

# Bangladesh Water Development Board

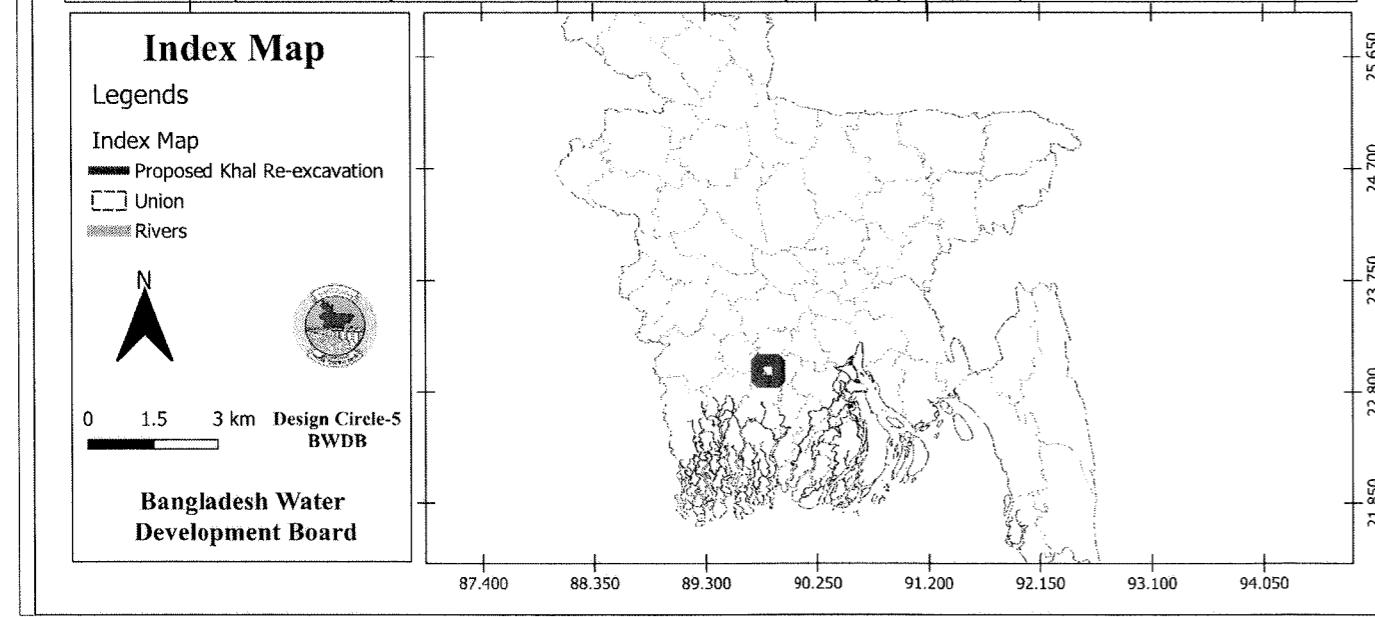
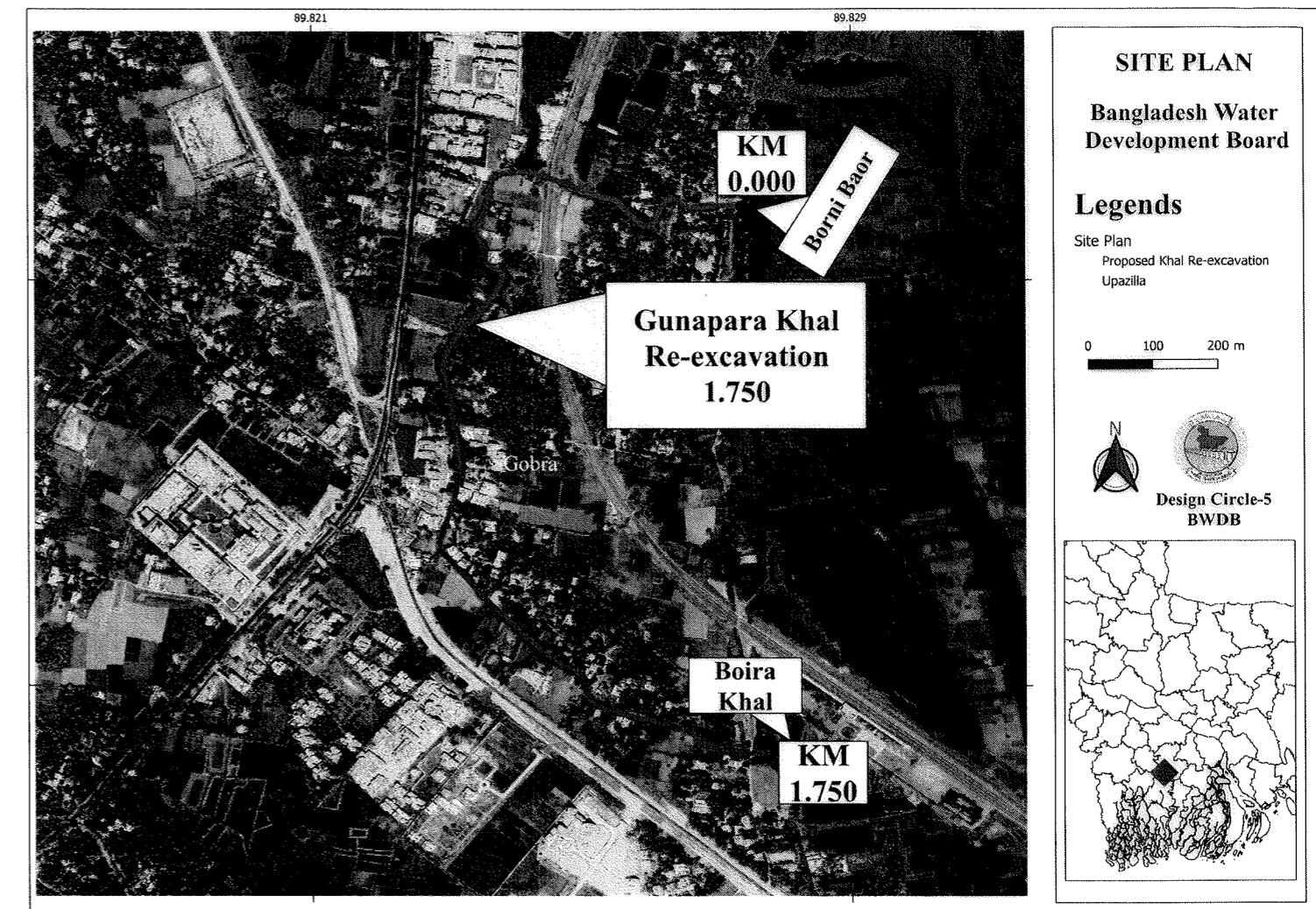
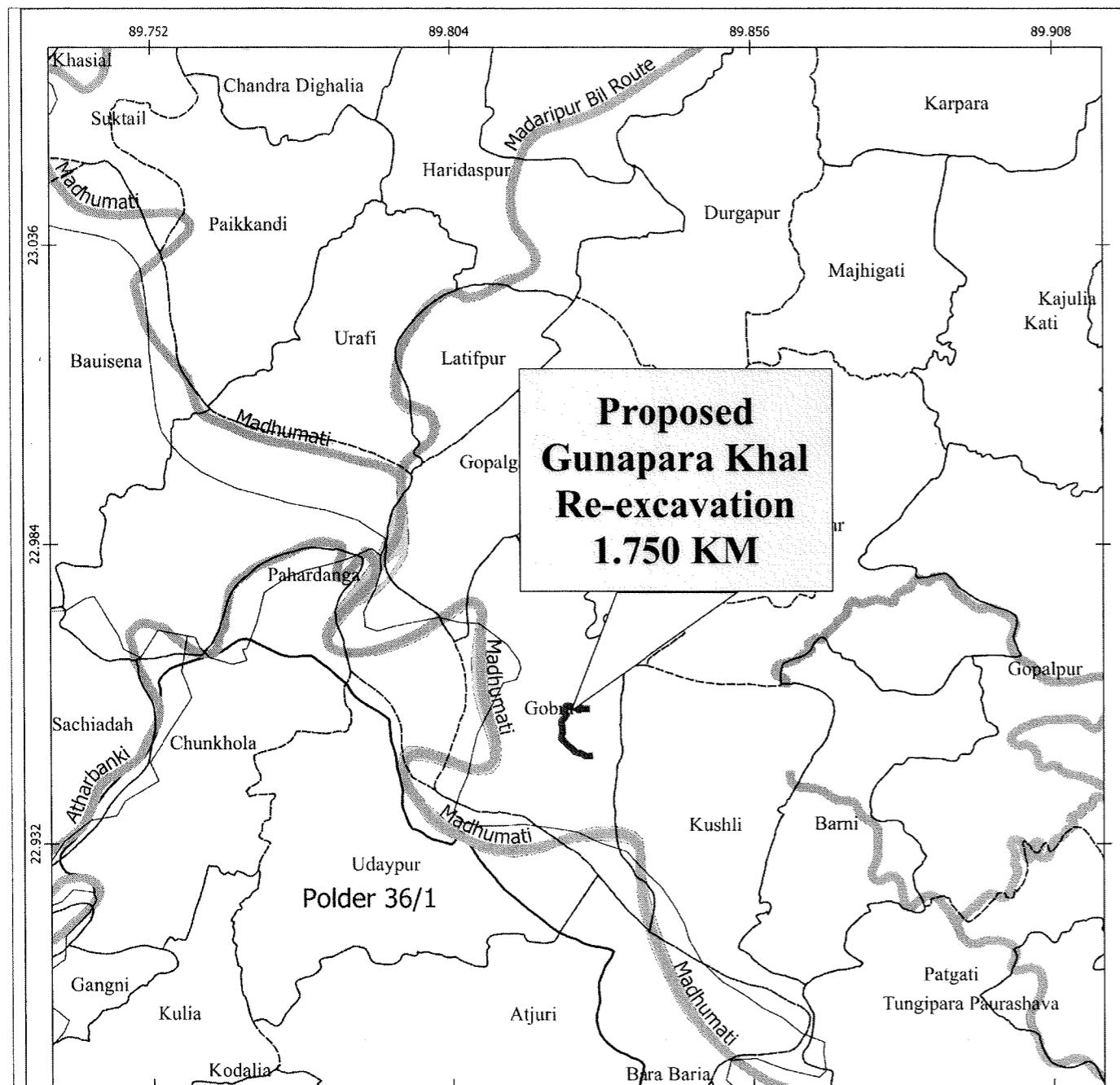
CRISP-WRM

