

Bangladesh Water Development Board

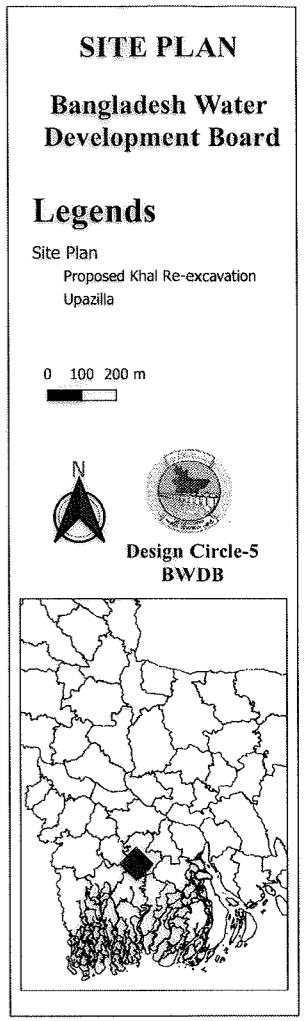
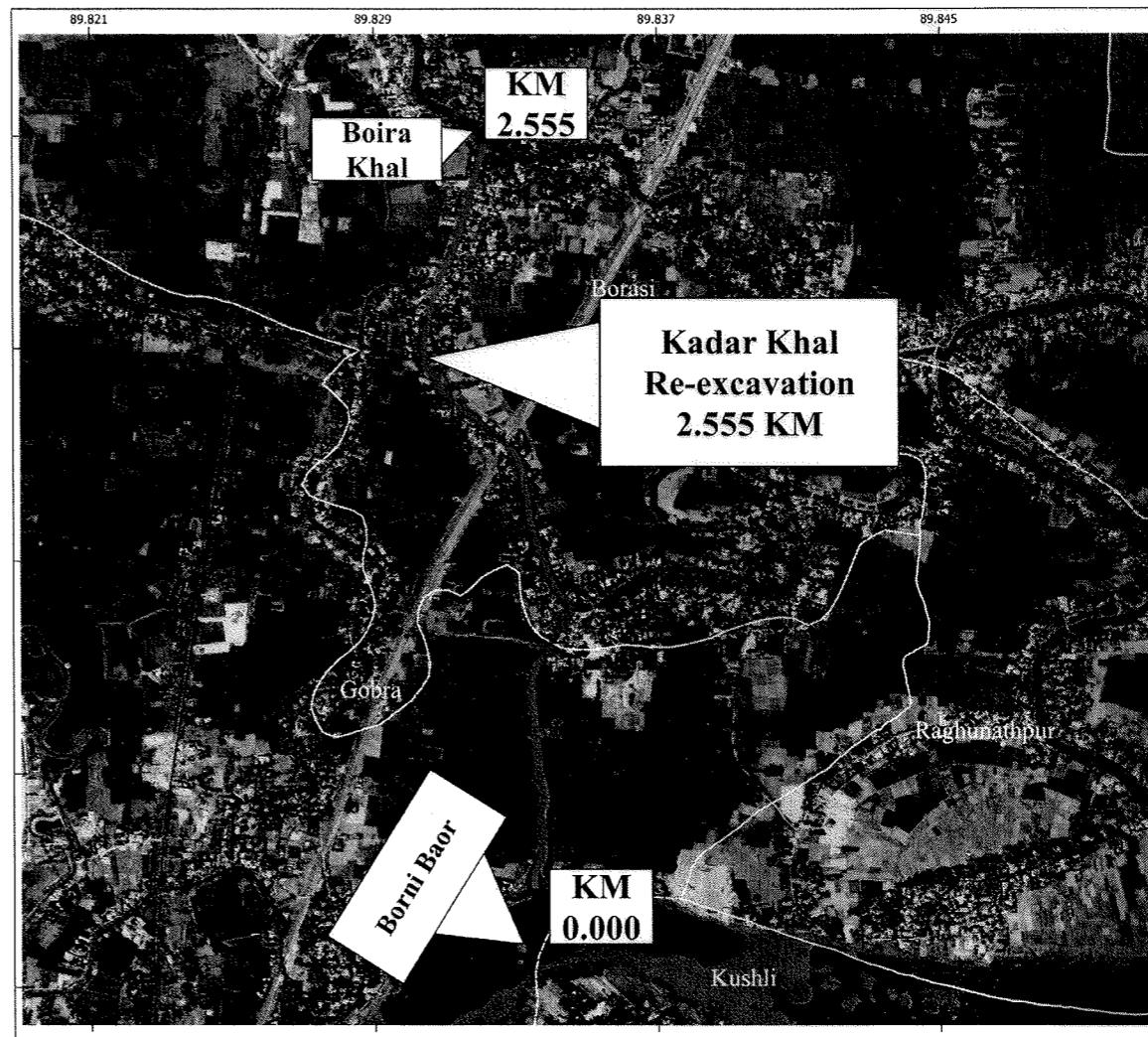
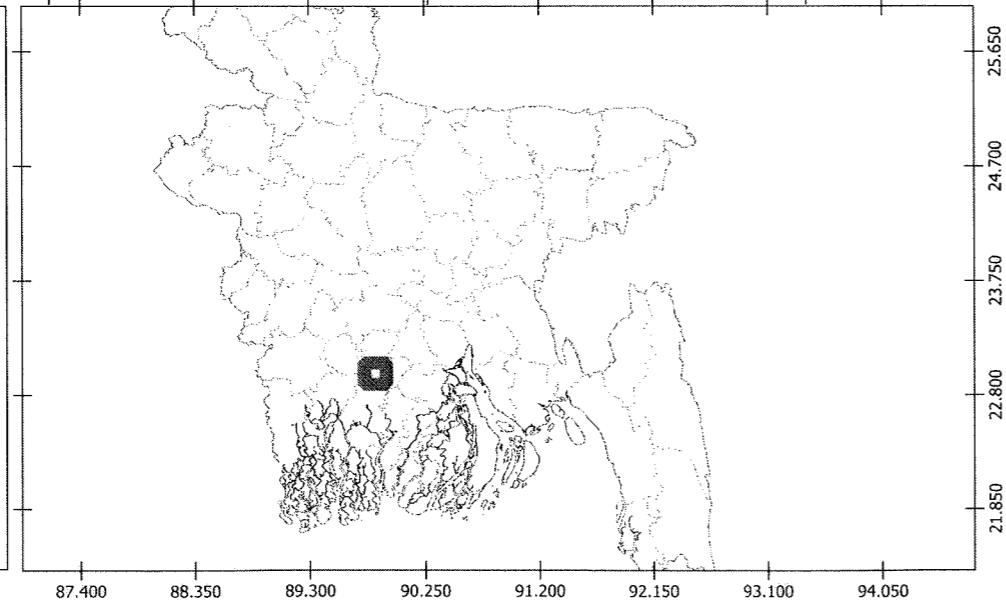
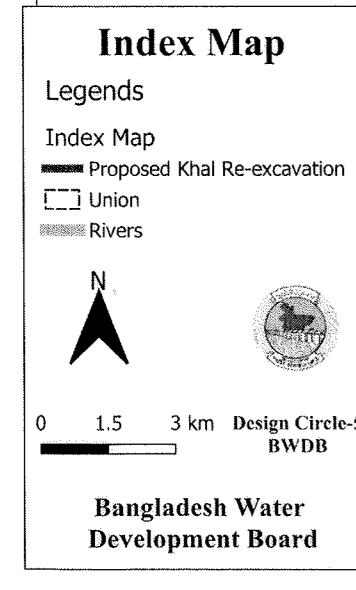
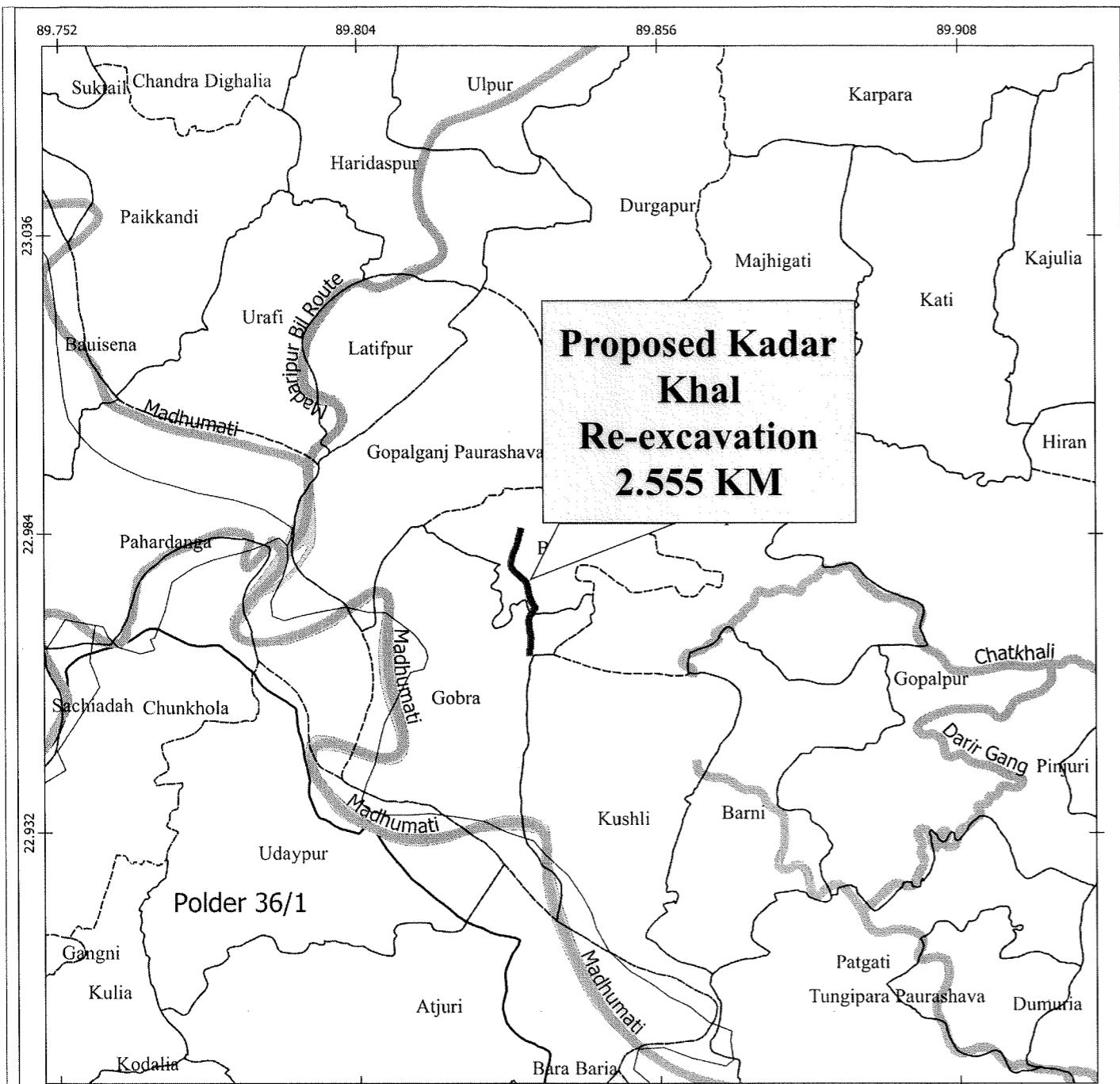
CRISP-WRM

