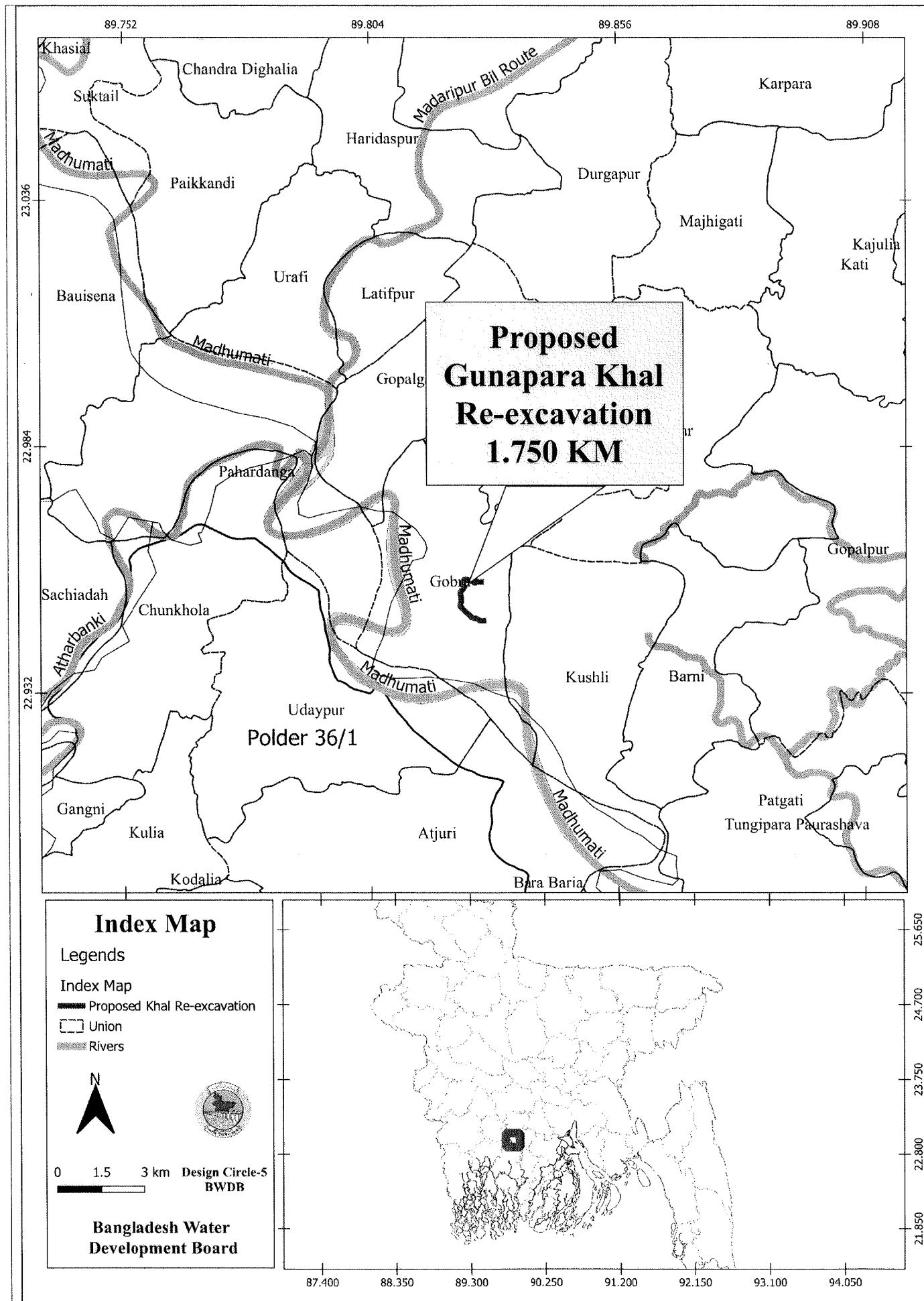
CRISP-WRM



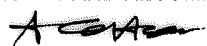
Re-excavation of Gunapara Khal from km. 0.000 to km. 1.750 in polder -1 in c/w Tarail-Pachuria
Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025

SMO, IDWRM-KT

Designed by: Design Circle-5, BWDB, Dhaka

February, 2025




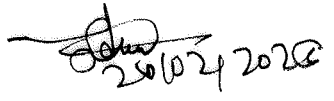

Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
Re-excavation of Gunapara Khal from km. 0.000 to km. 1.750 in polder -1 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
INDEX MAP & SITE MAP FOR GUNAPARA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 23/2/2025	Drawing No: DC5-5794-01/16

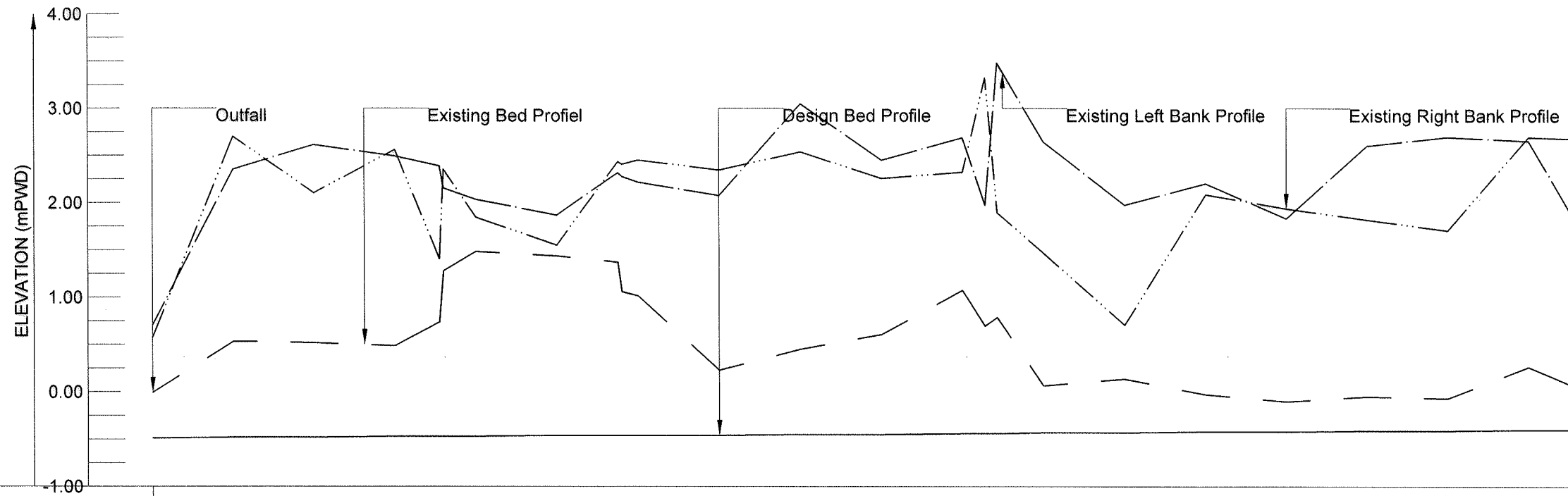
Administrative Notes :