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



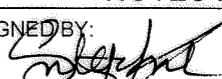
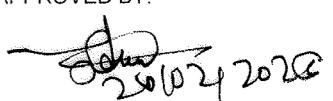
<b>Bangladesh Water Development Board</b>	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
Re-excavation of Gunapara Khal from km. 0.000 to km. 1.750 in polder -1 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division, BWDB, Gopalganj during the year 2024-2025	
<b>INDEX MAP &amp; SITE MAP FOR GUNAPARA KHAL</b>	
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

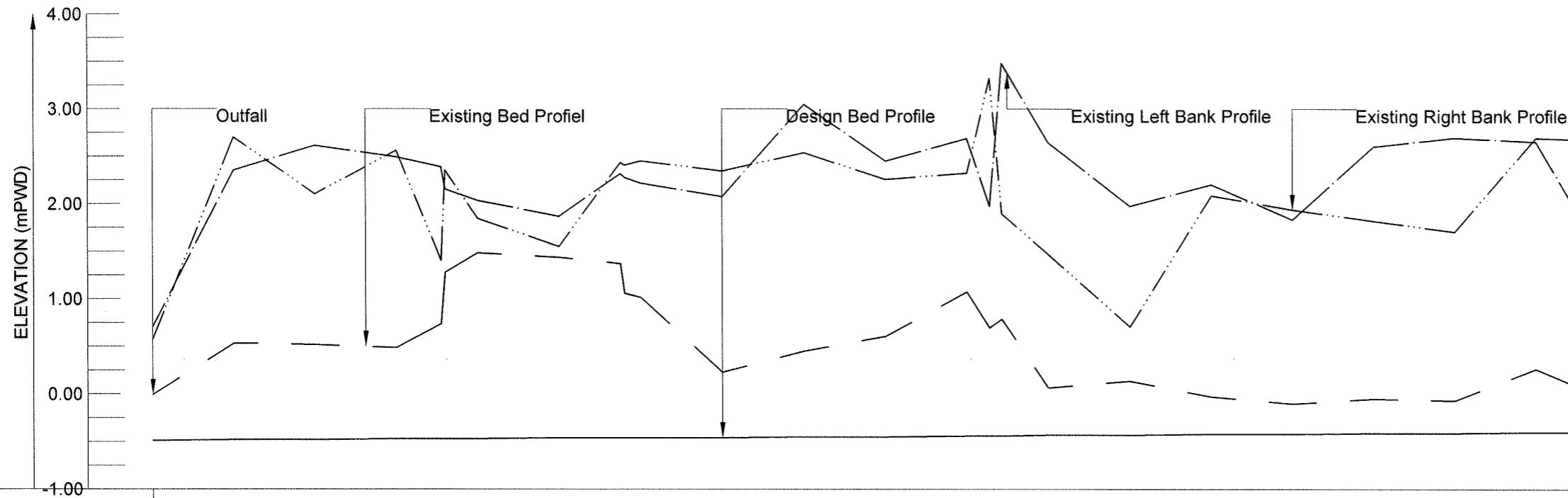
**Administrative Notes :**

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 EROSION.
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 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	
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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	