Re-excavation of Kadar Khal from km. 0.000 to km. 2.555 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



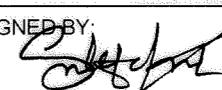
Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
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INDEX MAP & SITE MAP FOR KADAR KHAL	
DESIGNED BY: (MD. MOSTAFA KAMAL), AE	APPROVED BY: (JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY: (MD. KAMRUL HASAN), EE	
Date: 23/2/2025	Drawing No: DC5-5795-01/17

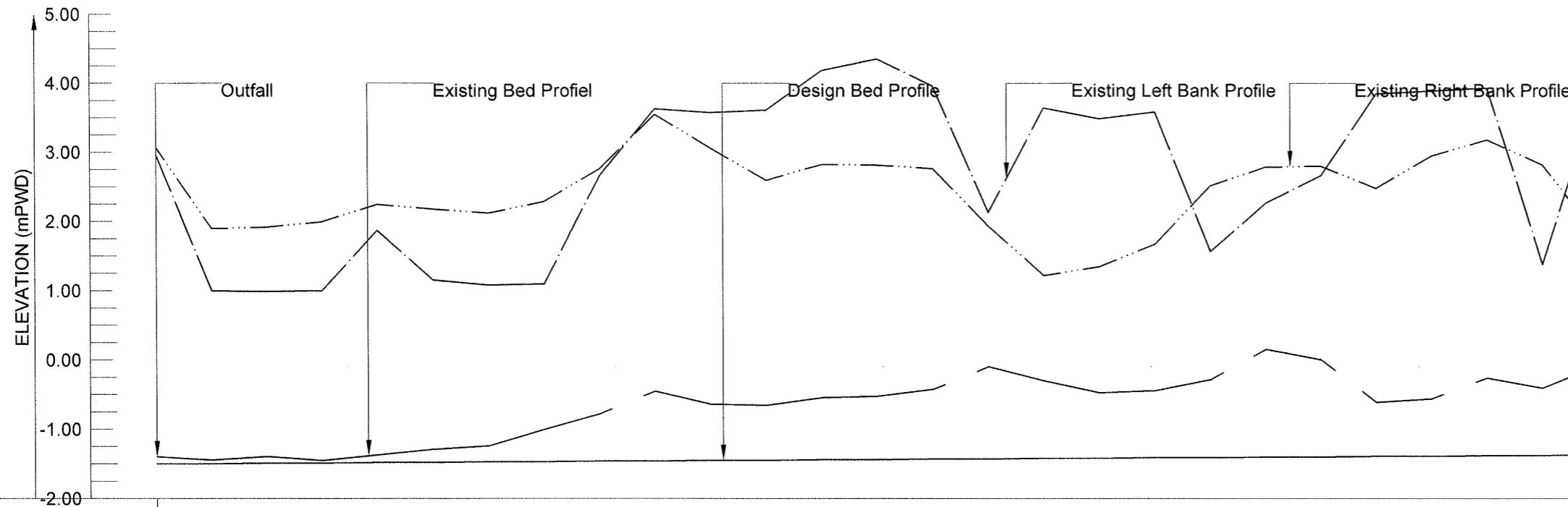
Administrative Notes :

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 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-WRMHS 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.