- 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 :

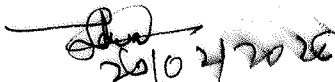

- 1. THIS REVISED DRAWING HAS BEEN PREPARED AS PER PROPOSAL AND DESIGN DATA SUBMITTED BY PD,CRISP-WRM HIS OFFICE MEMO NO-PMO/166; DATE: 28/10/2024.
- 2. THIS RE-REEXCAVATION WORK HAS ALSO BEEN DESIGNED CONSIDERING THE WATER RESERVOIR AS WELL AS FOR IRRIGATION PURPOSE.
- 3. IF THE EXISTING BED LEVEL OF 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.

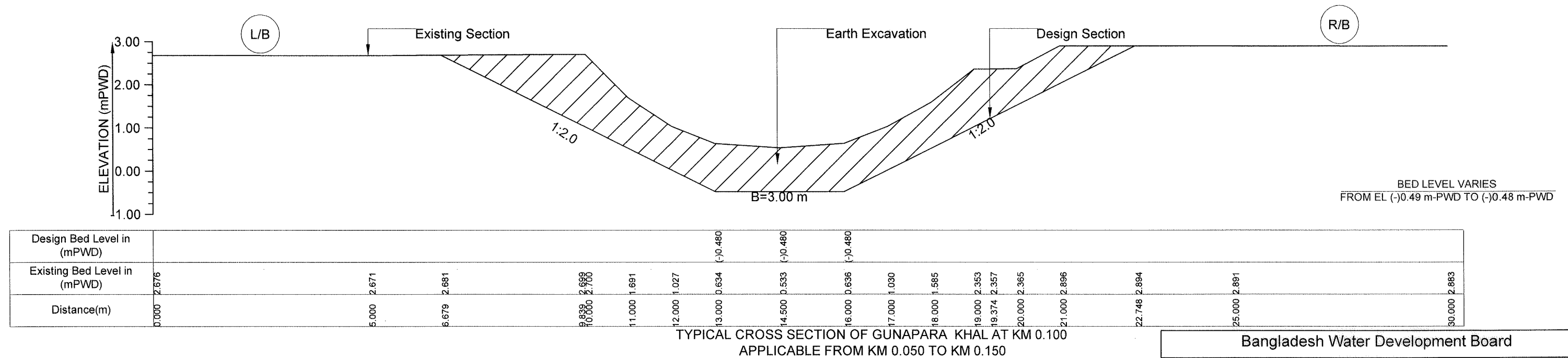
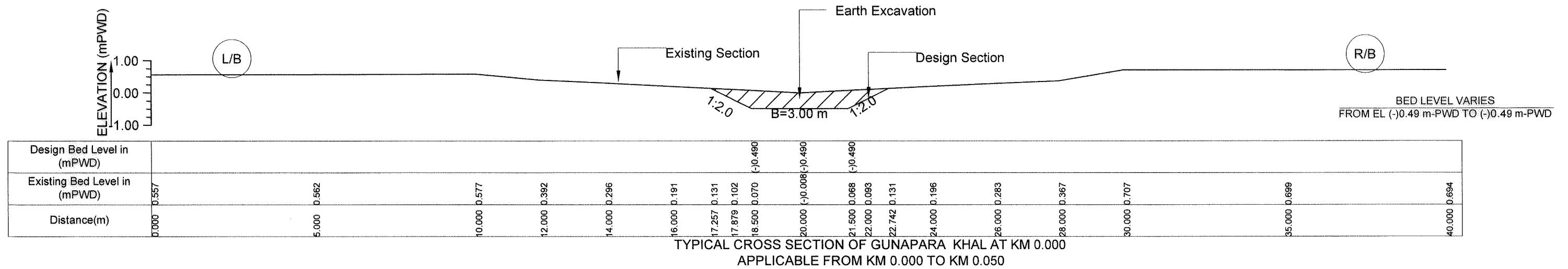
Bangladesh Water Development Board	
Office of The Superintending Engineer,Design Circle-5	
CRISP-WRM	
Re-excavation of Gunapara Khal from km. 0.000 to km. 1.750 in polder -1 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
NOTES FOR GUNAPARA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL),AE	APPROVED BY:  (JAKARIA PERVEZ),SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN),EE	
Date:23/2/2025	Drawing No:DC5-5794-02/16



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	0.707	0.577	-0.008	(-)0.490	-1.00
0.100	2.353	2.700	0.533	(-)0.480	
0.200	2.612	2.101	0.518		
0.300	2.493	2.561	0.487	(-)0.470	
0.355	2.383	2.463	0.728		
0.400	2.034	1.847	1.483		
0.500	1.868	1.550	1.437	(-)0.460	
0.555	2.275	2.484	1.858		
0.600	2.215	2.449	1.013		
0.700	2.075	2.346	0.228		
0.800	3.049	2.537	0.451	(-)0.450	
0.900	2.450	2.257	0.606		
1.000	2.688	2.323	1.073	(-)0.440	
1.028	1.975	3.323	0.987		
1.043	3.483	1.855	0.788		
1.100	2.646	1.469	0.065	(-)0.430	
1.200	1.974	0.706	0.137		
1.300	2.201	2.086	(-)0.029	(-)0.420	
1.400	1.833	1.937	(-)0.103		
1.500	2.603	1.820	(-)0.049	(-)0.410	
1.600	2.696	1.706	(-)0.070		
1.700	2.653	2.694	0.263	(-)0.400	
1.750	1.912	2.678	0.082		

LONG SECTION OF GUNAPARA KHAL APPLICABLE FROM KM 0.000 TO KM 1.750

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LONG SECTION OF GUNAPARA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  20/04/2026 (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 23/2/2025	Drawing No: DC5-5794-03/16



Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

Re-excavation of Gunapara Khal from km. 0.000 to km. 1.750 in polder
-1 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under
Specialized Division. BWDB, Gopalganj during the year 2024-2025

