

Bangladesh Water Development Board

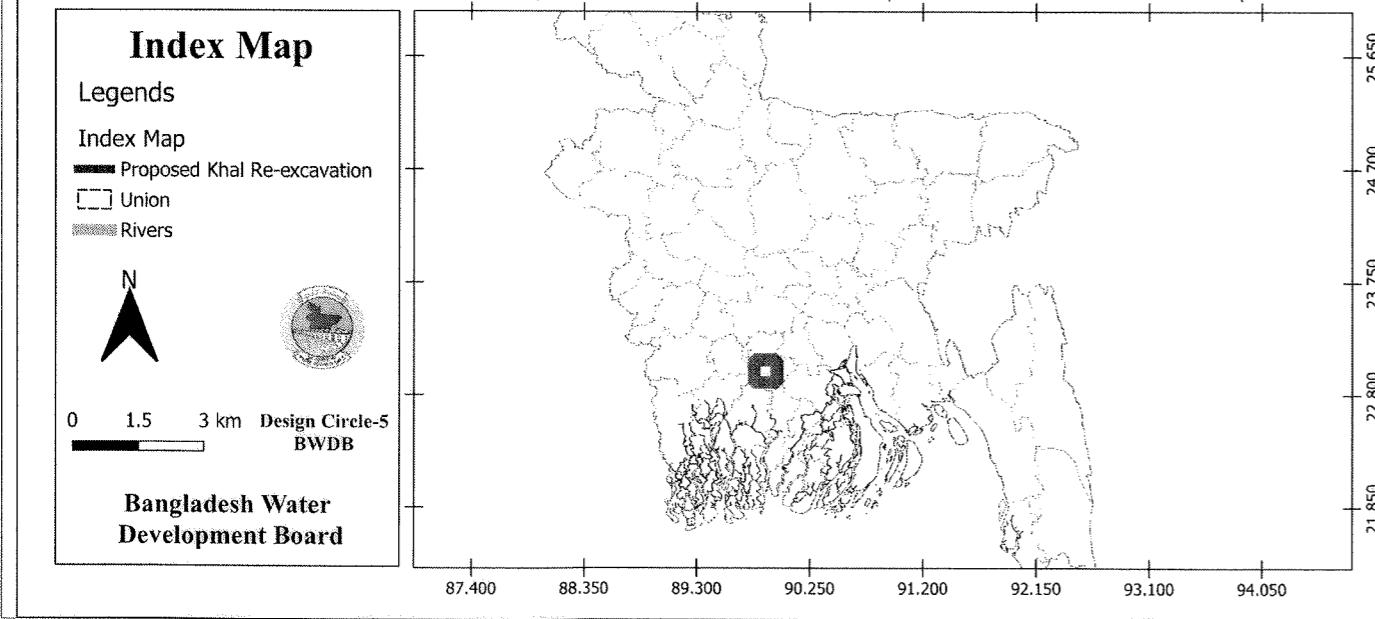
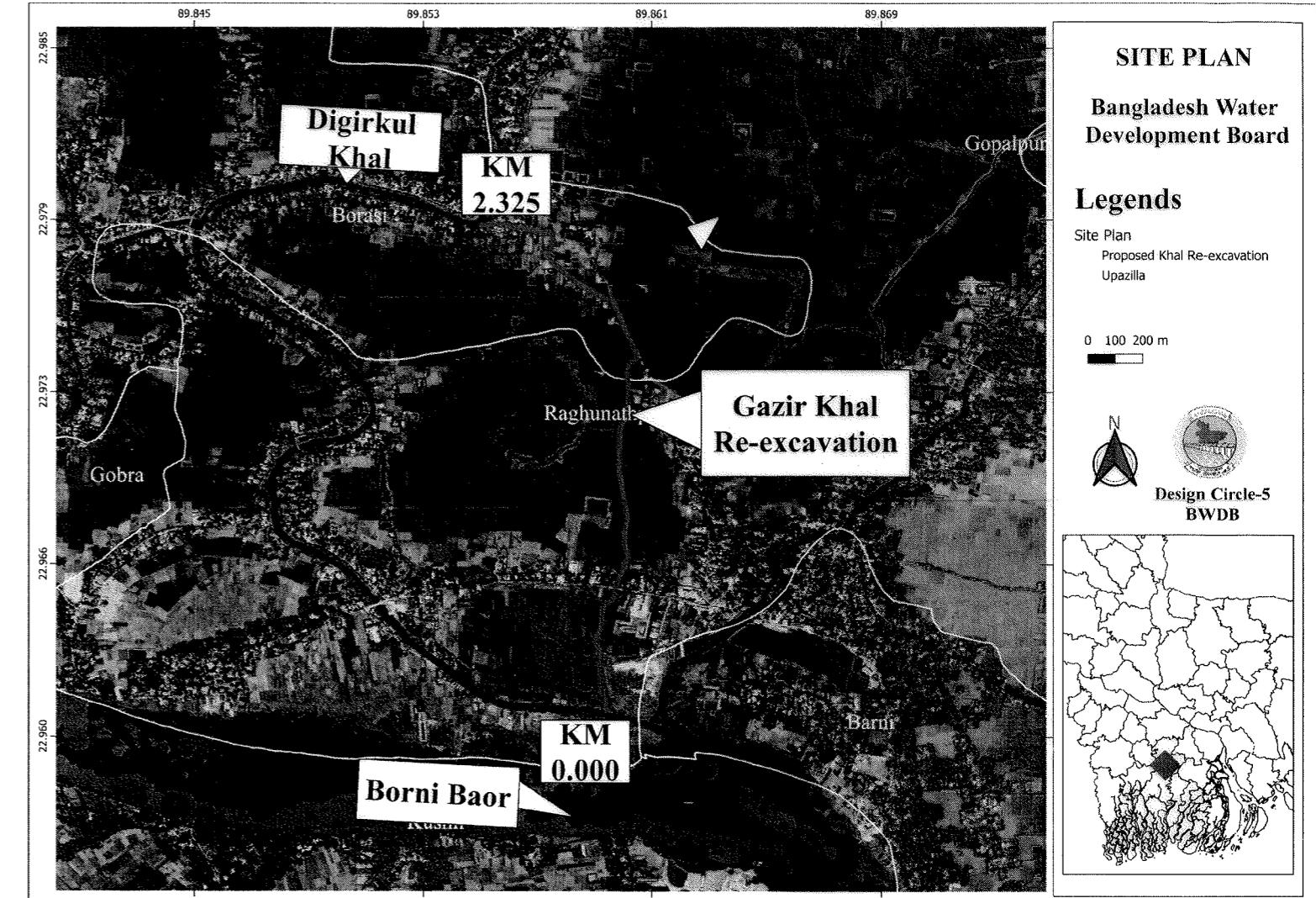
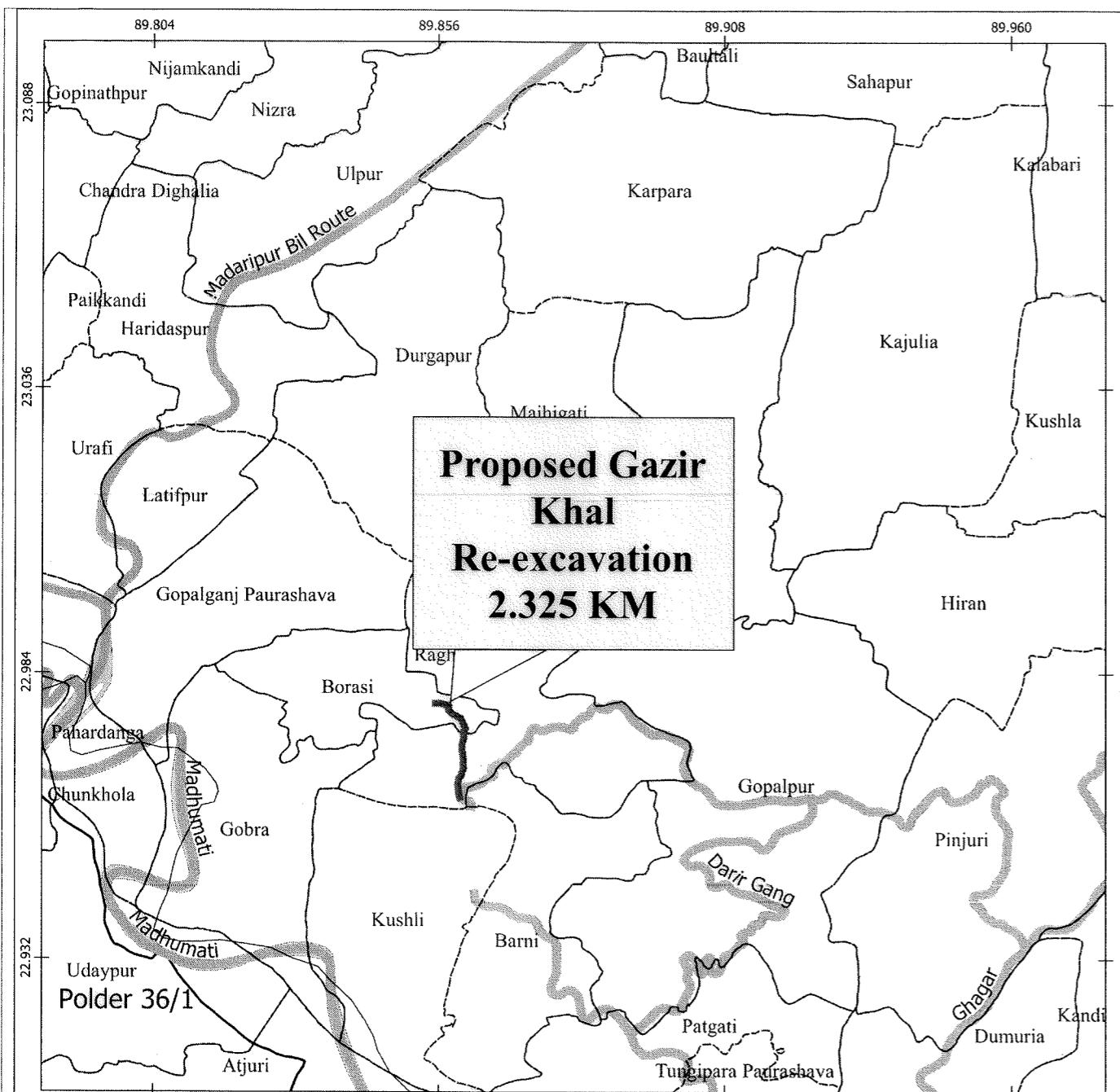
CRISP-WRM