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NOTES FOR KADAR 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:DC5-5795-02/17



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	2.950	3.060	(-)1.399	(-)1.500	
0.100	0.995	1.895	(-)1.445		
0.200	0.985	1.915	(-)1.395	(-)1.490	
0.300	0.998	1.994	(-)1.452		
0.400	1.868	2.243	(-)1.372	(-)1.480	
0.500	1.153	2.178	(-)1.293		
0.600	1.079	2.119	(-)1.241	(-)1.470	
0.700	1.095	2.286	(-)1.004		
0.800	2.660	2.760	(-)0.780	(-)1.460	
0.900	3.629	3.549	(-)0.451		
1.000	3.575	3.059	(-)0.641	(-)1.450	
1.100	3.608	2.593	(-)0.657		
1.200	4.184	2.824	(-)0.546	(-)1.440	
1.300	4.353	2.813	(-)0.526		
1.400	3.963	2.764	(-)0.426	(-)1.430	
1.500	2.131	1.933	(-)0.099		
1.600	3.641	1.217	(-)0.303	(-)1.420	
1.700	3.485	1.345	(-)0.475		
1.800	3.582	1.670	(-)0.447	(-)1.410	
1.900	1.566	2.516	(-)0.284		
2.000	2.266	2.788	0.153	(-)1.400	
2.100	2.662	2.798	0.002		
2.200	3.848	2.477	(-)0.612	(-)1.390	
2.300	3.889	2.948	(-)0.562		
2.400	3.934	3.180	(-)0.260	(-)1.380	
2.500	1.376	2.817	(-)0.408		
2.555	2.756	2.251	(-)0.233	(-)1.370	

LONG SECTION OF KADAR KHAL APPLICABLE FROM KM 0.000 TO KM 2.555

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LONG SECTION OF KADAR KHAL

DESIGNED BY:

(MD. MOSTAFA KAMAL),AE

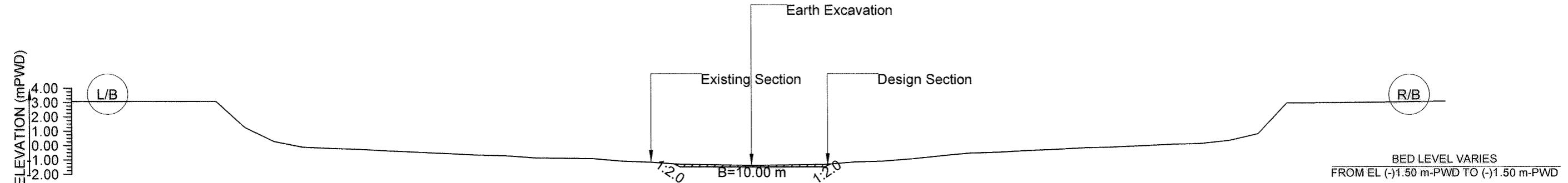
APPROVED BY:

26/02/2025
(JAKARIA PERVEZ),SECHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN),EE

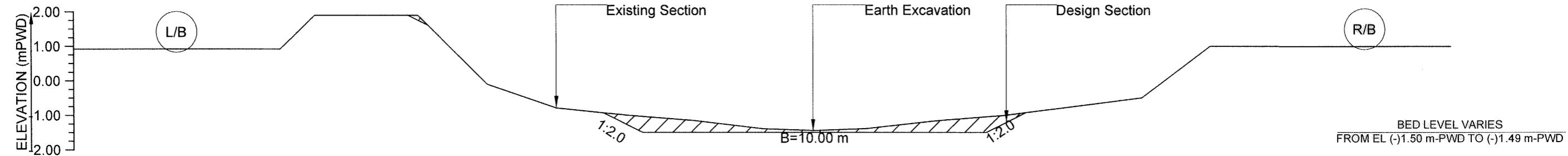
Date: 23/2/2025

Drawing No: DC5-5795-03/17



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
3.068	3.065	0.000
3.068	3.065	5.000
3.068	3.060	10.000
3.068	2.931	12.000
3.068	2.259	14.000
3.068	1.134	16.000
3.068	-0.224	18.000
3.068	-0.304	20.000
3.068	-0.414	22.000
3.068	-0.584	24.000
3.068	-0.679	26.000
3.068	-1.105	28.000
3.068	-1.179	30.000
3.068	-1.500	32.000
3.068	-1.500	36.000
3.068	-1.500	38.000
3.068	-1.500	40.000
3.068	-1.500	41.581
3.068	-1.500	47.000
3.068	-1.500	52.000
3.068	-1.63	54.000
3.068	-1.107	56.000
3.068	-0.940	58.000
3.068	-0.539	60.000
3.068	-0.479	64.000
3.068	-0.369	66.000
3.068	-0.279	68.000
3.068	-0.169	70.000
3.068	-0.114	72.000
3.068	-0.024	74.000
3.068	0.070	76.000
3.068	0.121	78.000
3.068	0.331	80.000
3.068	0.800	82.000
3.068	2.950	84.000
3.068	2.985	86.000
3.068	3.000	88.000
3.068	3.000	90.000
3.068	3.000	95.000

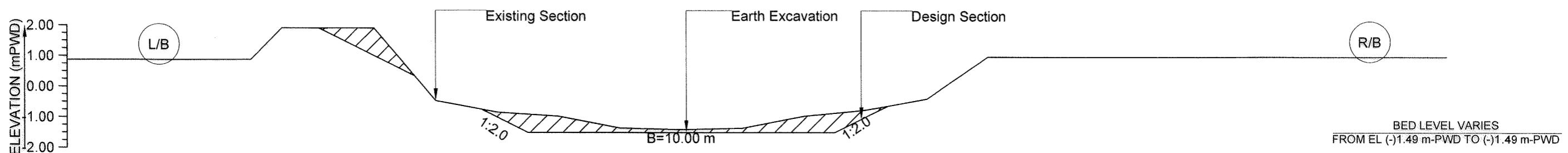
TYPICAL CROSS SECTION OF KADAR KHAL AT KM 0.000
APPLICABLE FROM KM 0.000 TO KM 0.050



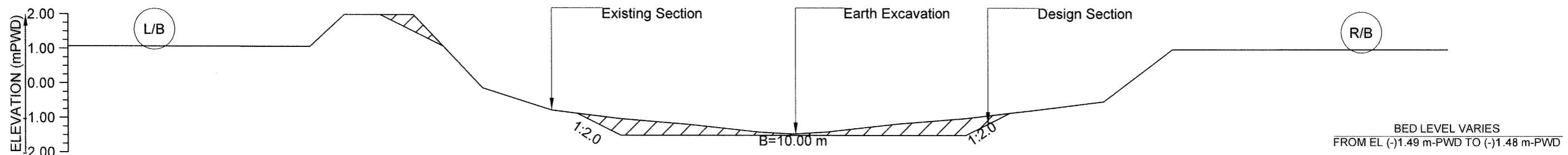
Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
0.920	0.920	0.000
0.920	0.915	6.000
0.920	1.890	7.000
0.920	1.895	10.000
0.920	-0.105	12.000
0.920	-0.796	14.000
0.920	-0.932	15.363
0.920	-0.988	15.932
0.920	-1.035	16.500
0.920	-1.500	18.000
0.920	-1.556	20.000
0.920	-1.500	21.500
0.920	-1.500	23.000
0.920	-1.165	25.000
0.920	-1.010	26.500
0.920	-0.928	27.643
0.920	-0.756	29.000
0.920	-0.500	31.000
0.920	0.995	33.000
0.920	0.990	35.000
0.920	0.985	40.000

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

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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:DC5-5795-04/17