TYPICAL CROSS SECTION OF GUNAPARA KHAL

DESIGNED BY:

(MD. MOSTAFA KAMAL), AE

CHECKED AND RECOMMENDED BY:

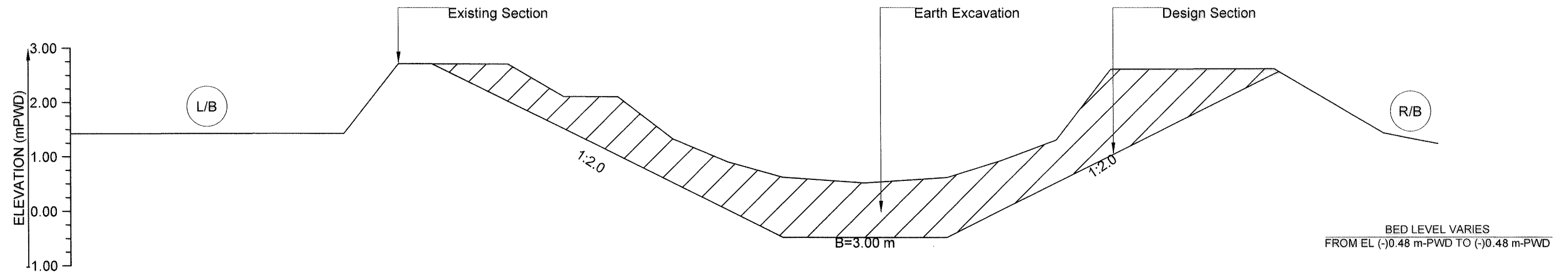
(MD. KAMRUL HASAN), EE

APPROVED BY:

(JAKARIA PERVEZ), SE

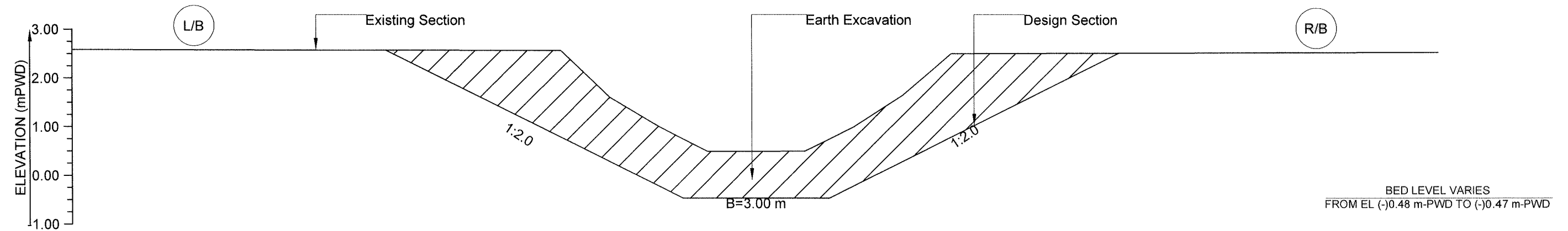
Date:23/2/2025

Drawing No:DC5-5794-04/16



Design Bed Level in (mPWD)																			
Existing Bed Level in (mPWD)	1.421																		
Distance(m)	0.000	5.000	6.000	6.613	8.000	9.000	9.806	10.000	11.000	12.000	13.000	14.500	16.000	17.000	18.000	19.000	22.000	24.000	25.000

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



Design Bed Level in (mPWD)																			
Existing Bed Level in (mPWD)	2.583	2.569	2.567	2.562	2.561	1.596	1.002	0.745	0.488	0.487	0.492	0.742	0.991	1.639	2.493	2.494	2.501	2.505	2.519
Distance(m)	0.000	5.000	6.427	9.463	10.000	11.000	12.000	12.500	13.000	14.000	15.000	15.500	16.000	17.000	18.000	18.471	21.443	23.000	28.000

TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 0.300
APPLICABLE FROM KM 0.250 TO KM 0.328

Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

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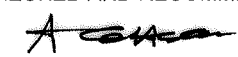
TYPICAL CROSS SECTION OF GUNAPARA KHAL

DESIGNED BY:

(MD. MOSTAFA KAMAL), AE

APPROVED BY:

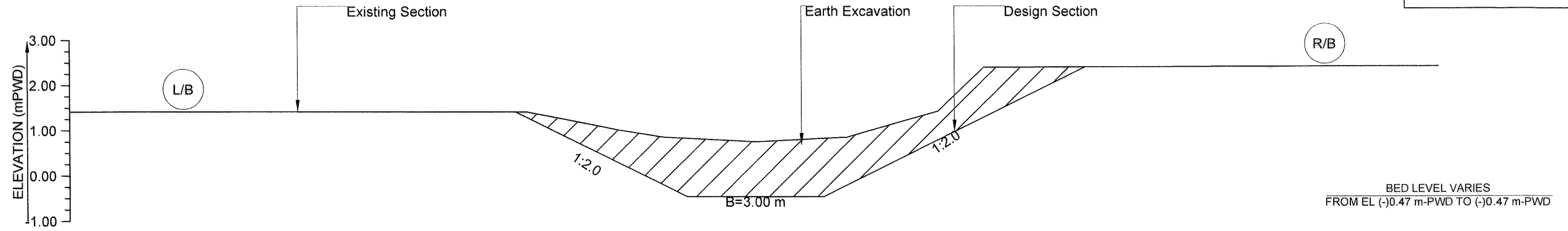

26/02/2026

CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE

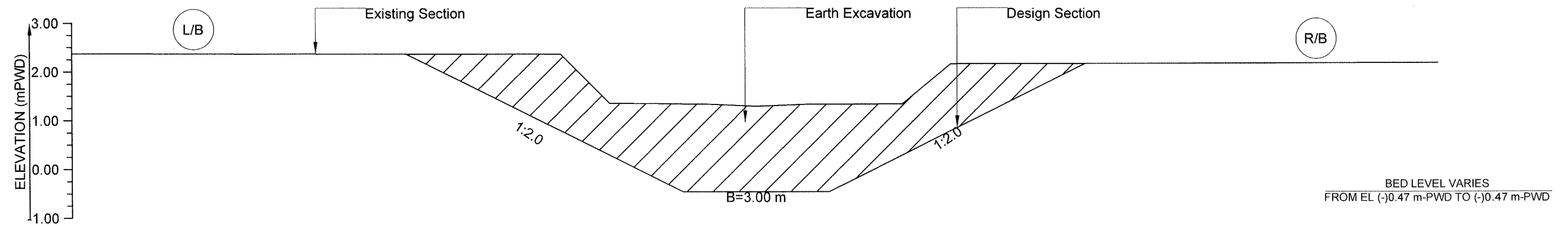
(JAKARIA PERVEZ), SE

Date: 23/2/2025




Drawing No: DC5-5794-05/16

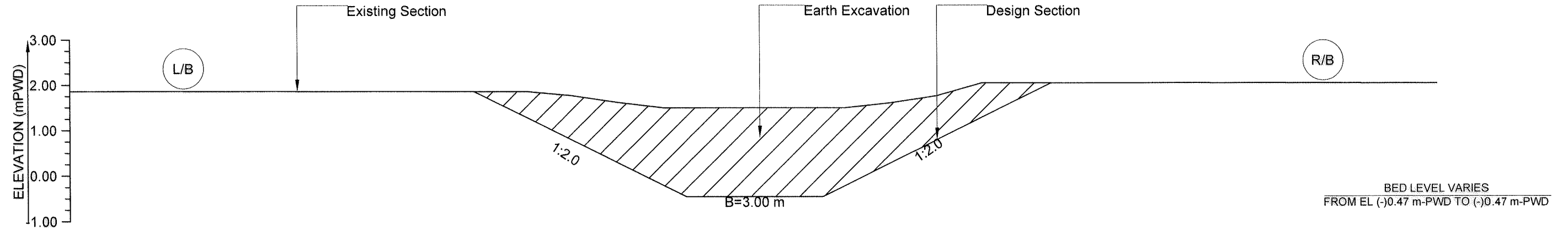
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TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 0.355
APPLICABLE FROM KM 0.328 TO KM 0.358

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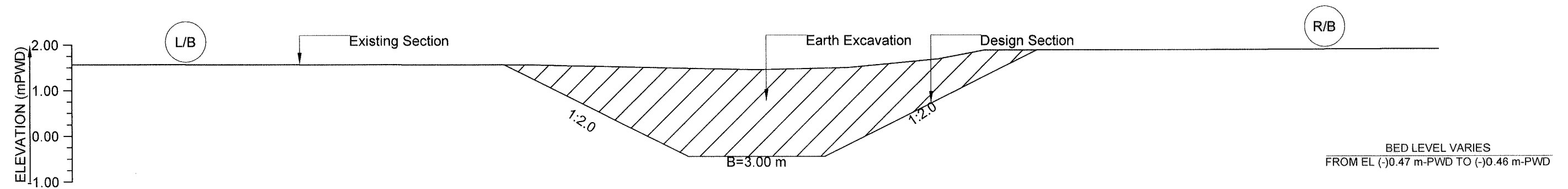
TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 0.360
APPLICABLE FROM KM 0.358 TO KM 0.380

Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
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CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 23/2/2025	Drawing No: DC5-5794-06/16




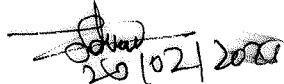

Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	1.858
Distance(m)	0.000 1.858
	5.000 1.853
	8.863 1.848
	10.000 1.847
	11.000 1.754
	11.182 1.727
	12.000 1.607
	13.000 1.487
	13.500 1.486 (-)0.470
	15.000 1.483 (-)0.470
	16.500 1.485 (-)0.470
	17.000 1.485
	18.000 1.594
	19.000 1.749
	20.000 2.034
	21.503 2.031
	25.000 2.025
	30.000 2.016

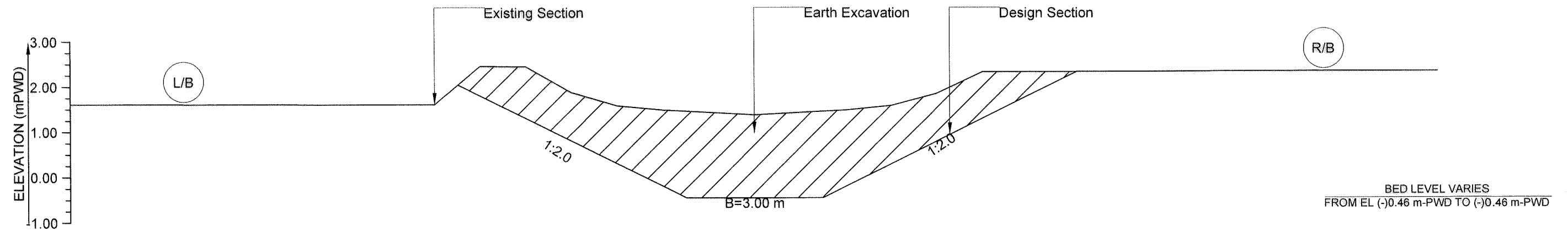
TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 0.400
APPLICABLE FROM KM 0.380 TO KM 0.450



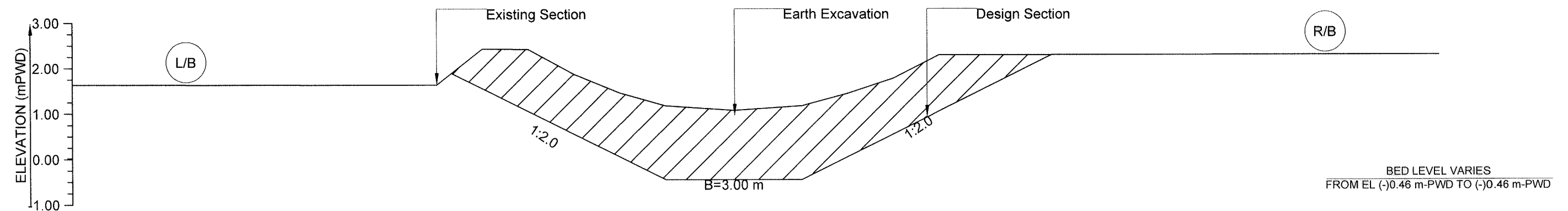
Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	1.566
Distance(m)	0.000
	5.000 1.561
	9.478 1.551
	10.000 1.550
	11.000 1.523
	11.489 1.515
	12.000 1.506
	13.000 1.483
	13.500 1.472 (-)0.460
	15.000 1.437 (-)0.460
	16.500 1.474 (-)0.460
	17.000 1.486
	18.000 1.580
	18.829 1.659
	19.000 1.675
	20.000 1.668
	21.159 1.669
	25.000 1.674
	30.000 1.689

TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 0.500
APPLICABLE FROM KM 0.450 TO KM 0.538