Re-excavation of Gazir Khal from km. 0.000 to km. 2.325 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



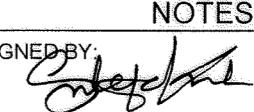
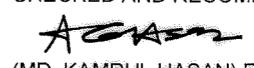
Bangladesh Water Development Board	
Office of The Superintending Engineer, Design Circle-5	
CRISP-WRM	
Re-excavation of Gazir Khal from km. 0.000 to km. 2.325 in polder -2 in c/w Tarail-Pachuria Sub-Project under CRISP-WRM under Specialized Division, BWDB, Gopalganj during the year 2024-2025	
INDEX MAP & SITE MAP FOR GAZIR 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:DC5-5775-01/15

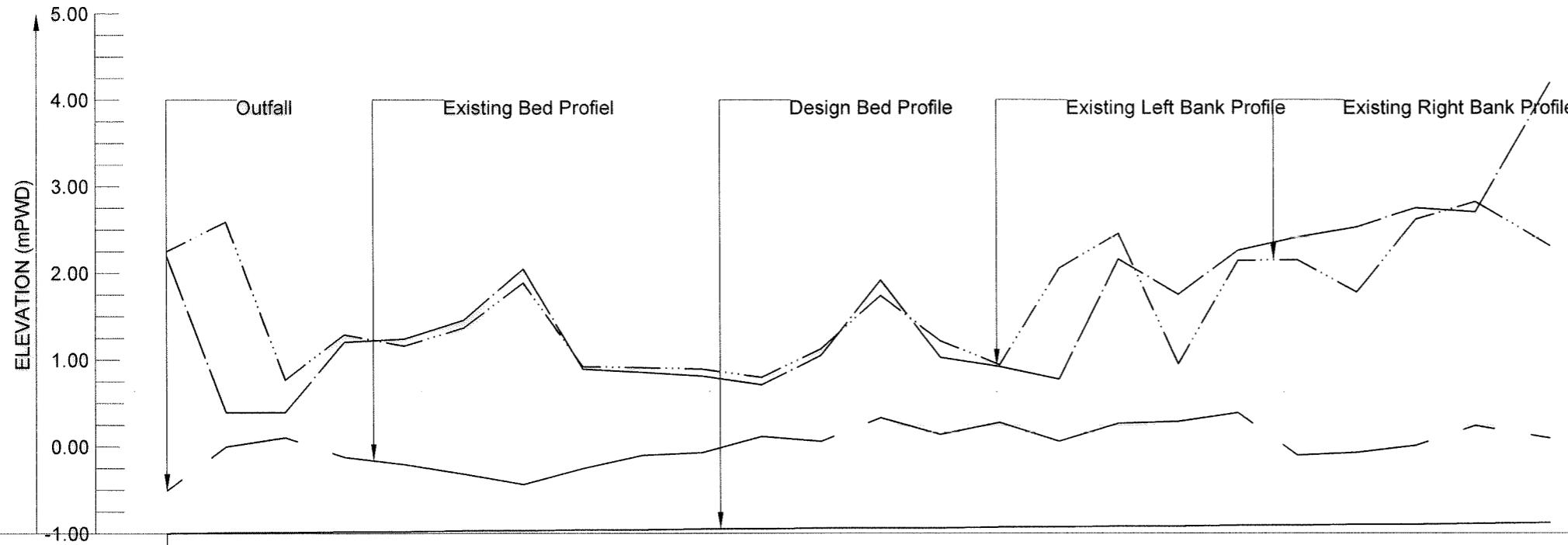
Administrative Notes :