Design Bed Width(m)	Design Bed Level (mPWD)	Existing Bed Level (mPWD)	Existing Left Bank Level (mPWD)	Existing Right Bank Level (mPWD)	Distance(Km)
0.000	0.707	0.577	0.308	0.600	0.000
0.100	2.353	2.700	0.533	2.378	0.100
0.200	2.612	2.101	0.518	2.403	0.200
0.300	2.493	2.561	0.487	2.449	0.300
0.365	2.383	2.463	0.470	2.358	0.365
0.400	2.034	1.847	1.483	2.215	0.400
0.500	1.868	1.550	1.437	2.215	0.500
0.585	0.600	0.376	1.013	0.600	0.585
0.700	2.075	2.346	0.228	2.406	0.700
0.800	3.049	2.537	0.451	2.449	0.800
0.900	2.450	2.257	0.606	2.358	0.900
1.000	2.688	2.323	1.073	1.975	1.000
1.028	1.043	3.323	0.440	3.463	1.028
1.100	2.646	1.469	0.065	2.895	1.100
1.200	1.974	0.706	0.137	2.698	1.200
1.300	2.201	2.086	(-0.029)	2.040	1.300
1.400	1.833	1.937	(-0.103)	1.820	1.400
1.500	2.603	1.820	(-0.049)	1.410	1.500
1.600	2.696	1.706	(-0.070)	1.400	1.600
1.700	2.653	2.694	(-0.263)	0.082	1.700
1.750	1.912	2.678	(-0.400)	0.082	1.750

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

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## LONG SECTION OF GUNAPARA KHAL

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(MD. MOSTAFA KAMAL),AE

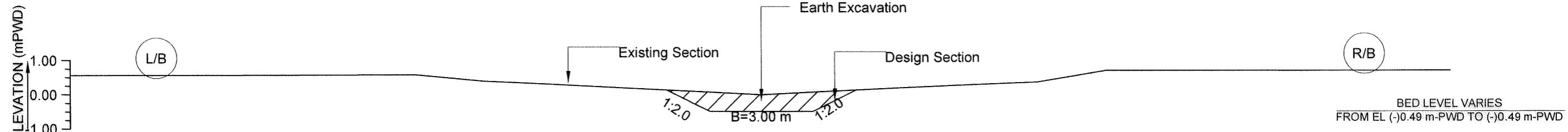
APPROVED BY:

  
(JAKARIA PERVEZ),SE

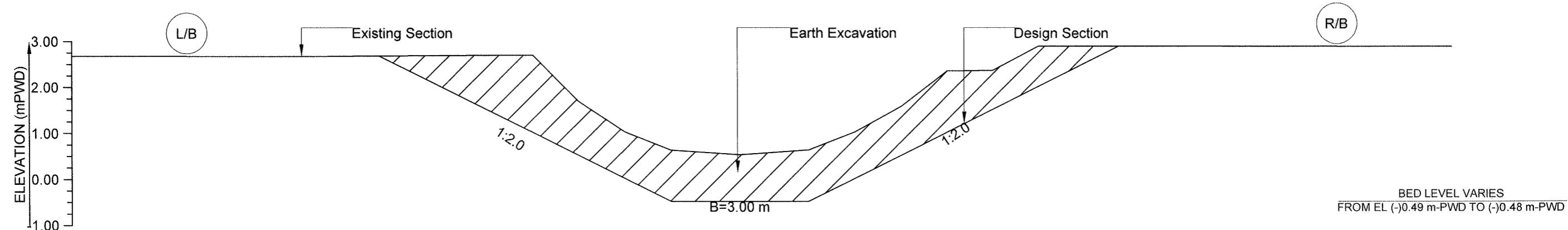
CHECKED AND RECOMMENDED BY:  
  
(MD. KAMRUL HASAN),EE

Date:23/2/2025

Drawing No:DC5-5794-03/16



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



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

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TYPICAL CROSS SECTION OF GUNAPARA KHAL

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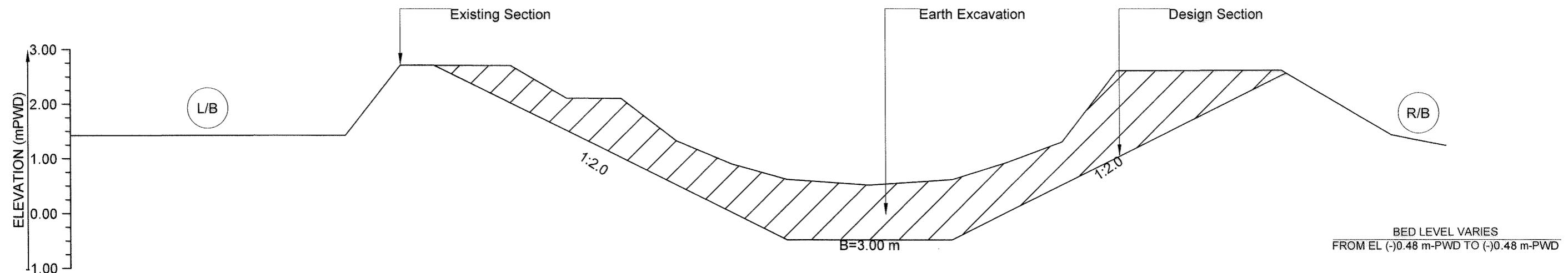
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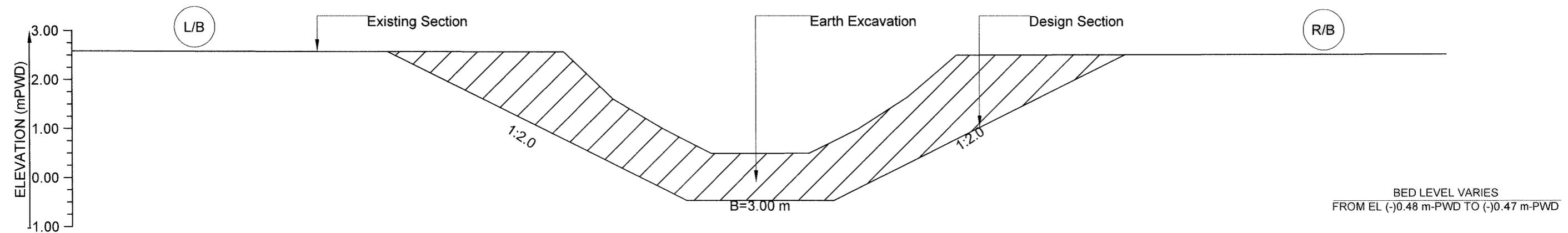
CHECKED AND RECOMMENDED BY:  
  