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Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
Re-excavation of Gunapara Khal from km. 0.000 to km. 1.750 in polder -1 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
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DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  25/02/2025 (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 23/2/2025	Drawing No: DC5-5794-07/16


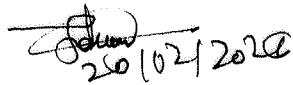

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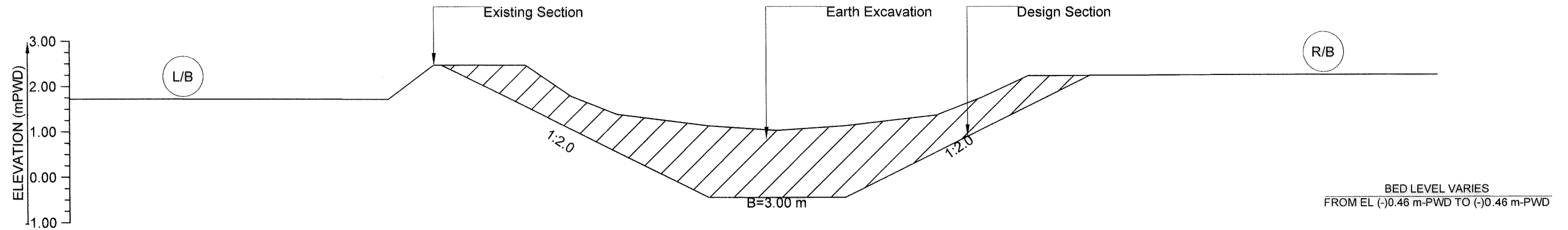
TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 0.575
APPLICABLE FROM KM 0.538 TO KM 0.578



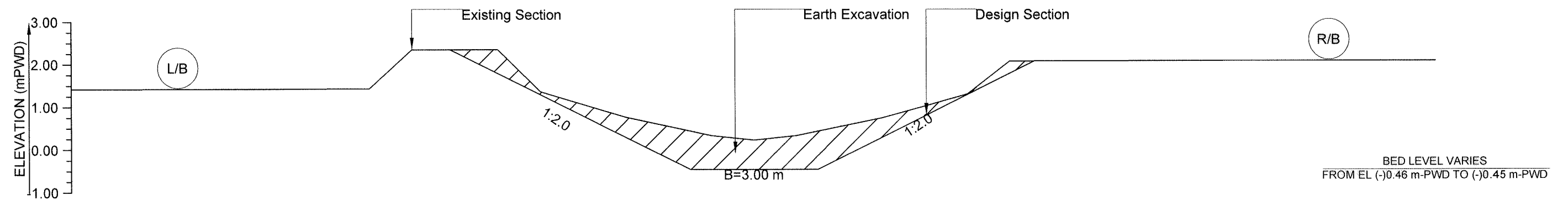
Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	1.636
Distance(m)	10.000 15.000 1.629 20.000 1.624 23.322 1.879 29.000 2.415 30.000 2.406 30.661 2.044 31.000 1.858 32.000 1.446 33.000 1.160 (-)0.460 34.500 1.058 (-)0.460 36.000 1.159 (-)0.460 37.000 1.433 38.000 1.769 38.739 2.144 39.000 2.276 41.478 2.279 45.000 2.283 50.000 2.290

TYPICAL CROSS SECTION OF GUNAPARA KHÁL AT KM 0.580
APPLICABLE FROM KM 0.578 TO KM 0.590

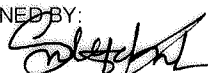
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Date: 23/2/2025	Drawing No: DC5-5794-08/16

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TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 0.600
APPLICABLE FROM KM 0.590 TO KM 0.650

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

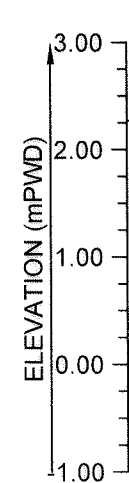
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Date: 23/2/2025	Drawing No: DC5-5794-09/16



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1.1.2

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

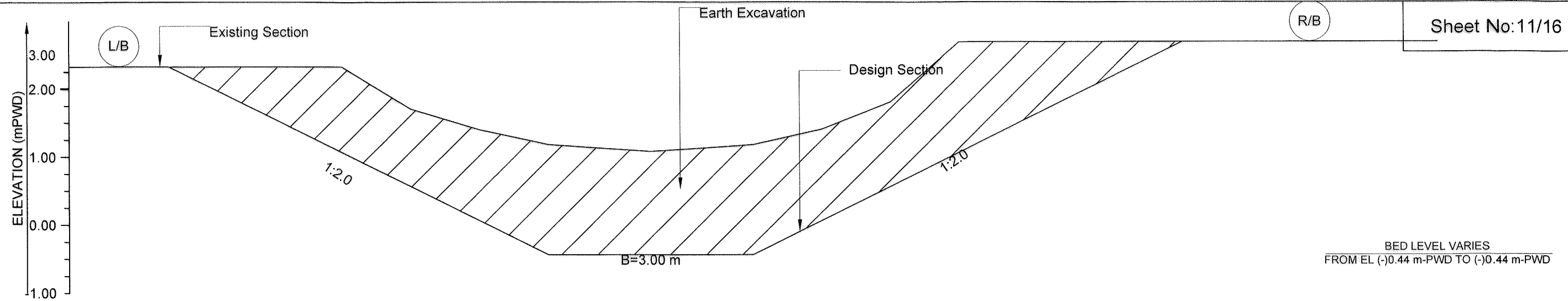


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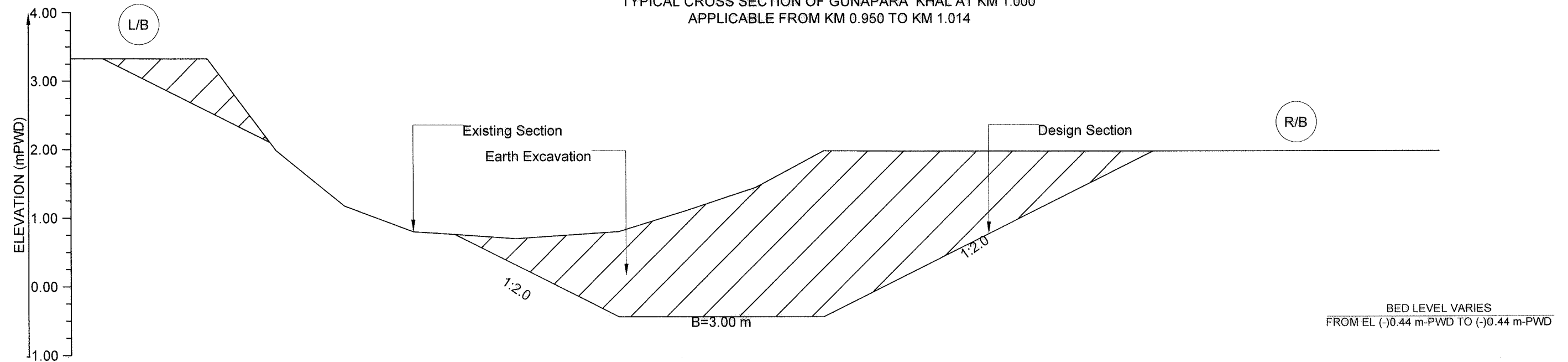
TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 0.900
APPLICABLE FROM KM 0.850 TO KM 0.950