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/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.

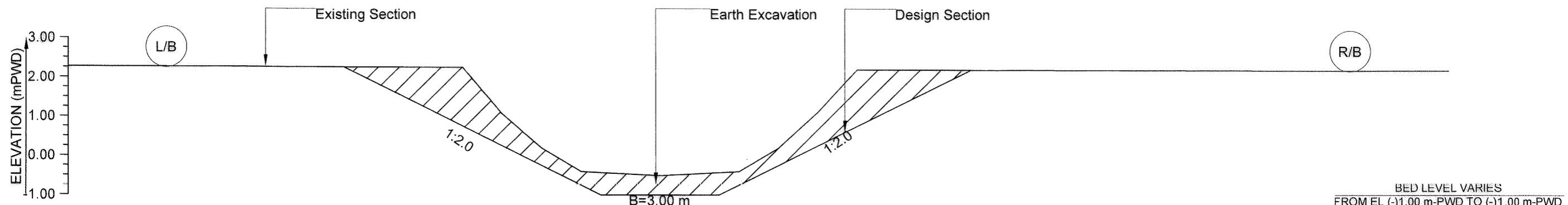
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Office of The Superintending Engineer,Design Circle-5	
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NOTES FOR GAZIR KHAL	
DESIGNED BY:  (MD.MOSTAFA KAMAL),AE	APPROVED BY:  04.02.25 (JAKARIA PERVEZ),SE
CHECKED AND RECOMMENDED BY:  (MD. KAMRUL HASAN),EE	
Date:04/02/2025	Drawing No:DC5-5775-02/15



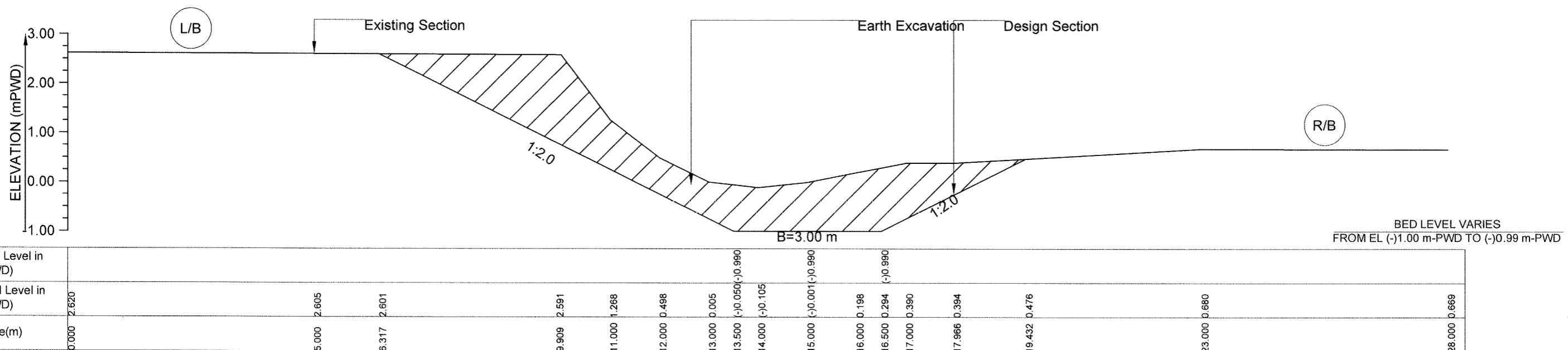
Design Bed Width(m)	Design Bed Level (mPWD)	Existing Bed Level (mPWD)	Existing Left Bank Level (mPWD)	Existing Right Bank Level (mPWD)	Distance(Km)
0.000	2.193	2.248	(-0.507)	(-1.000)	
0.100	0.394	2.591	(-0.001)	(-0.990)	
0.200	0.768	0.104	(-0.124)	(-0.980)	
0.300	1.202	1.290	(-0.207)	(-0.970)	
0.400	1.242	1.159	(-0.254)	(-0.960)	
0.500	1.456	1.367	(-0.318)	(-0.970)	
0.600	2.047	1.884	(-0.440)	(-0.960)	
0.700	0.890	0.921	(-0.254)	(-0.960)	
0.800	0.855	0.909	(-0.103)	(-0.950)	
0.900	0.811	0.891	(-0.071)	(-0.950)	
1.000	0.711	0.795	0.114		
1.100	1.050	1.127	0.056	(-0.940)	
1.200	1.916	1.740	0.330		
1.300	1.026	1.216	0.136		
1.400	0.921	0.941	0.275	(-0.930)	
1.500	0.774	2.053	0.058		
1.600	2.158	2.453	0.264	(-0.920)	
1.700	1.751	0.949	0.287		
1.800	2.257	2.141	0.387	(-0.910)	
1.900	2.410	2.150			
2.000	2.528	1.776	(-0.072)	(-0.900)	
2.100	2.749	2.615	0.009		
2.200	2.703	2.820	0.237	(-0.890)	
2.325	4.194	2.313	0.094	(-0.880)	

LONG SECTION OF GAZIR KHAL APPLICABLE FROM KM 0.000 TO KM 2.325

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LONG SECTION OF GAZIR KHAL
DESIGNED BY: (MD. MOSTATA KAMAL), AE
APPROVED BY: (JAKARIA PERVEZ), SE 04/02/25
CHECKED AND RECOMMENDED BY: (MD. KAMRUL HASAN), EE
Date: 04/02/2025 Drawing No: DC5-5775-03/15



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



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

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TYPICAL CROSS SECTION OF GAZIR KHAL

DESIGNED BY:

(MD. MOSTAFA KAMAL), AE

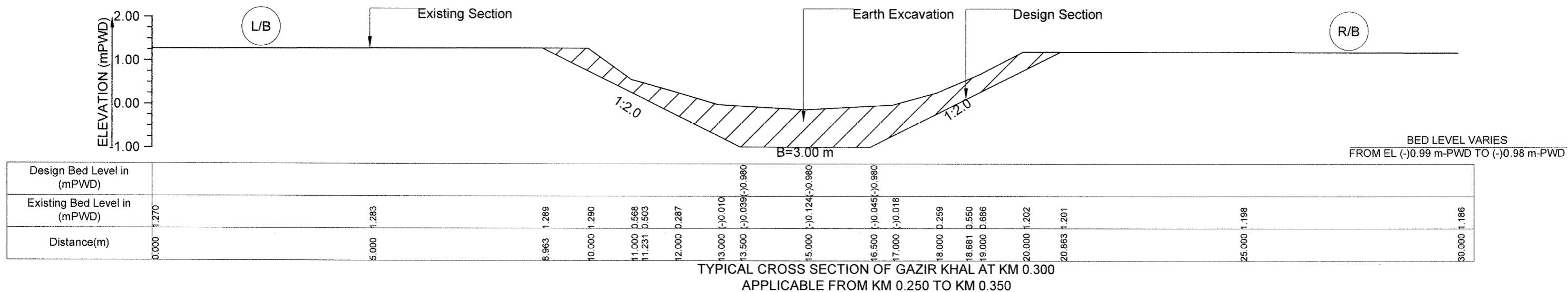
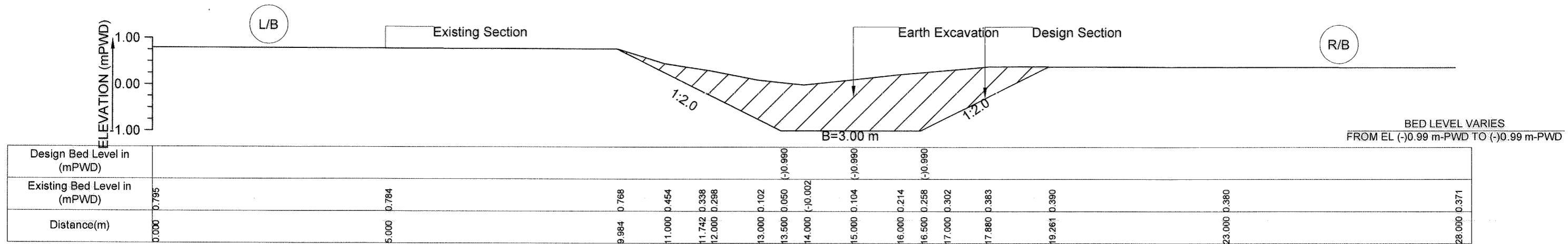
APPROVED BY:

(JAKARIA PERVEZ), SE

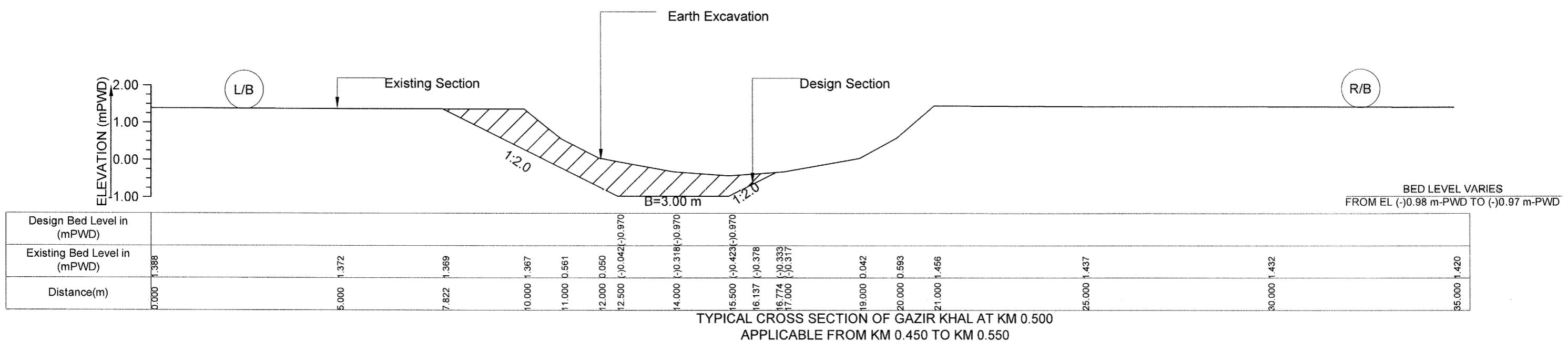
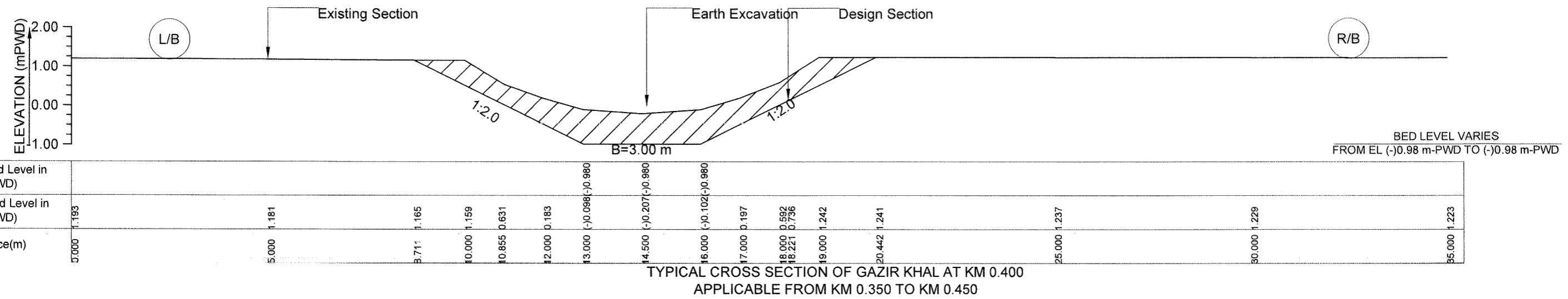
CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE

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TYPICAL CROSS SECTION OF GAZIR KHAL	
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CHECKED AND RECOMMENDED BY: (MD. KAMRUL HASAN), EE	
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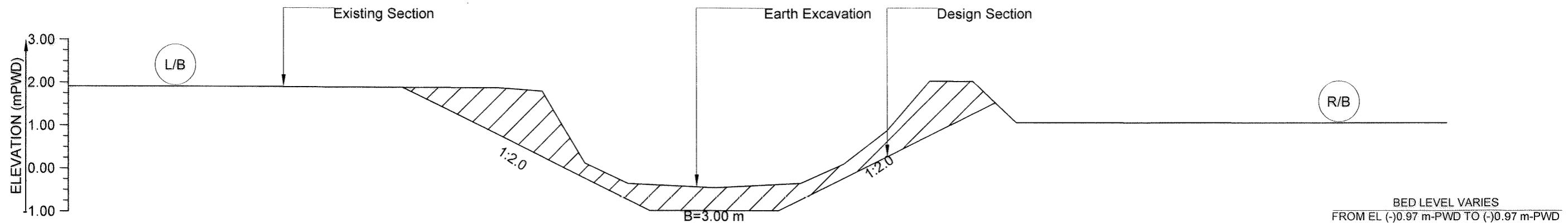
(MD. MOSTAFA KAMAL), AE

APPROVED BY:

04.02.25
(JAKARIA PERVEZ), SECHECKED AND RECOMMENDED BY:

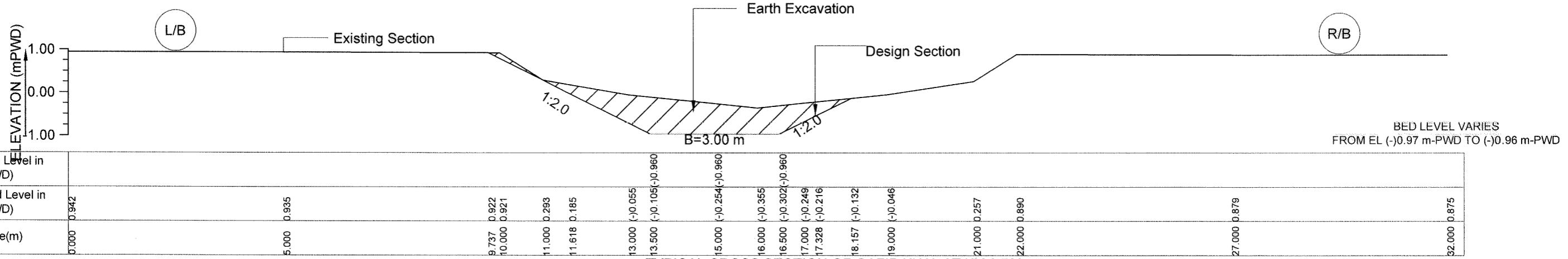
(MD. KAMRUL HASAN), EE

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Design Bed Level in (mPWD)	1.910	5.000	7.773	1.893	10.000	1.884	10.637	1.833	11.000	1.804	12.000	0.135	13.000	(-)0.340	13.500	(-)0.365	(-)0.970	15.000	(-)0.440	(-)0.970	16.500	(-)0.362	(-)0.970	17.000	(-)0.336	18.000	0.111	19.000	0.886	20.000	2.047	21.000	2.038	21.518	1.539	22.000	1.076	27.000	1.070	32.000	1.065
Existing Bed Level in (mPWD)																																									
Distance(m)	0.000																																								

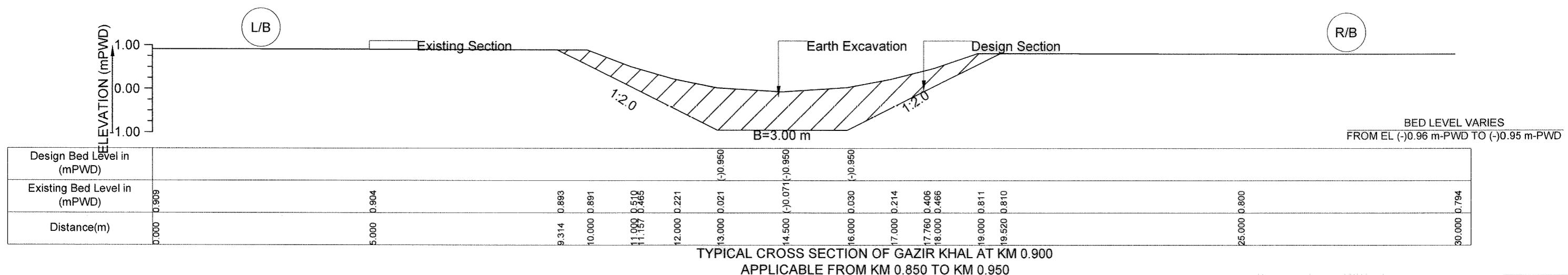
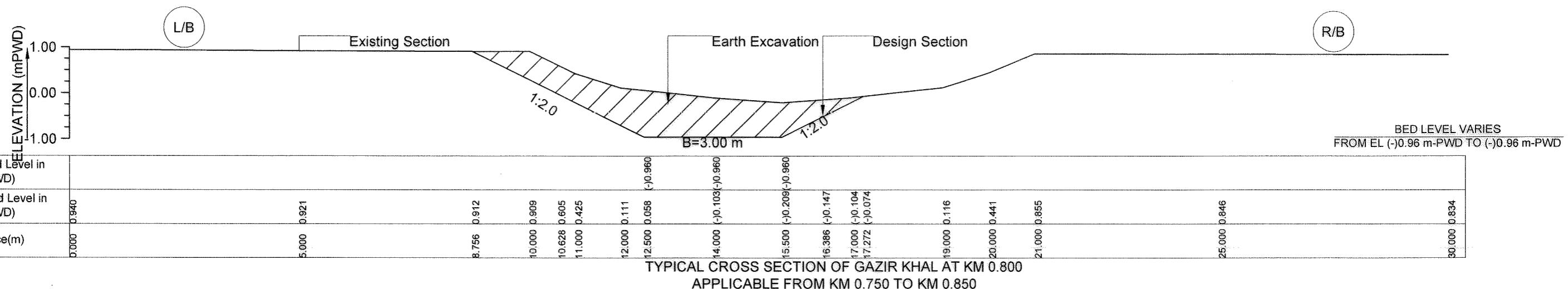
TYPICAL CROSS SECTION OF GAZIR KHAL AT KM 0.600
APPLICABLE FROM KM 0.550 TO KM 0.650