(JAKARIA PERVEZ), SE

Date: 23/2/2025

Drawing No: DC5-5794-04/16



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



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

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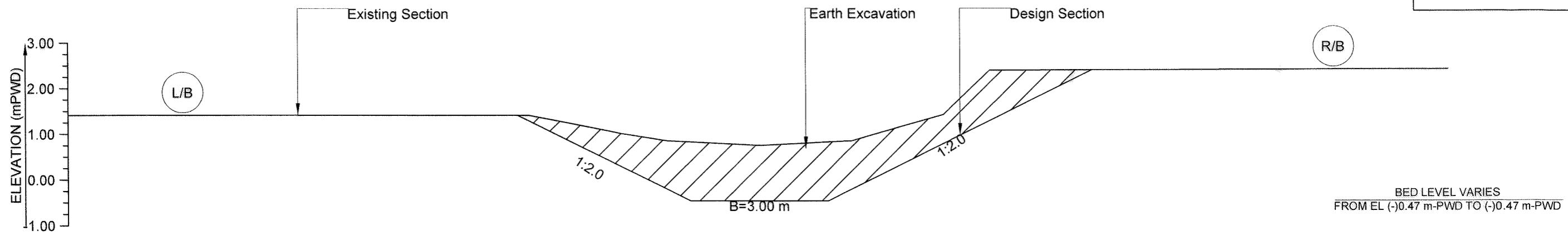
TYPICAL CROSS SECTION OF GUNAPARA KHAL

DESIGNED BY:  
  
(MD. MOSTAFA KAMAL), AE

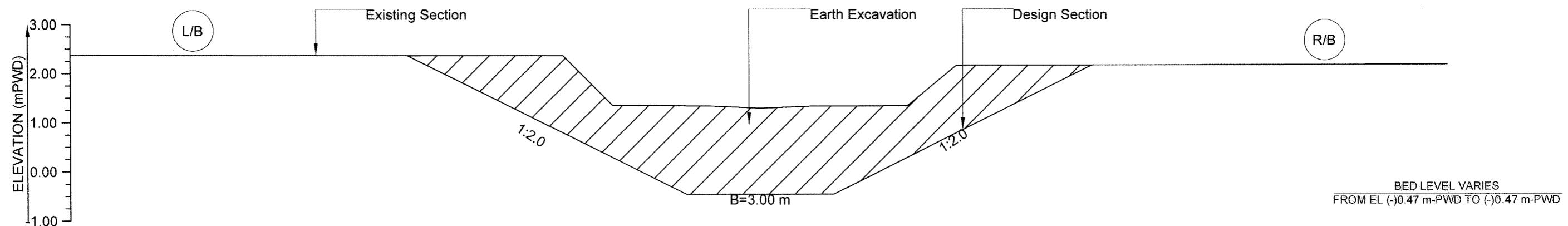
APPROVED BY:

26/02/2024  
(JAKARIA PERVEZ), SE

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



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



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

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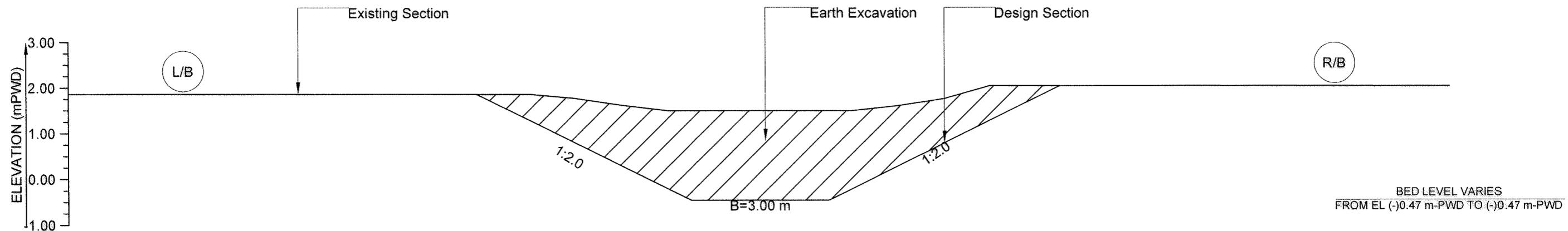
TYPICAL CROSS SECTION OF GUNAPARA KHAL

DESIGNED BY:  
  
(MD. MOSTAFA KAMAL),AE

APPROVED BY:

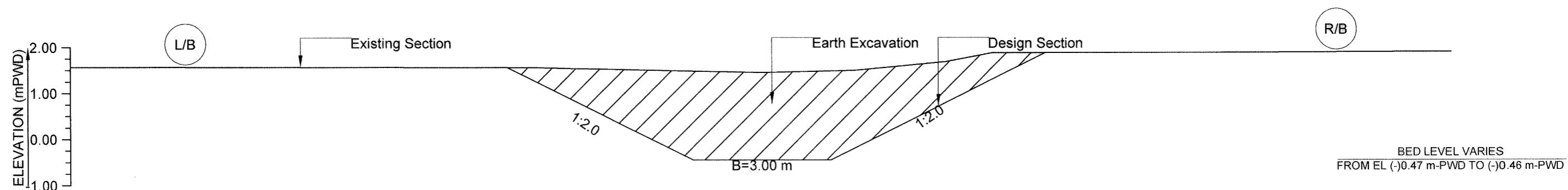
  
20/02/2025  
(JAKARIA PERVEZ),SE

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



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	
Distance(m)	

**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)	
Distance(m)	

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

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## TYPICAL CROSS SECTION OF GUNAPARA KHAL

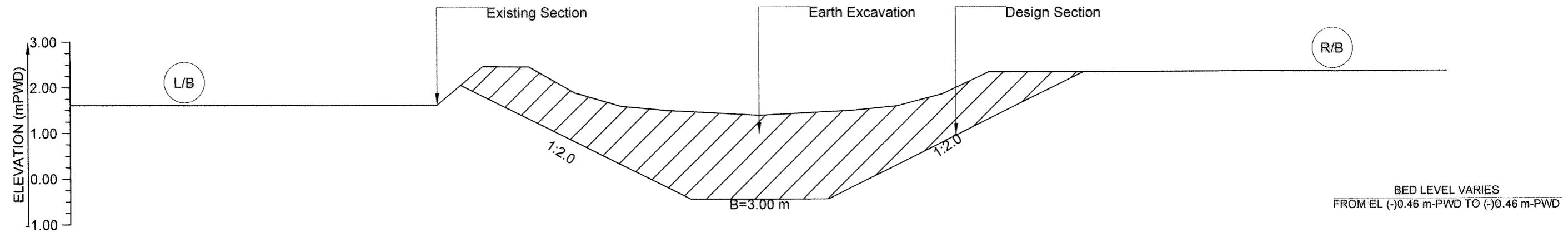
DESIGNED BY:  
  
(MD. MOSTAFKA KAMAL), AE

APPROVED BY:

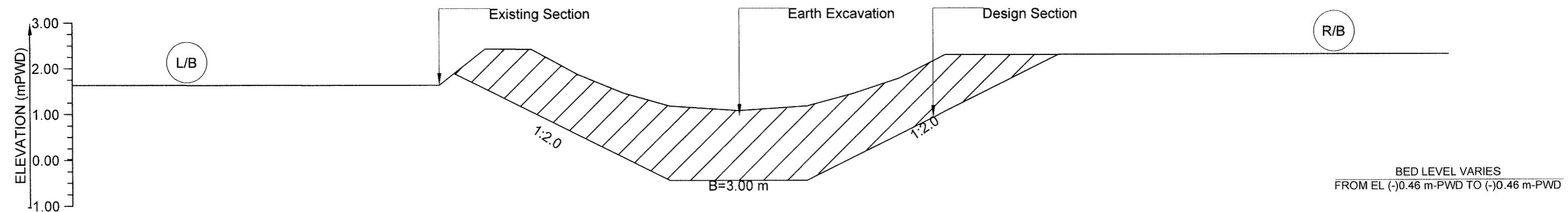
CHECKED AND RECOMMENDED BY:  
A. C. Hasan  
(MD. KAMRUL HASAN), EE

(JAKARIA PERVEZ),SE

Date:23/2/2025 Drawing No:DC5-5794-07/16

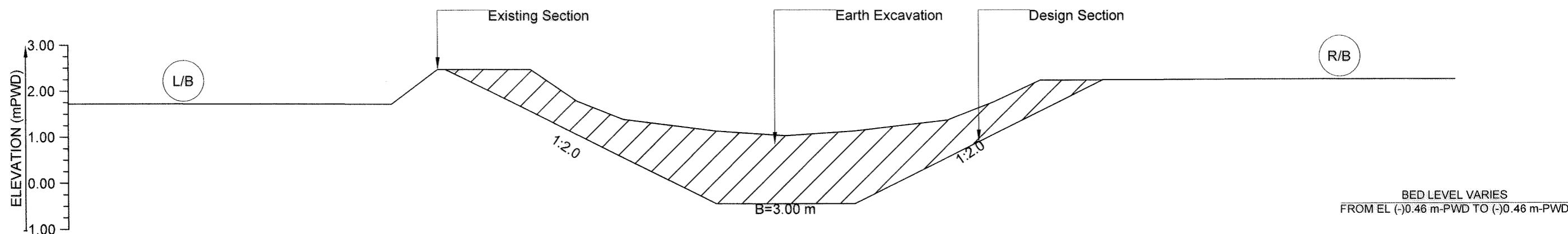


TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 0.575  
APPLICABLE FROM KM 0.538 TO KM 0.578



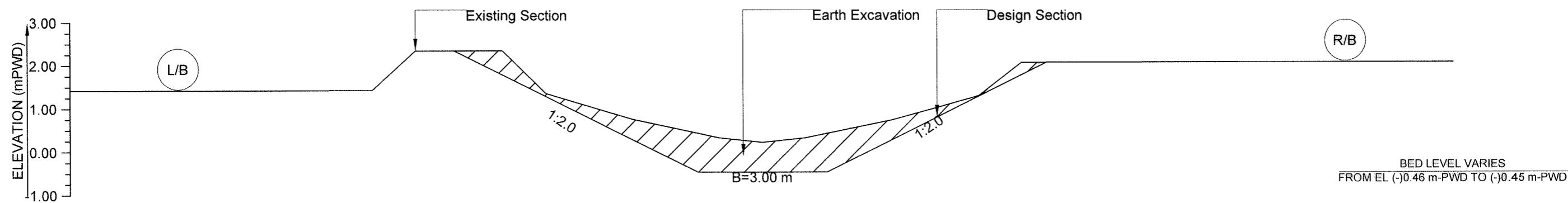
TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 0.580  
APPLICABLE FROM KM 0.578 TO KM 0.590

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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: DC5-5794-08/16



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	
Distance(m)	

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



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	
Distance(m)	

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

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## TYPICAL CROSS SECTION OF GUNAPARA KHAL

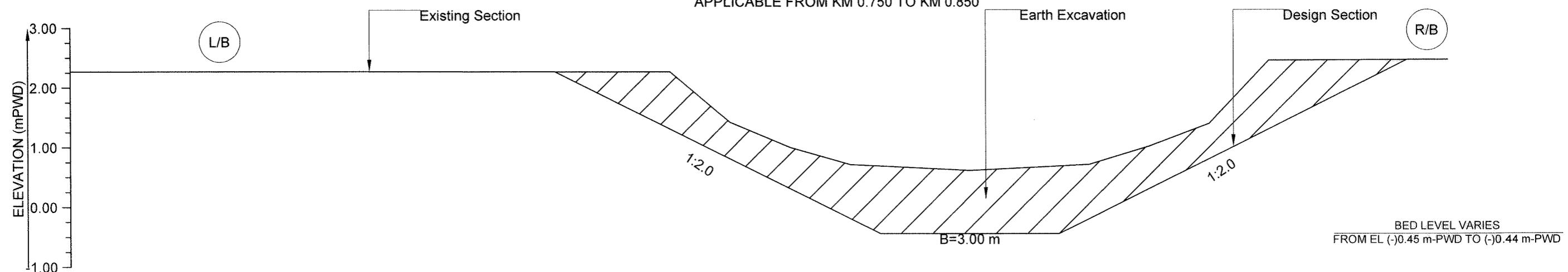
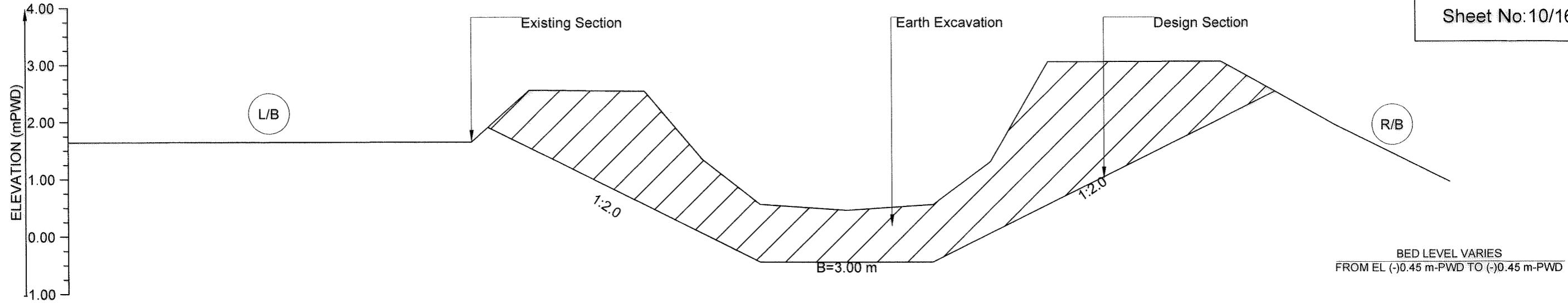
DESIGNED BY:  
  