Drawing No:DC5-5794-10/16



Design Bed Level in (mPWD)																	
Existing Bed Level in (mPWD)	2.328	2.326	2.323	2.178	1.702	1.398	1.177	1.073	1.175	1.402	1.805	2.688	2.688	2.693			
Distance(m)	0.000	1.468	4.000	4.234	5.000	6.000	7.000	8.500	10.000	11.000	12.000	13.000	13.133	16.000	16.266	20.000	

TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 1.000
APPLICABLE FROM KM 0.950 TO KM 1.014



Design Bed Level in (mPWD)																	
Existing Bed Level in (mPWD)	3.328	3.323	1.985	1.173	0.789	0.758	0.697	0.717	0.798	1.105	1.272	1.439	1.975	1.968			
Distance(m)	0.000	2.000	3.000	4.000	5.000	5.604	6.500	6.802	8.000	9.000	9.500	10.000	11.000	12.000	13.408	15.000	15.816


TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 1.028
APPLICABLE FROM KM 1.014 TO KM 1.036

Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5
CRISP-WRM


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TYPICAL CROSS SECTION OF GUNAPARA KHAL

DESIGNED BY:

(MD. MOSTAFA KAMAL), AE

APPROVED BY:

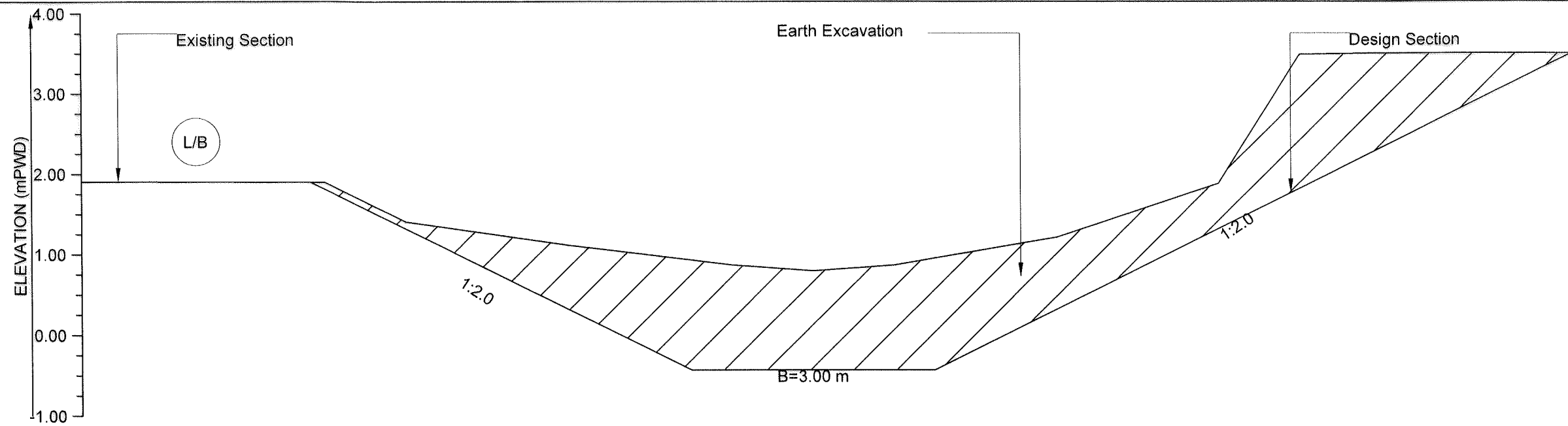

20/02/2025

CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE

(JAKARIA PERVEZ), SE

Date:23/2/2025

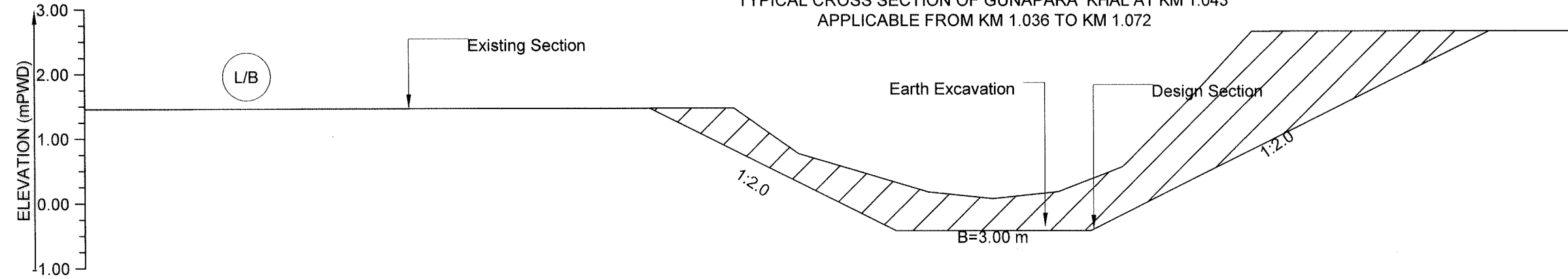
Drawing No:DC5-5794-11/16



BED LEVEL VARIES
FROM EL (-)0.44 m-PWD TO (-)0.44 m-PWD

Design Bed Level in (mPWD)																			
Existing Bed Level in (mPWD)	1.904	1.896	1.895	1.399	1.230	1.109	0.923	0.861	0.788	0.860	0.946	1.205	1.872	2.576	3.483	3.497			
Distance(m)	0.000	2.829	3.000	4.000	5.164	6.000	7.500	8.000	9.000	10.000	10.500	12.000	14.000	14.437	15.000	16.000	16.590	18.374	20.000

TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 1.043
APPLICABLE FROM KM 1.036 TO KM 1.072