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



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

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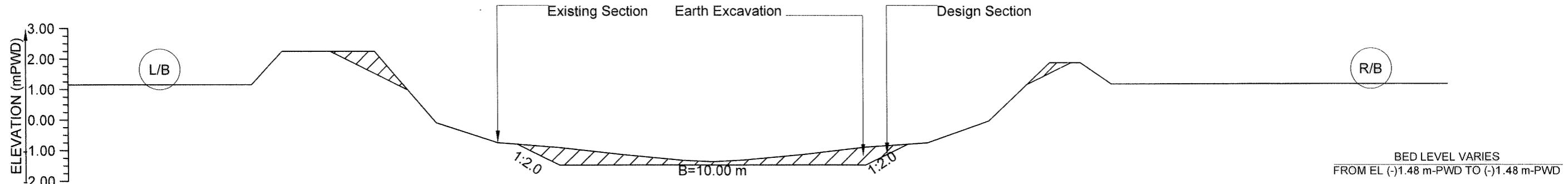
20/10/2020
(JAKARIA PERVEZ),SE

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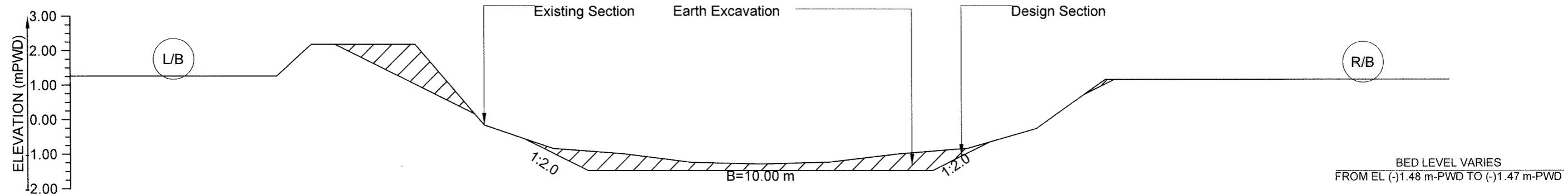
(MD. KAMRUL HASAN),EE

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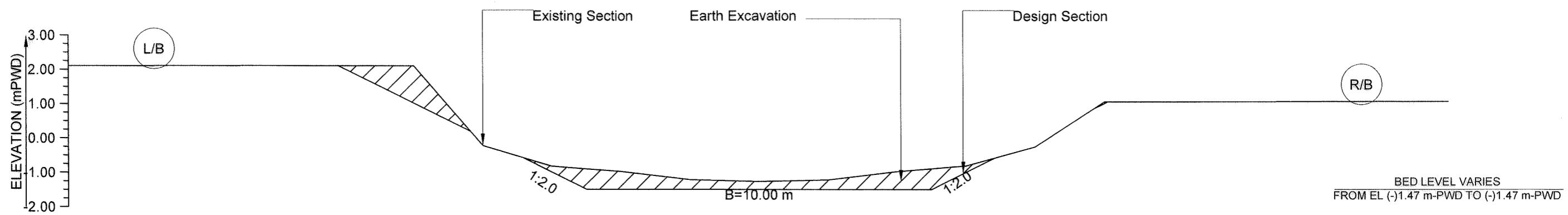


TYPICAL CROSS SECTION OF KADAR KHAL AT KM 0.400
APPLICABLE FROM KM 0.350 TO KM 0.450



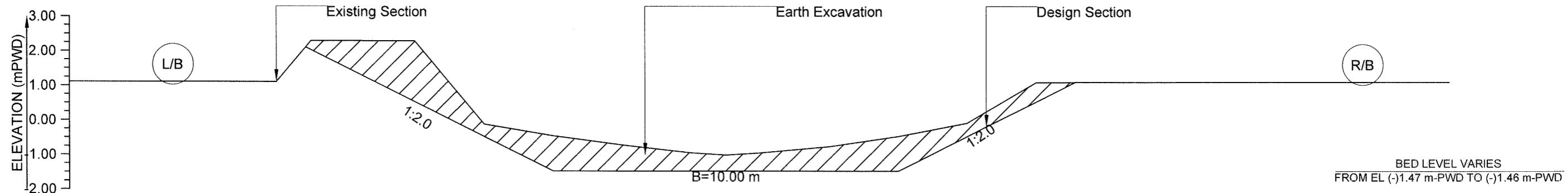
TYPICAL CROSS SECTION OF KADAR KHAL AT KM 0.500
APPLICABLE FROM KM 0.450 TO KM 0.550

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(MD. MOSTAFA KAMAL), AE	(JAKARIA PERVEZ), SE
CHECKED AND RECOMMENDED BY: 	26/02/2024
(MD. KAMRUL HASAN), EE	
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Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	2.089
Distance(m)	0.000 2.114
10.000 2.119	
12.000 (-0.206)	
13.165 (-0.553)	
14.000 (-0.801)	
15.000 (-0.877(-)1.470)	
16.000 (-0.952)	
18.000 (-1.192)	
20.000 (-1.241(-)1.470)	
22.000 (-1.193)	
24.000 (-0.953)	
25.000 (-0.869(-)1.470)	
25.915 (-0.792)	
26.830 (-0.555)	
28.000 (-0.231)	
30.000 1.079	
35.000 1.084	
40.000 1.089	

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



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	1.111
Distance(m)	0.000 1.106
6.000 1.106	
6.843 2.108	
10.000 2.286	
10.422 1.780	
12.000 (-0.115)	
14.000 (-0.454(-)1.470)	
16.000 (-0.715)	
18.000 (-0.946)	
19.000 (-1.004(-)1.470)	
20.000 (-0.945)	
22.000 (-0.764)	
24.000 (-0.468(-)1.470)	
26.000 (-0.084)	
26.567 0.250	
28.000 1.095	
29.134 1.097	
35.000	
40.000	

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

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TYPICAL CROSS SECTION OF KADAR KHAL

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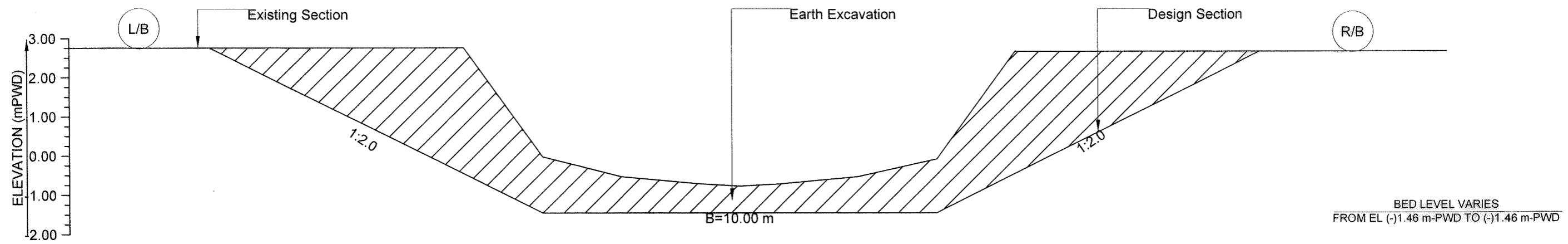
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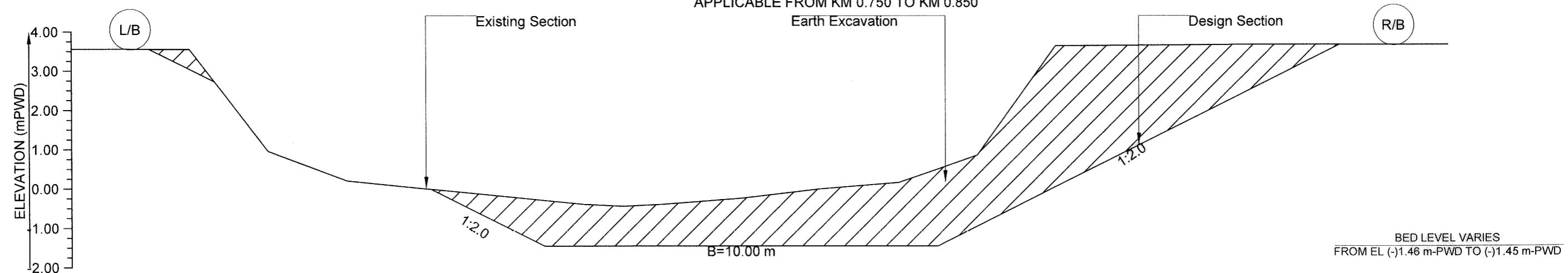
(MD. KAMRUL HASAN), EE