(MD. MOSTAFÄ KAMAL), AE

APPROVED BY:

CHECKED AND RECOMMENDED BY:  
*A. Hasan*  
(MD. KAMRUL HASAN) FF

(JAKARIA PERVEZ),SE

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



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

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

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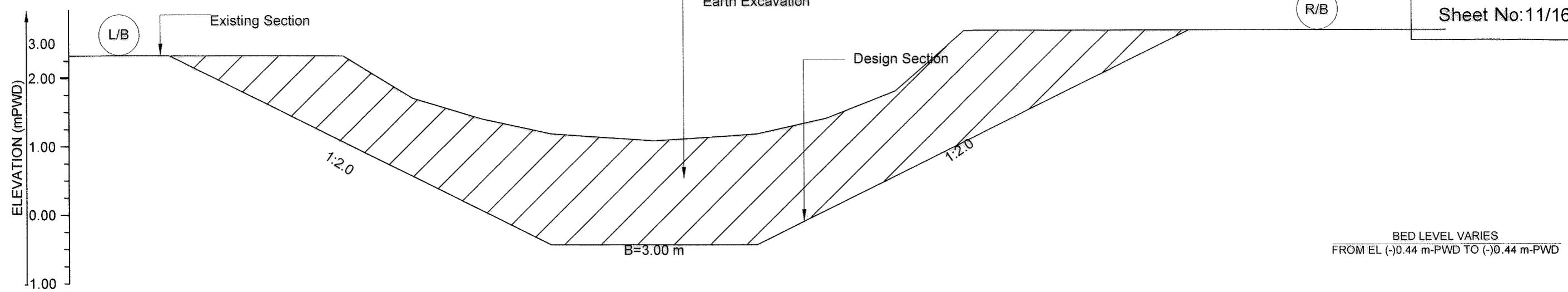
TYPICAL CROSS SECTION OF GUNAPARA KHAL

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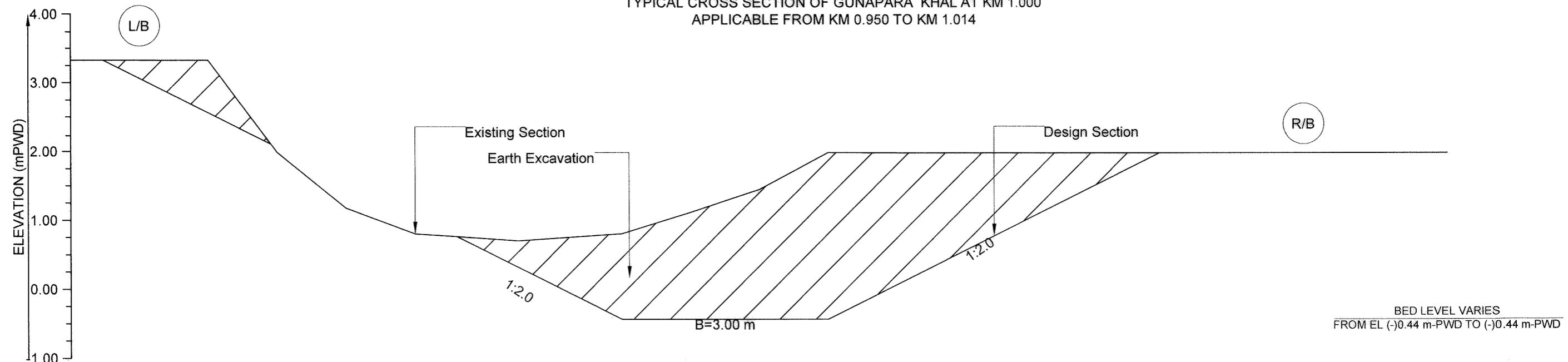
APPROVED BY:

23/02/2024  
(JAKARIA PERVEZ),SE

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



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
2.328	2.326	0.000
1.468		1.468
	4.000	4.000
	4.233	4.234
	2.178	2.178
	5.000	5.000
	1.702	1.702
	6.000	6.000
	1.398	1.398
	7.000	7.000
	1.177	1.177
	(-)0.440	(-)0.440
	8.500	8.500
	1.073	1.073
	(-)0.440	(-)0.440
	10.000	10.000
	1.175	1.175
	(-)0.440	(-)0.440
	11.000	11.000
	1.402	1.402
	12.000	12.000
	1.805	1.805
	13.000	13.000
	2.688	2.688
	13.133	13.133
	16.000	16.000
	2.693	2.693
	16.266	16.266
	20.000	20.000



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
3.328	3.323	0.000
2.000		2.000
3.000	1.985	3.000
4.000	1.173	4.000
5.000	0.799	5.000
5.604	0.758	5.604
6.500	0.697	6.500
6.802	0.717	6.802
8.000	0.798	8.000
	(-)0.440	(-)0.440
	9.000	9.000
	1.105	1.105
	(-)0.440	(-)0.440
	10.000	10.000
	1.439	1.439
	(-)0.440	(-)0.440
	11.000	11.000
	1.975	1.975
	(-)0.440	(-)0.440
	12.000	12.000
	1.968	1.968
	(-)0.440	(-)0.440
	13.408	13.408
	15.000	15.000
	15.816	15.816
	20.000	20.000

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

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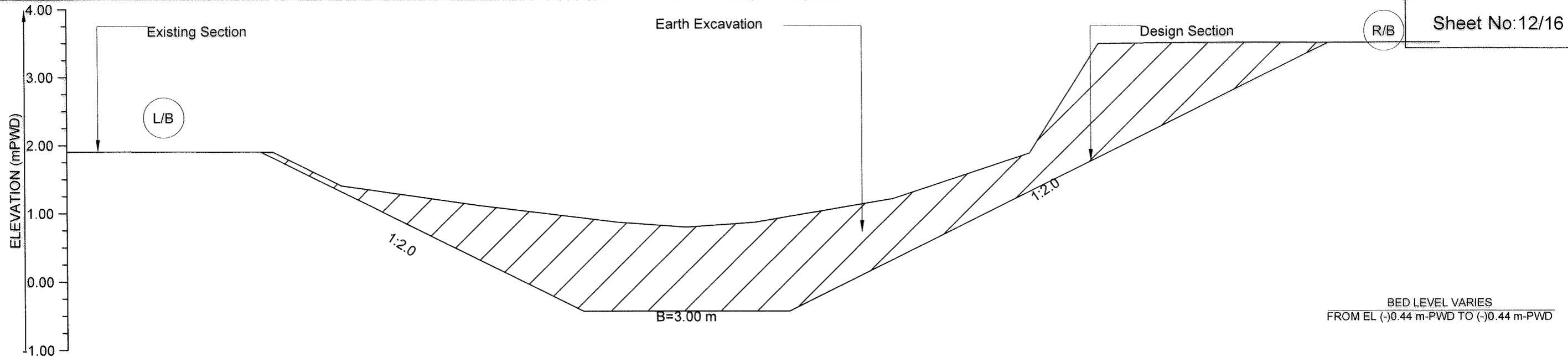
APPROVED BY:

(JAKARIA PERVEZ),SE

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(MD. KAMRUL HASAN),EE

Date:23/2/2025

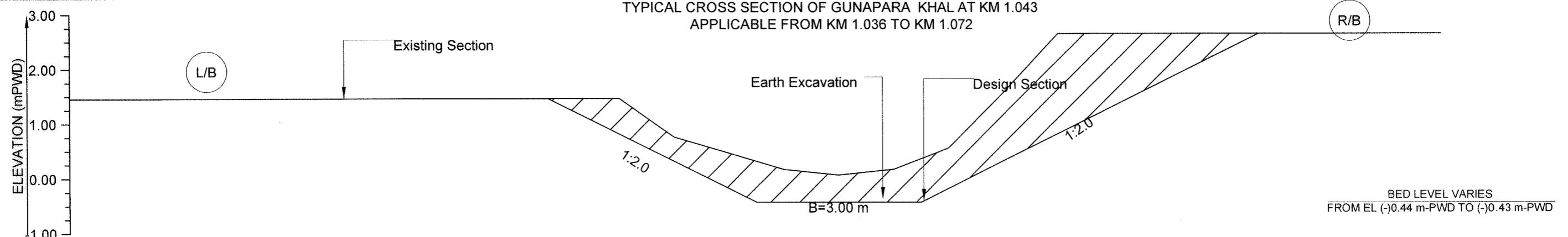
Drawing No:DC5-5794-11/16



Design Bed Level in (mPWD)	7.500	9.023	(-)0.440
Existing Bed Level in (mPWD)	8.000	9.361	
Distance(m)	0.000	1.904	4.000

2.829	1.896
3.000	1.895
4.000	1.399
5.164	1.230
6.000	1.109
7.500	0.923
8.000	0.861
9.000	0.788
10.000	0.860
10.500	0.946
12.000	1.205
14.000	1.872
14.437	2.576
15.000	3.483
16.000	3.497
16.590	
18.374	
20.000	



Design Bed Level in (mPWD)	10.000	1.469	
Existing Bed Level in (mPWD)	10.602	1.041	
Distance(m)	0.000	1.455	5.000

11.000	0.759
12.000	0.484
12.500	0.316
13.000	0.167
14.000	0.065
15.000	0.169
15.500	0.364
16.000	0.558
17.000	1.560
18.000	2.646
18.588	2.653
19.000	2.658
20.190	
21.676	
25.000	

TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 1.100  
APPLICABLE FROM KM 1.072 TO KM 1.150

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TYPICAL CROSS SECTION OF GUNAPARA KHAL

DESIGNED BY:  
  
(MD. MOSTAFA KAMAL), AE

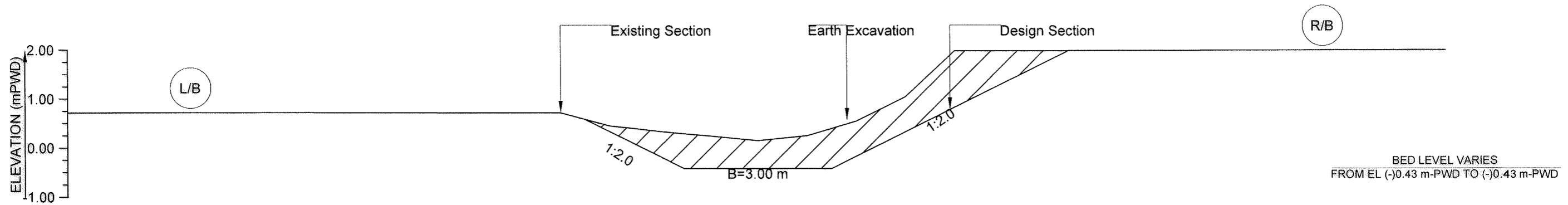
APPROVED BY:

(JAKARIA PERVEZ), SE

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

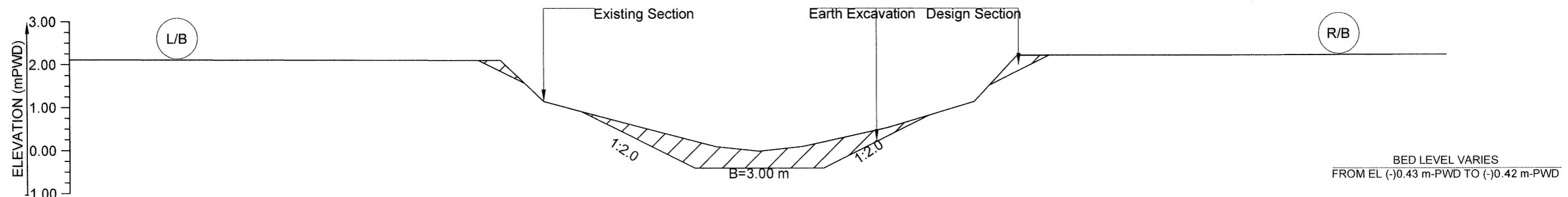
Date: 23/2/2025

Drawing No: DC5-5794-12/16



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.719
Distance(m)	0.000 5.000

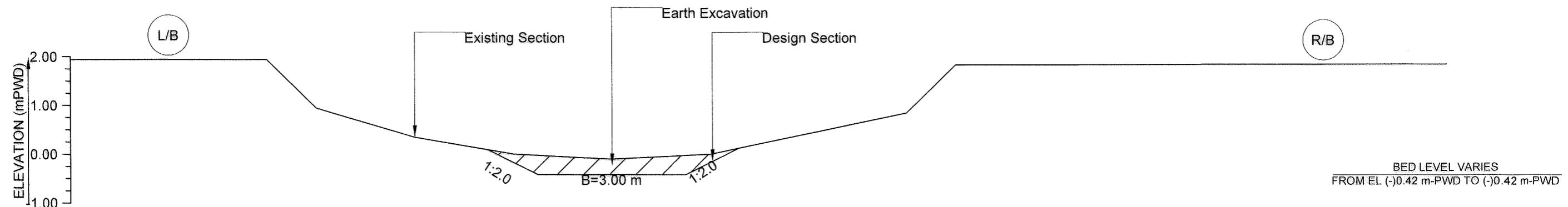
TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 1.200  
APPLICABLE FROM KM 1.150 TO KM 1.250