BED LEVEL VARIES
FROM EL (-)0.44 m-PWD TO (-)0.43 m-PWD

Design Bed Level in (mPWD)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</
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TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 1.100
APPLICABLE FROM KM 1.072 TO KM 1.150

Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

Re-excavation of Gunapara Khal from km. 0.000 to km. 1.750 in polder -1 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025

TYPICAL CROSS SECTION OF GUNAPARA KHAL

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

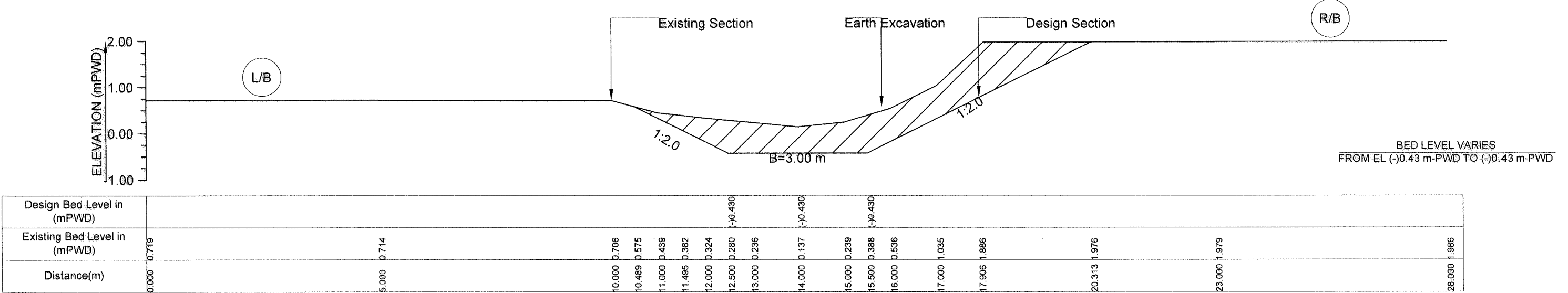
APPROVED BY:
(Signature)
20/10/2024

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

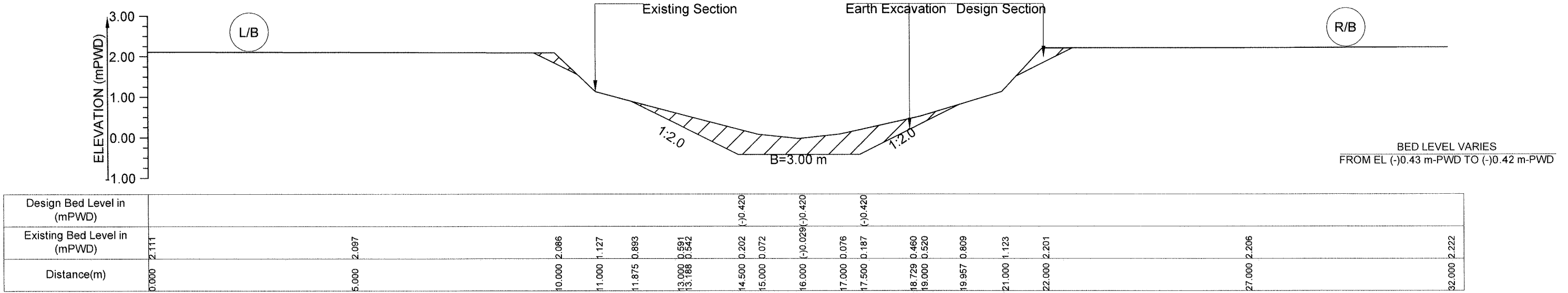
(JAKARIA PERVEZ), SE

Date:23/2/2025


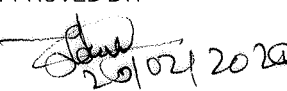

Drawing No:DC5-5794-12/16

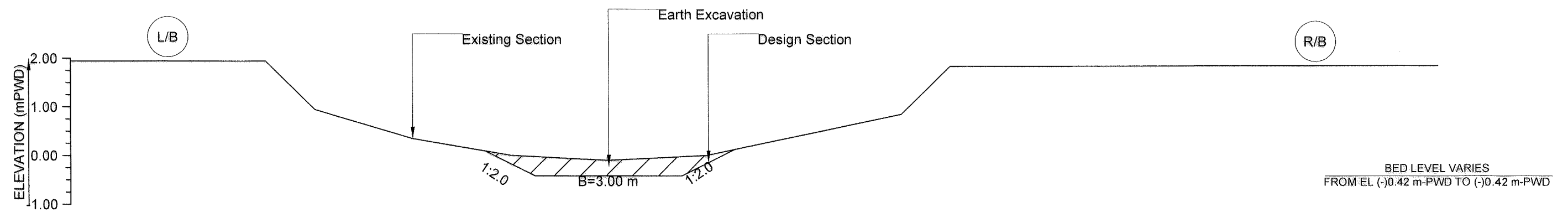


TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 1.200
APPLICABLE FROM KM 1.150 TO KM 1.250



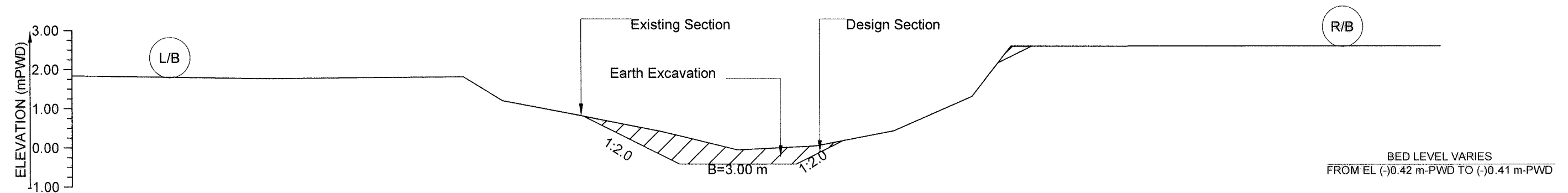
TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 1.300
APPLICABLE FROM KM 1.250 TO KM 1.350

Bangladesh Water Development Board	
Office of The Superintending Engineer,Design Circle-5	
CRISP-WRM	
Re-excavation of Gunapara Khal from km. 0.000 to km. 1.750 in polder -1 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
TYPICAL CROSS SECTION OF GUNAPARA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL),AE	APPROVED BY:  (JAKARIA PERVEZ),SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN),EE	
Date:23/2/2025	Drawing No:DC5-5794-13/16