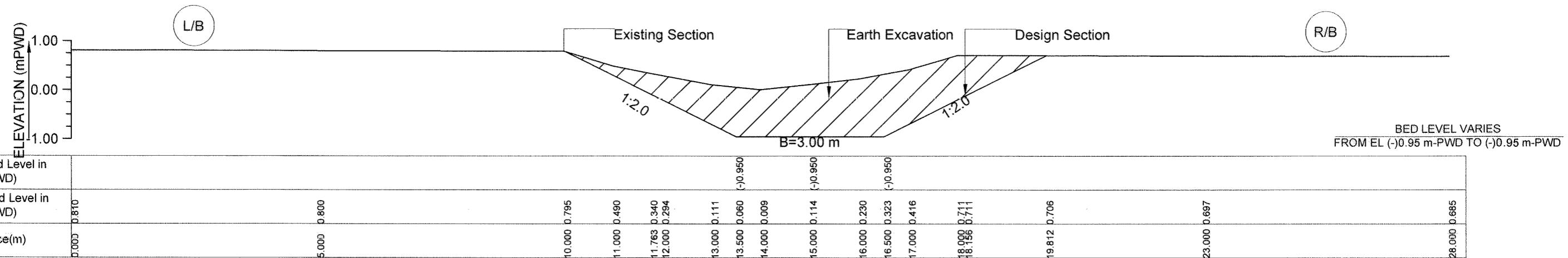
Design Bed Level in (mPWD)	0.942	5.000	9.737	0.922	10.000	0.921	11.000	0.293	11.618	0.185	13.000	(-)0.055	13.500	(-)0.105	(-)0.960	15.000	(-)0.254	(-)0.960	16.000	(-)0.355	(-)0.302	(-)0.960	16.500	(-)0.249	(-)0.216	17.000	(-)0.249	17.328	(-)0.216	18.157	(-)0.132	19.000	(-)0.046	21.000	0.257	22.000	0.890	27.000	0.878	32.000	0.875
Existing Bed Level in (mPWD)																																									
Distance(m)	0.000																																								

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

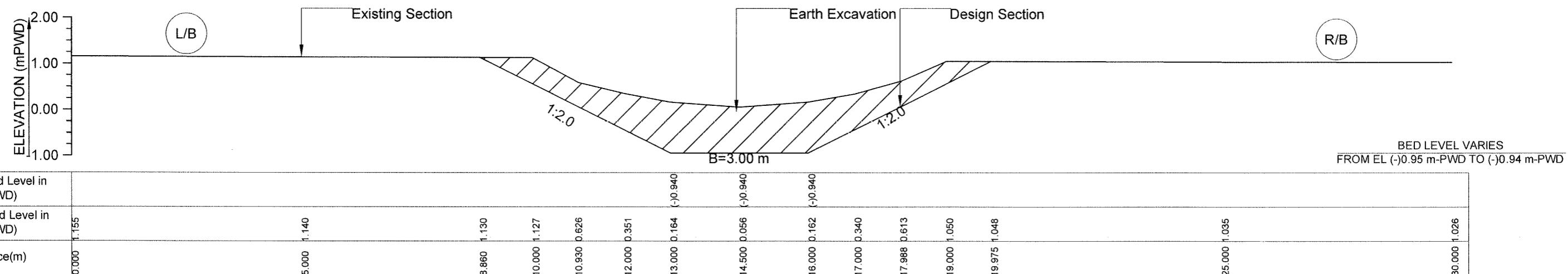
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TYPICAL CROSS SECTION OF GAZIR KHAL	
DESIGNED BY: 	APPROVED BY:
CHECKED AND RECOMMENDED BY: 	
Date: 04/02/2025	Drawing No: DC5-5775-07/15



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Drawing No: DC5-5775-08/15



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



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

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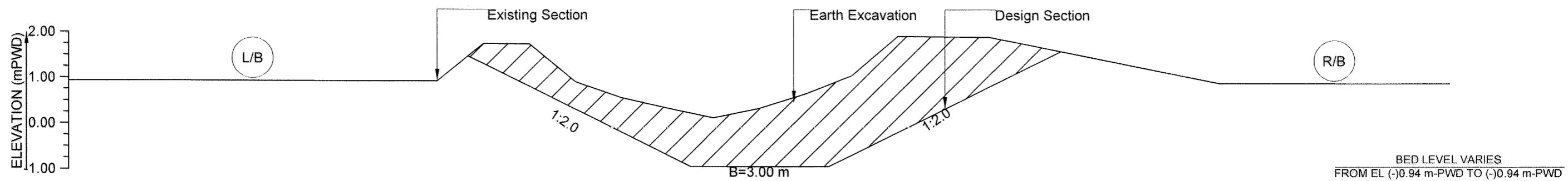
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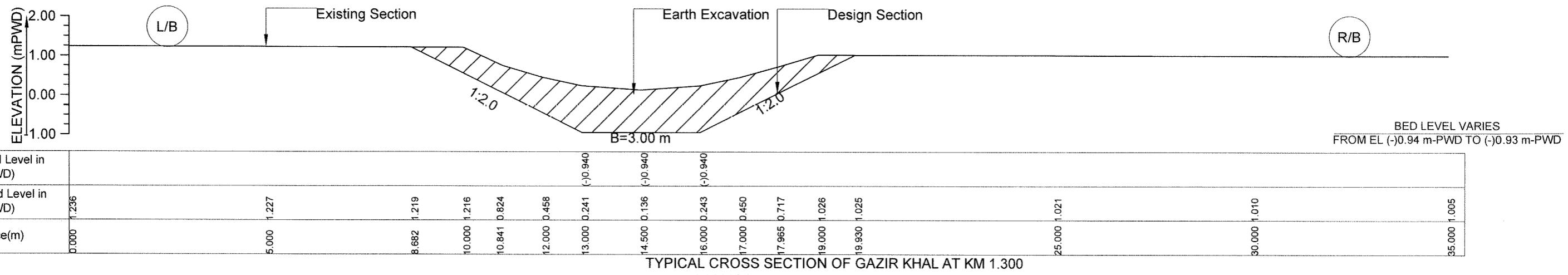
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(JAKARIA PERVEZ), SE