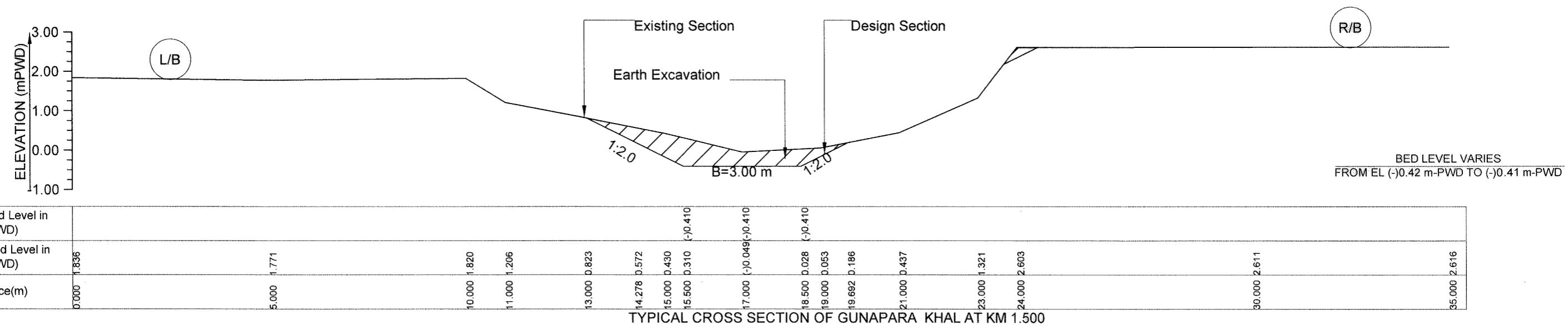
Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	2.111
Distance(m)	0.000 5.000

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

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CRISP-WRM	
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<b>TYPICAL CROSS SECTION OF GUNAPARA KHAL</b> 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



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



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

Bangladesh Water Development Board

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CRISP-WRM

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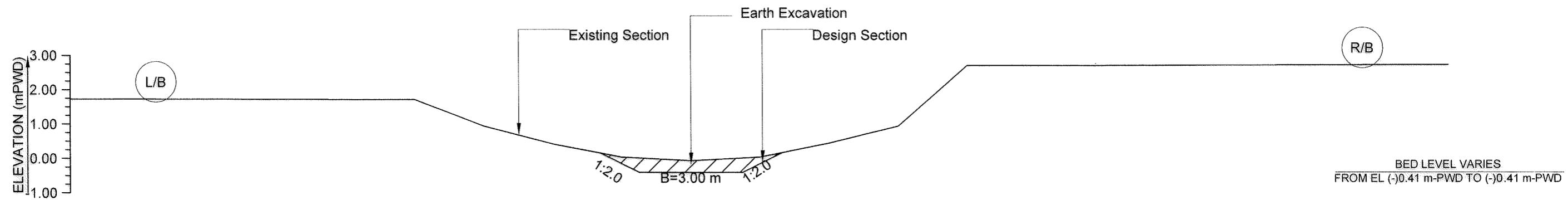
TYPICAL CROSS SECTION OF GUNAPARA KHAL

DESIGNED BY:  
  
(MD. MOSTAFA KAMAL),AE

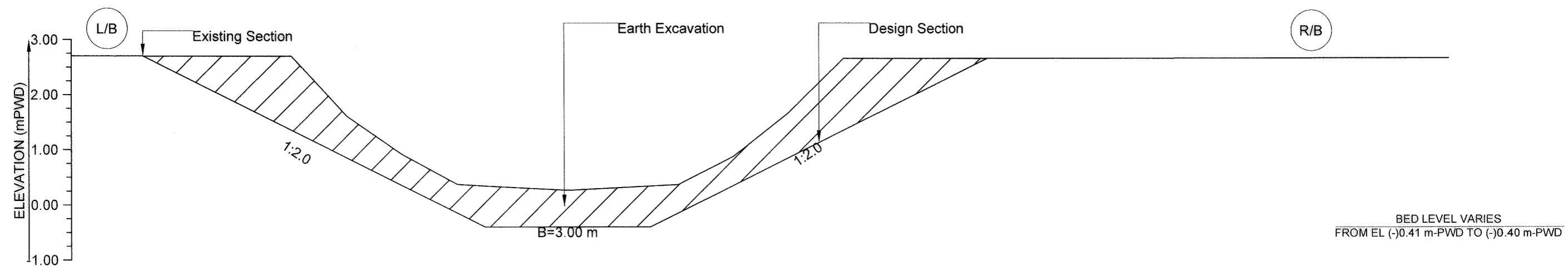
APPROVED BY:

26/02/2026  
(JAKARIA PERVEZ),SE

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



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



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

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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

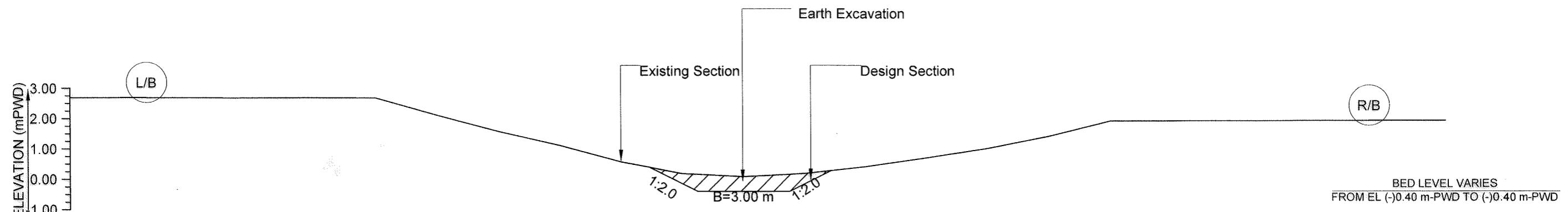
TYPICAL CROSS SECTION OF GUNAPARA KHAL

DESIGNED BY:  
  
(MD. MOSTAFA KAMAL), AE

APPROVED BY:

26/02/2020  
(JAKARIA PERVEZ), SE

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



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	
Distance(m)	
0.000	2.692
5.000	2.683
10.000	2.678
12.000	2.107
14.000	1.582
16.000	1.109
18.000	0.567
18.925	0.388
19.712	0.235
20.000	0.179
20.500	0.155
	(-)0.400
22.000	0.082
23.500	0.159
24.000	0.185
24.863	0.282
26.000	0.469
28.000	0.698
30.000	1.009
32.000	1.408
34.000	1.912
40.000	1.919
45.000	1.928

TYPICAL CROSS SECTION OF GUNAPARA KHAL AT KM 1.750  
APPLICABLE FROM KM 1.725 TO KM 1.750

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CRISP-WRM

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TYPICAL CROSS SECTION OF GUNAPARA KHAL

DESIGNED BY:  
  
(MD. MOSTAFA KAMAL),AE

APPROVED BY:

20/02/2025  
(JAKARIA PERVEZ),SE

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