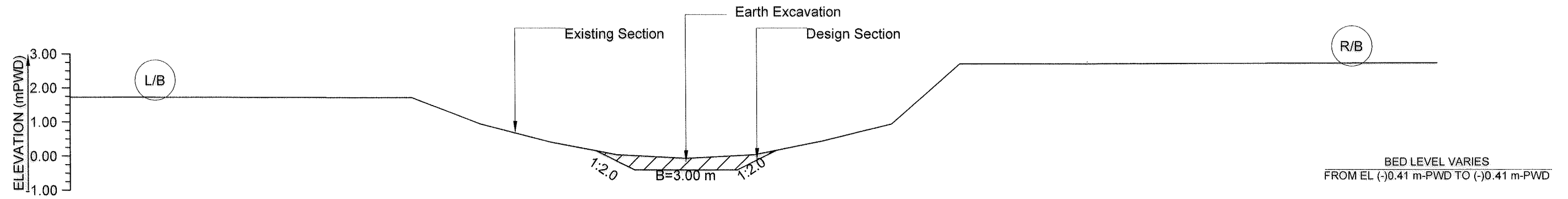
Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	
Distance(m)	<div> <div>0.000</div> <div>1.000</div> <div>2.000</div> <div>3.000</div> <div>4.000</div> <div>5.000</div> <div>6.000</div> <div>7.000</div> <div>8.000</div> <div>9.000</div> <div>10.000</div> <div>11.000</div> <div>12.000</div> <div>13.000</div> <div>14.000</div> <div>15.000</div> <div>16.000</div> <div>17.000</div> <div>18.000</div> <div>19.000</div> <div>20.000</div> <div>21.000</div> <div>22.000</div> <div>23.000</div> <div>24.000</div> <div>25.000</div> <div>26.000</div> <div>27.000</div> <div>28.000</div> </div>

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

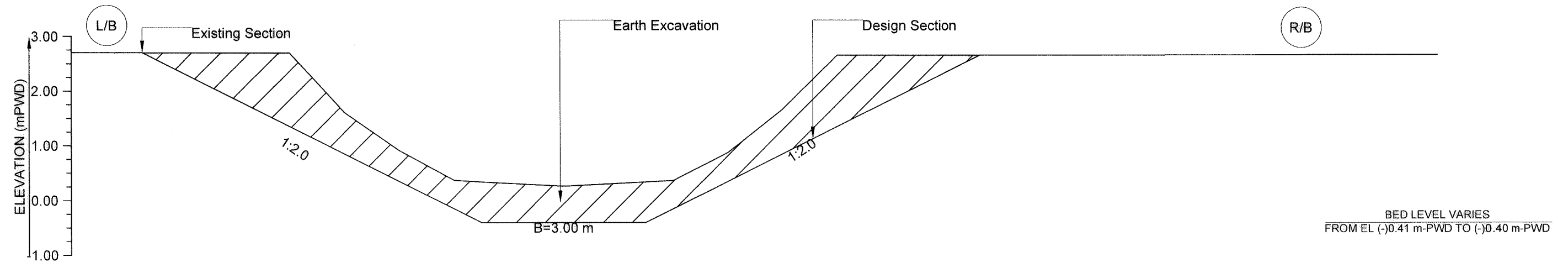
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TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 1.500
APPLICABLE FROM KM 1.450 TO KM 1.550




Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
Re-excavation of Gunapara Khal from km. 0.000 to km. 1.750 in polder -1 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
TYPICAL CROSS SECTION OF GUNAPARA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  26/02/2026 (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 23/2/2025	Drawing No: DC5-5794-14/16

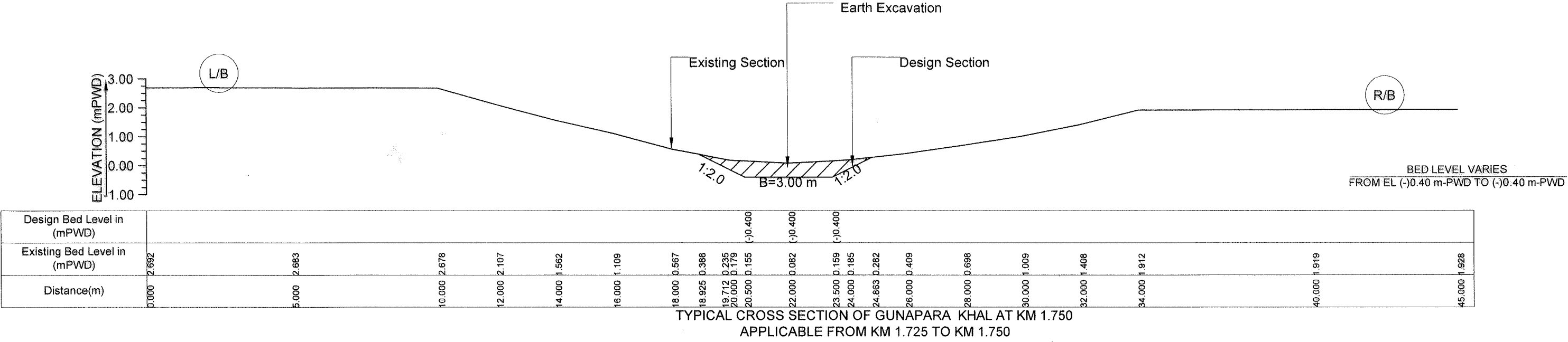
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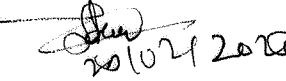

TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 1.600
APPLICABLE FROM KM 1.550 TO KM 1.650

[illegible]

TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 1.700
APPLICABLE FROM KM 1.650 TO KM 1.725

Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
Re-excavation of Gunapara Khal from km. 0.000 to km. 1.750 in polder -1 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
TYPICAL CROSS SECTION OF GUNAPARA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL), AE	APPROVED BY:  20/02/2026 (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN), EE	
Date: 23/2/2025	Drawing No: DC5-5794-15/16



Bangladesh Water Development Board	
Office of The Superintending Engineer,Design Circle-5	
CRISP-WRM	
Re-excavation of Gunapara Khal from km. 0.000 to km. 1.750 in polder -1 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division. BWDB, Gopalganj during the year 2024-2025	
TYPICAL CROSS SECTION OF GUNAPARA KHAL	
DESIGNED BY:  (MD. MOSTAFA KAMAL),AE	APPROVED BY:  (JAKARIA PERVEZ),SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN),EE	
Date:23/2/2025	Drawing No:DC5-5794-16/16