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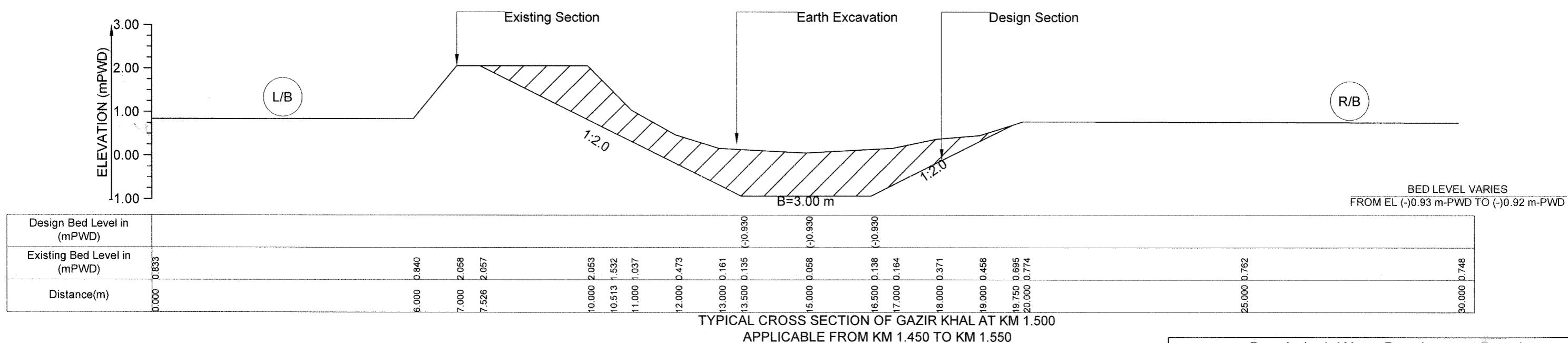
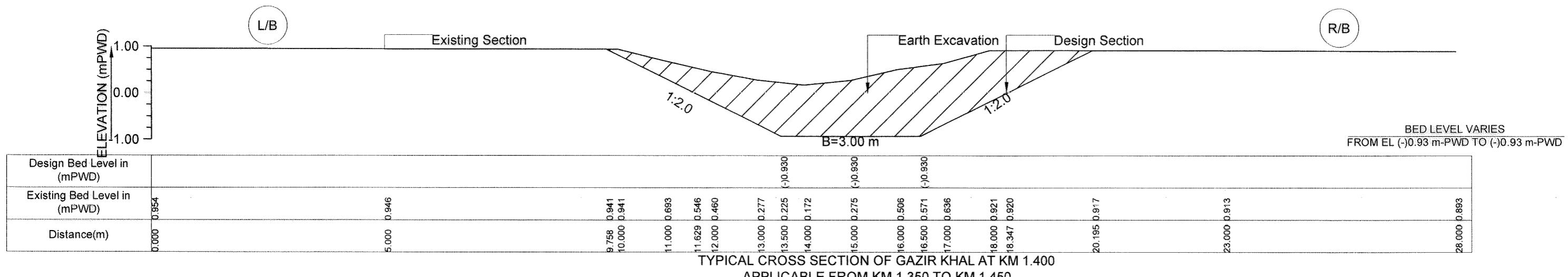
(MD. KAMRUL HASAN), EE



Design Bed Level in (mPWD)	Existing Bed Level in (mPWD)	Distance(m)
0.924	0.936	0.000
0.924	0.936	8.000
0.924	0.936	8.668
0.924	0.936	9.000
0.924	0.936	9.476
0.924	0.936	9.751
0.924	0.936	10.000
0.924	0.936	10.740
0.924	0.936	11.000
0.924	0.936	11.910
0.924	0.936	12.000
0.924	0.936	12.561
0.924	0.936	13.000
0.924	0.936	13.334
0.924	0.936	13.500
0.924	0.936	13.940
0.924	0.936	14.000
0.924	0.936	14.126
0.924	0.936	15.000
0.924	0.936	15.330
0.924	0.936	16.000
0.924	0.936	16.549
0.924	0.936	16.580
0.924	0.936	17.000
0.924	0.936	17.051
0.924	0.936	18.000
0.924	0.936	18.916
0.924	0.936	19.000
0.924	0.936	19.905
0.924	0.936	20.000
0.924	0.936	21.546
0.924	0.936	21.583
0.924	0.936	25.000
0.924	0.936	25.888
0.924	0.936	30.000
0.924	0.936	30.880



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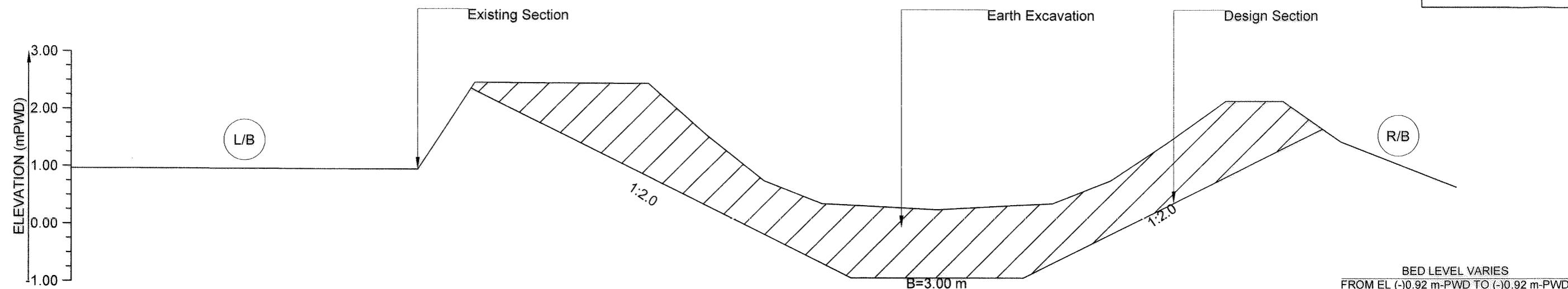
CHECKED AND RECOMMENDED BY:

/MD. KAMRUL HASAN LEE

(JAKARIA PERVEZ),SE

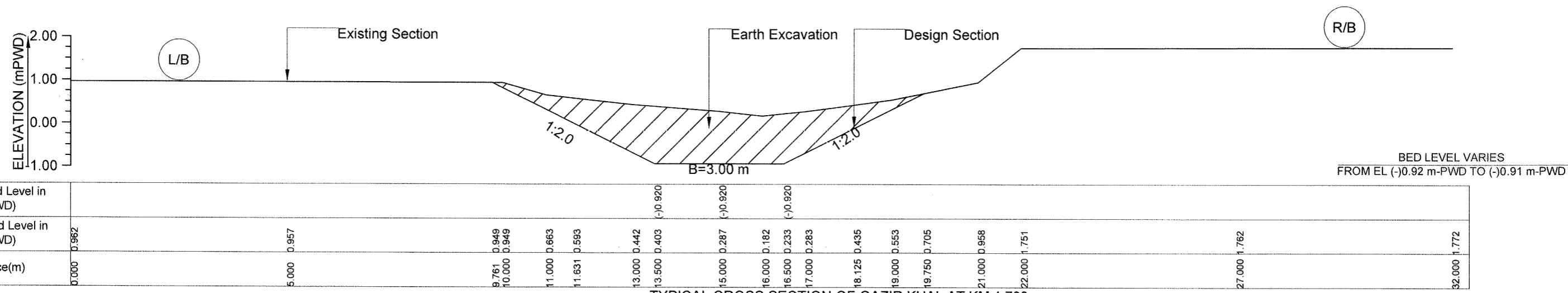
Date:04/02/2025

Drawing No:DC5-5775-11/15



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.962
Distance(m)	0.000
	6.000 0.949
	6.931 2.364
	10.000 2.453 10.216 2.260
	11.000 1.560
	12.000 0.761
	13.000 0.367 13.500 0.341
	15.000 0.264 (-)0.920
	16.500 0.344 (-)0.920
	17.000 0.370
	18.000 0.767
	19.000 1.438
	20.000 2.158
	21.000 2.153
	21.886 1.673
	22.300 1.453
	24.000 0.668