Date: 23/2/2025

Drawing No: DC5-5795-07/17



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



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

Bangladesh Water Development Board

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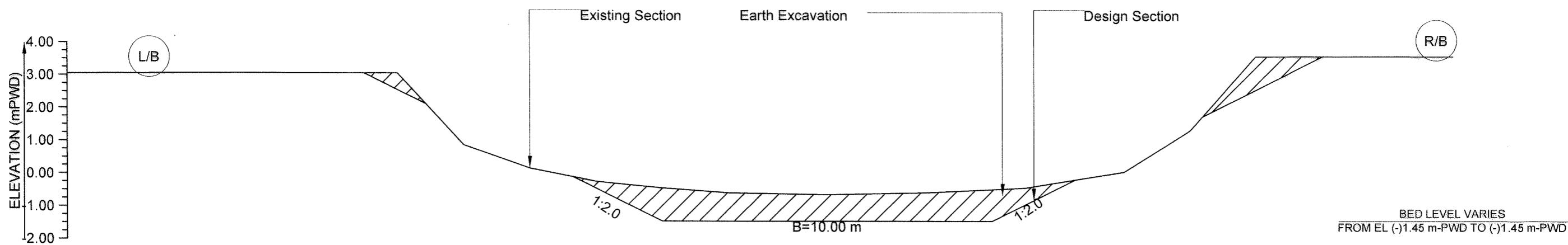
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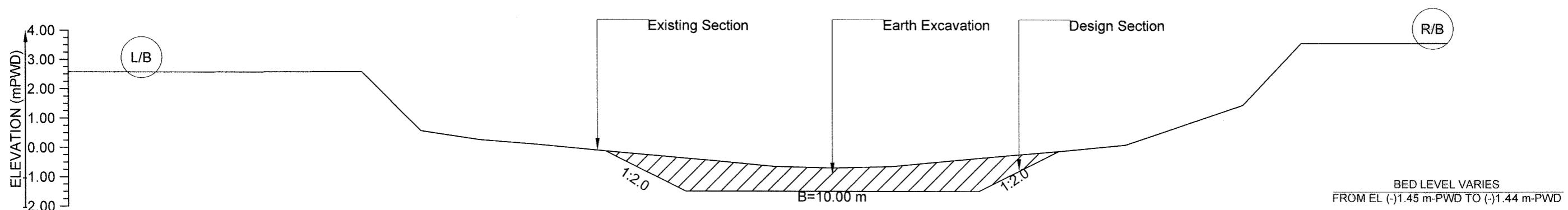
26/02/2024
(JAKARIA PERVEZ),SE

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



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

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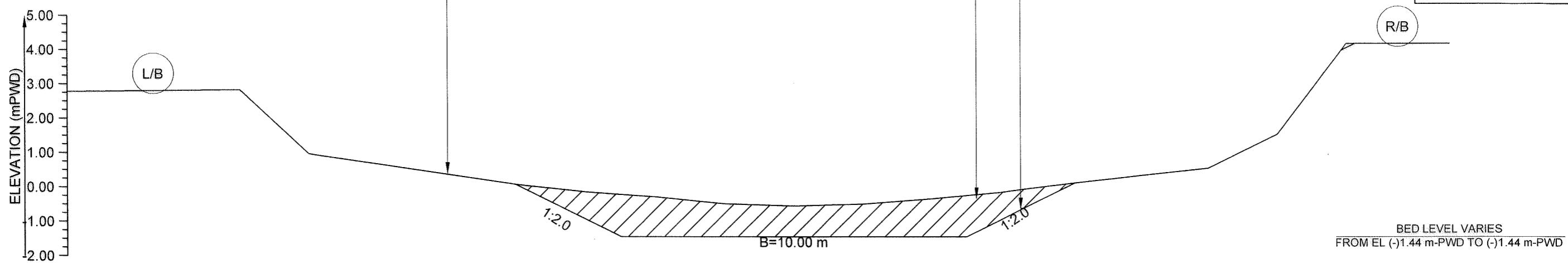
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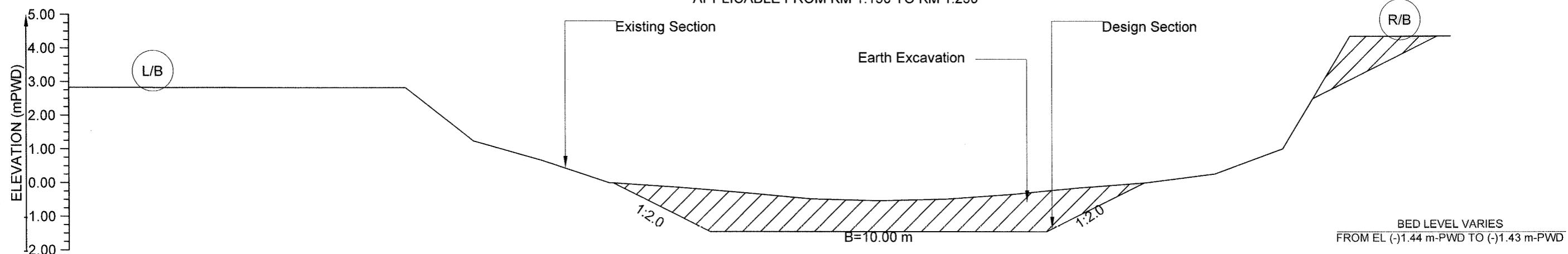
20/02/2025
(JAKARIA PERVEZ), SE

CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE



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



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

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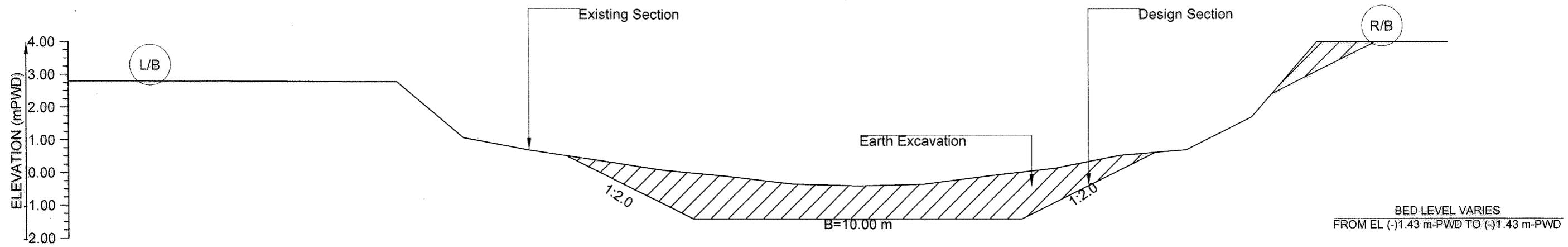
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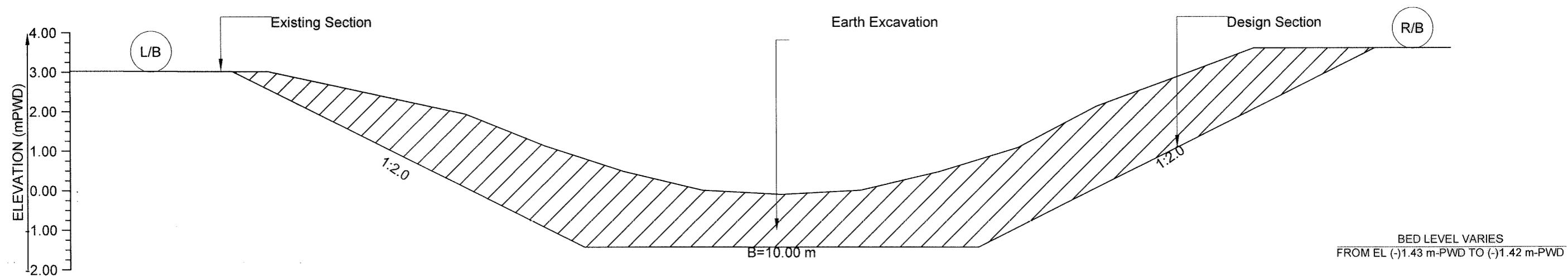
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TYPICAL CROSS SECTION OF KADAR KHAL AT KM 1.400
APPLICABLE FROM KM 1.350 TO KM 1.450



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

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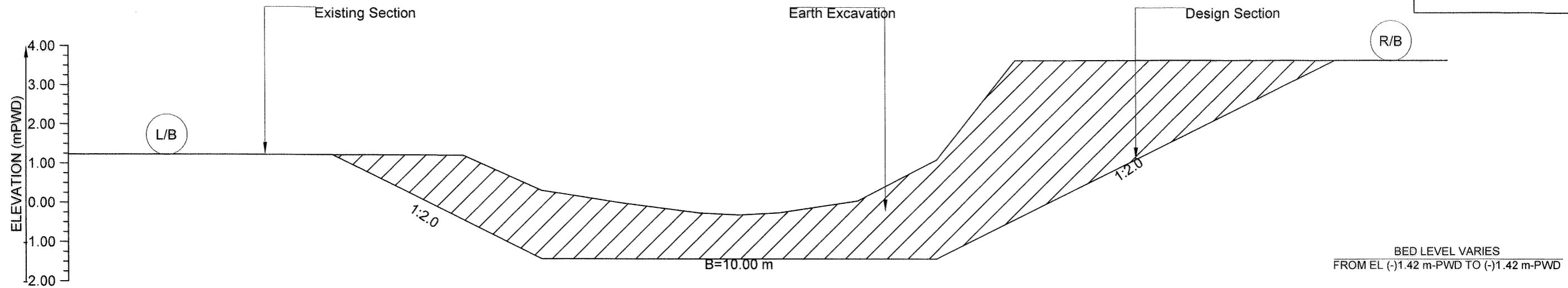
(MD. MOSTAFA KAMAL), AE

APPROVED BY:

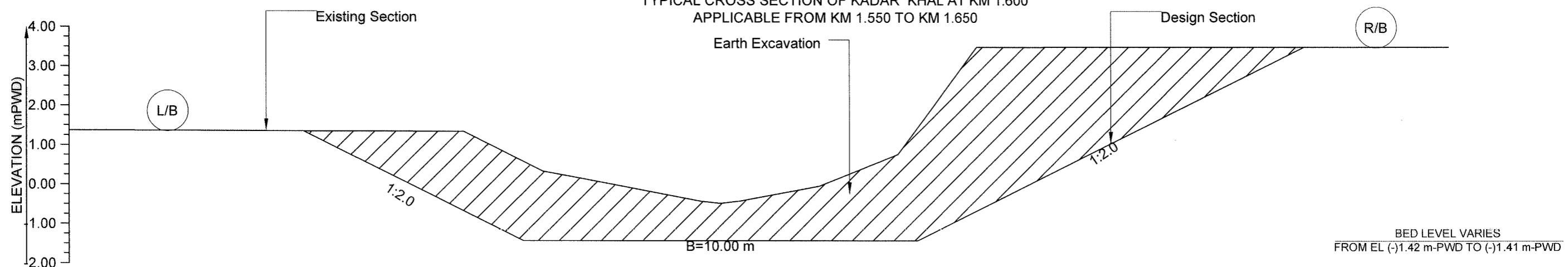
20/02/2024
(JAKARIA PERVEZ), SE

CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	1.232
Distance(m)	0.000 1.227 5.000 6.713 1.224 10.000 1.217 12.000 0.317 (-1.420) 14.000 0.007 16.000 (-0.253) 17.000 (-0.303) (-1.420) 18.000 (-0.251) 20.000 0.056 22.000 1.102 24.000 3.641 26.067 3.649 28.000 3.652 30.000 3.647 32.134 35.000



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	1.355
Distance(m)	0.000 1.348 5.954 1.353 8.727 1.348 10.000 1.345 11.500 0.591 (-1.420) 12.000 0.340 14.000 (-0.035) 16.000 (-0.423) 17.000 (-0.475) (-1.420) 19.000 (-0.041) 21.000 0.760 21.500 1.441 (-1.420) 23.000 3.485 26.414 3.494 27.000 3.494 31.328 35.000

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

**TYPICAL CROSS SECTION OF KADAR KHAL AT KM 1.700
APPLICABLE FROM KM 1.650 TO KM 1.750**

Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

Re-excavation of Kadar Khal from km. 0.000 to km. 2.555 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 KADAR KHAL

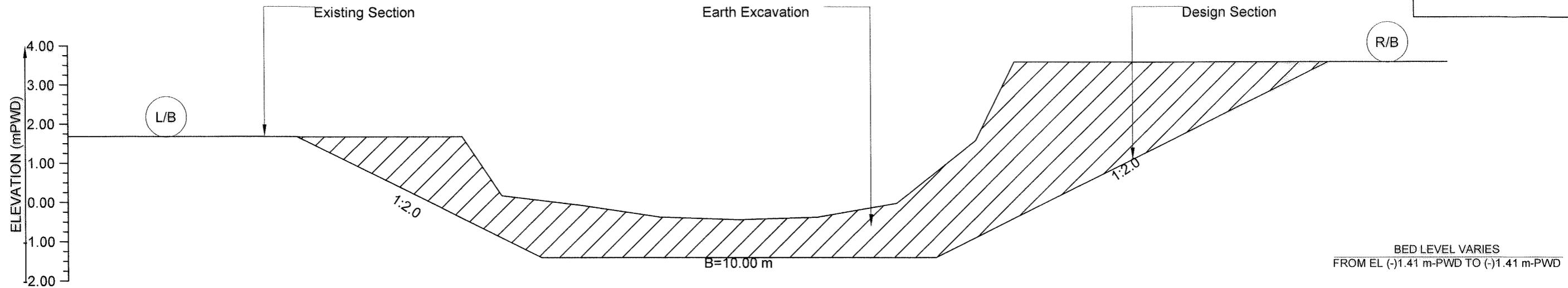
DESIGNED BY:

(MD. MOSTAFA KAMAL), AEAPPROVED BY:

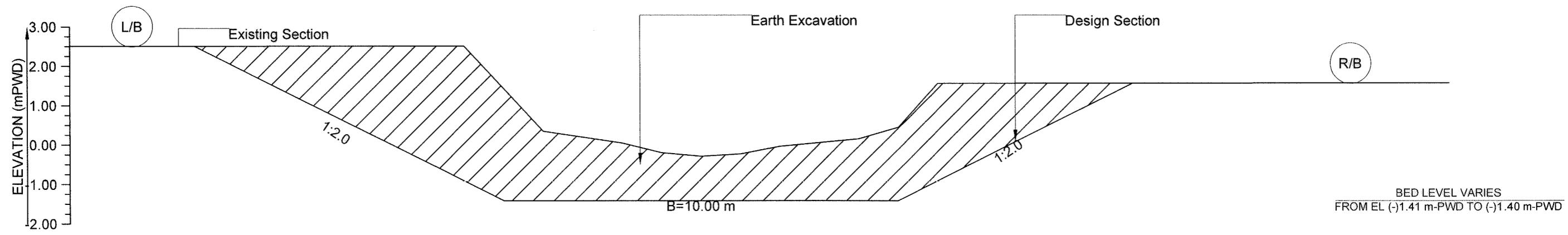
(JAKARIA PERVEZ), SECHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE

Date: 23/2/2025 Drawing No: DC5-5795-12/17



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



TYPICAL CROSS SECTION OF KADAR 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

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TYPICAL CROSS SECTION OF KADAR KHAL

DESIGNED BY:

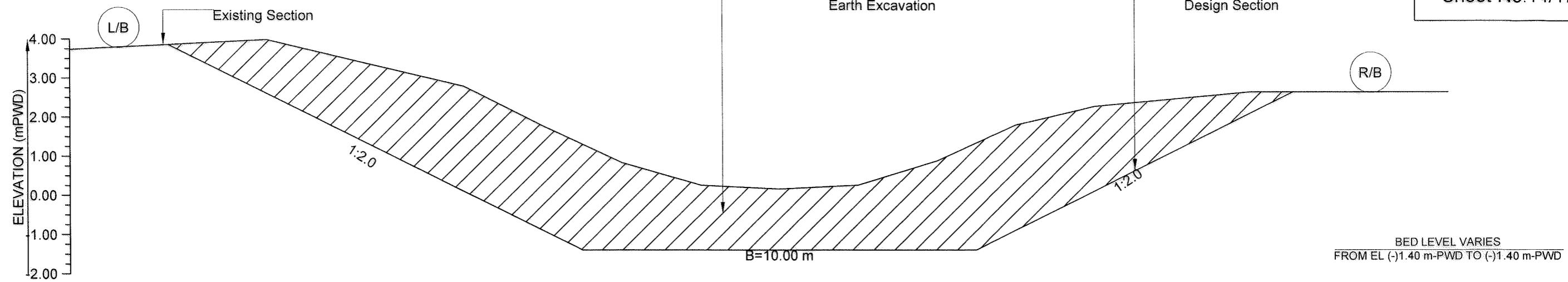
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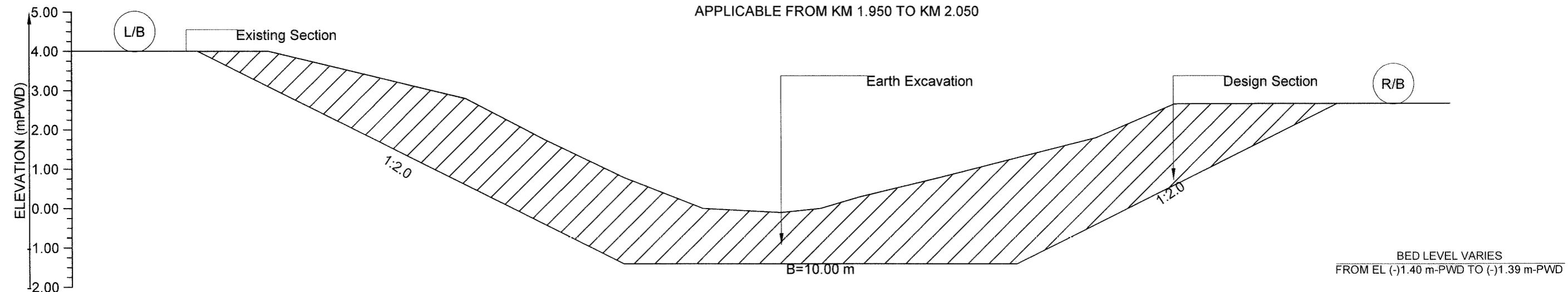
20/02/2025
(JAKARIA PERVEZ), SE

CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE



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



TYPICAL CROSS SECTION OF KADAR 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

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TYPICAL CROSS SECTION OF KADAR KHAL

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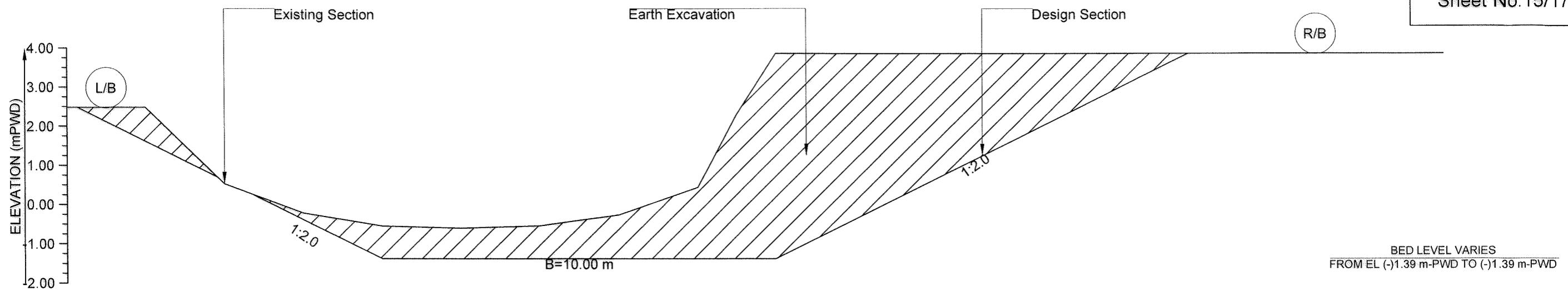
(MD. MOSTAFA KAMAL), AE

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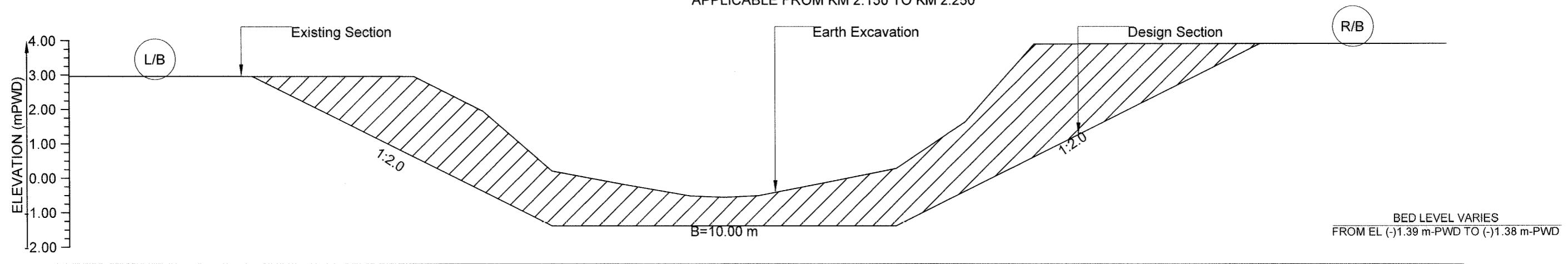
26/02/2024
(JAKARIA PERVEZ), SE

CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE



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



TYPICAL CROSS SECTION OF KADAR 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

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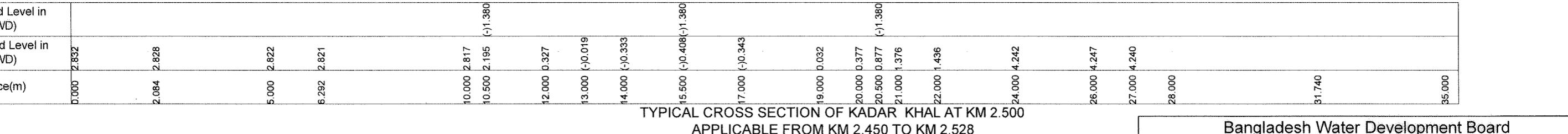
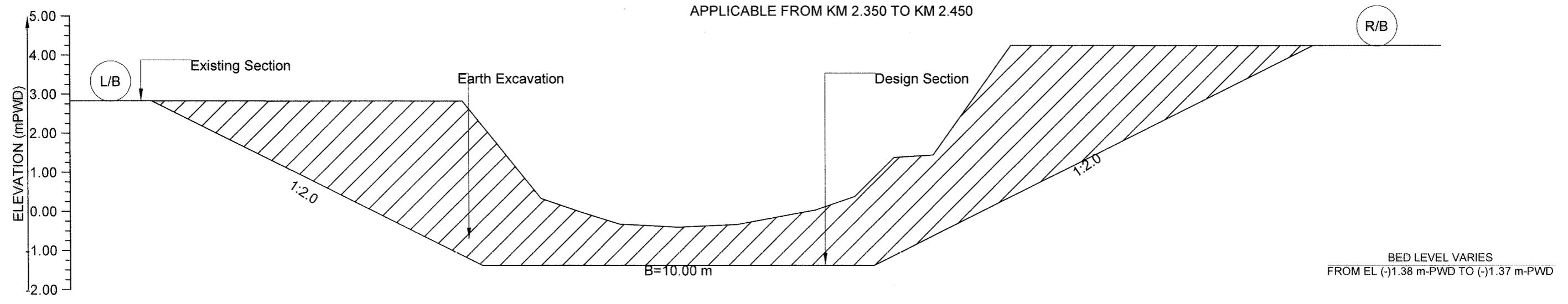
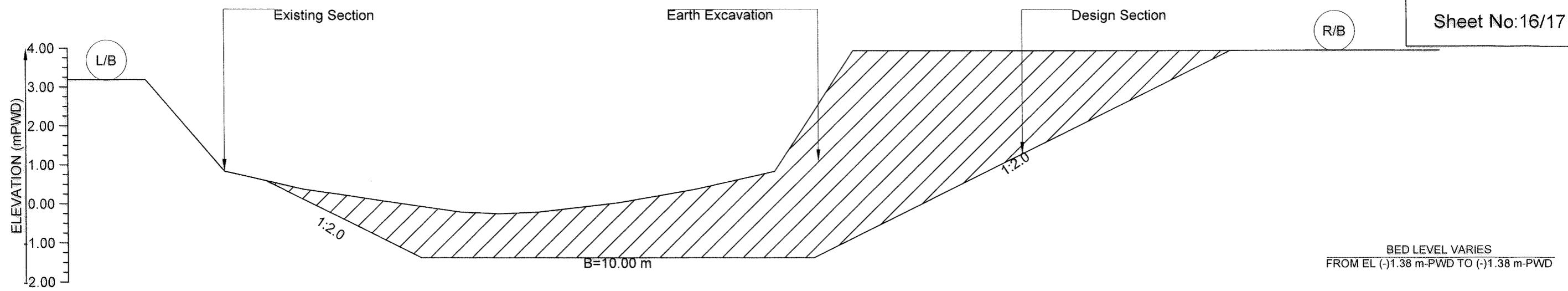
APPROVED BY:

25/02/2024

CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE

(JAKARIA PERVEZ), SE



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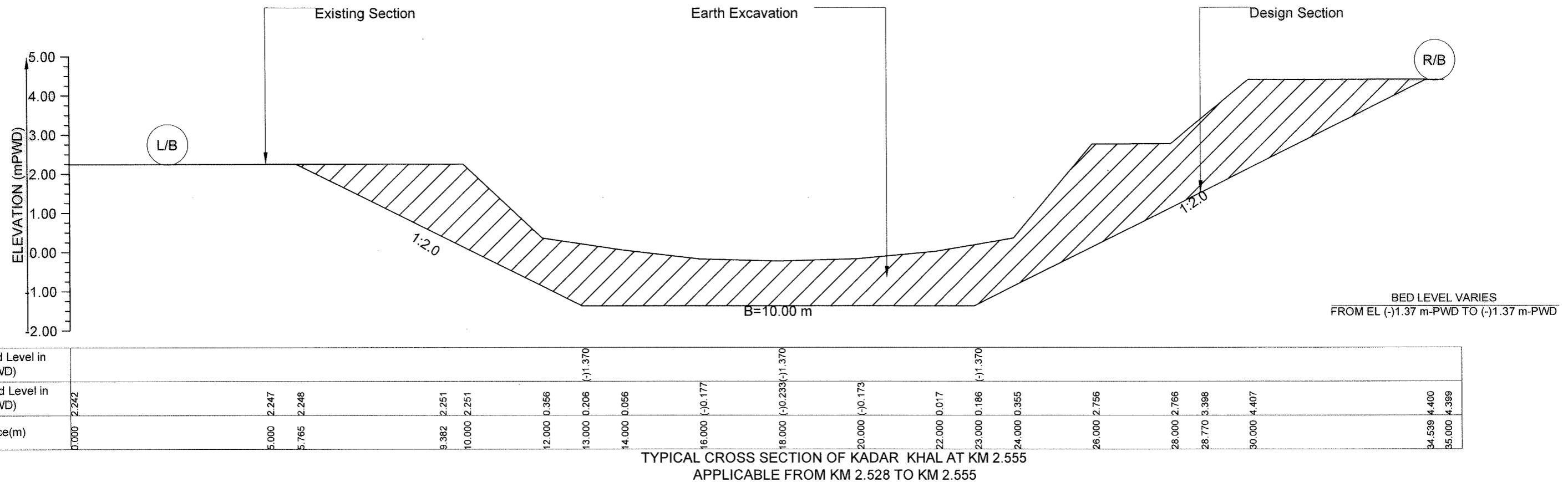
APPROVED BY:

(JAKARIA PERVEZ), SE

CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE

Date: 23/2/2025 Drawing No: DC5-5795-16/17



Bangladesh Water Development Board	
Office of The Superintending Engineer,Design Circle-5	
CRISP-WRM	
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DESIGNED BY: 	APPROVED BY:
(MD. MOSTAFA KAMAL),AE	(JAKARIA PERVEZ),SE
CHECKED AND RECOMMENDED BY: 	
(MD. KAMRUL HASAN),EE	
Date:23/2/2025	Drawing No:DC5-5795-17/17