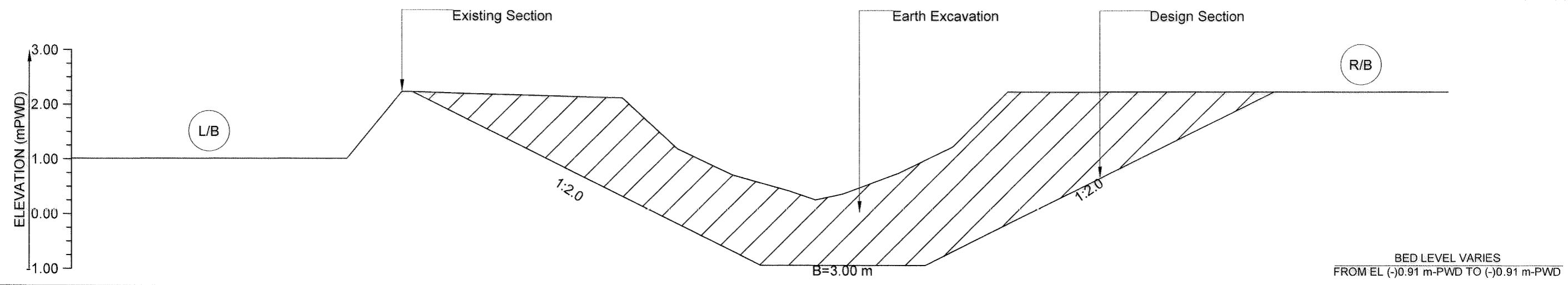
TYPICAL CROSS SECTION OF GAZIR KHAL AT KM 1.600
APPLICABLE FROM KM 1.550 TO KM 1.650



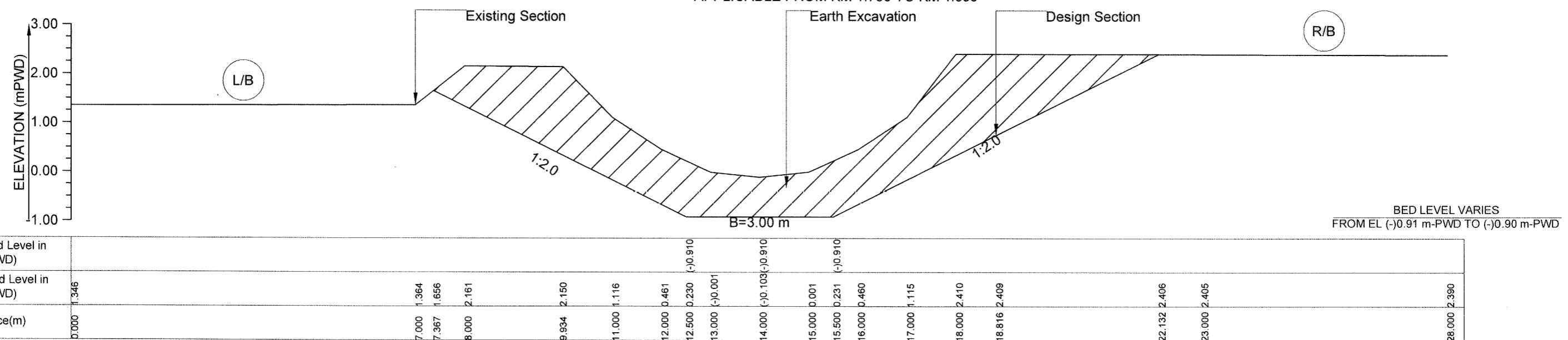
Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.962
Distance(m)	0.000
	5.000 0.957
	9.761 0.949 10.000 0.949
	11.000 0.663 11.631 0.593
	13.000 0.442 13.500 0.403 (-)0.920
	15.000 0.287 16.000 0.182 16.500 0.233 (-)0.920
	17.000 0.283 18.125 0.435 19.000 0.553 (-)0.920
	19.750 0.705 21.000 0.958 22.000 1.751
	27.000 1.762
	32.000 1.772

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

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



TYPICAL CROSS SECTION OF GAZIR 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 Gazir Khal from km. 0.000 to km. 2.325 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 GAZIR KHAL

DESIGNED BY:

(MD. MOSTAFA KAMAL), AE

APPROVED BY:

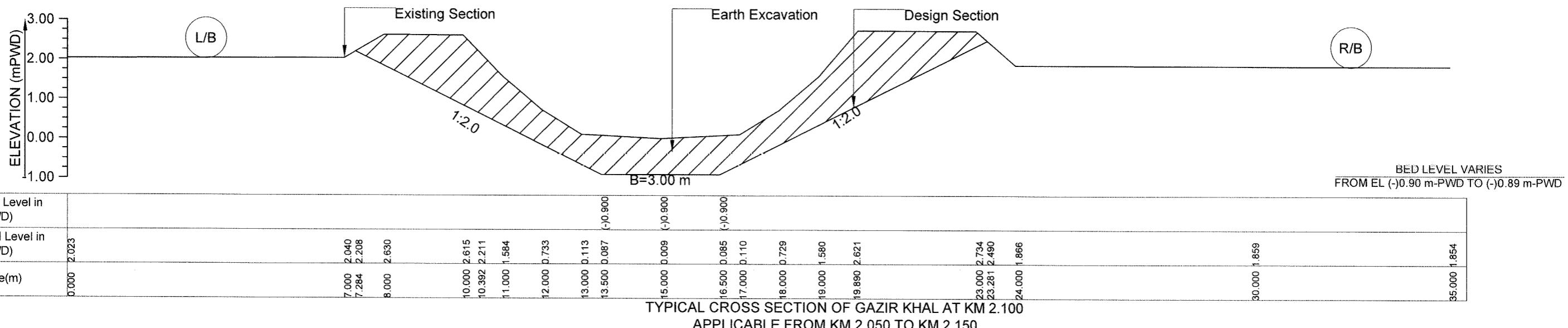
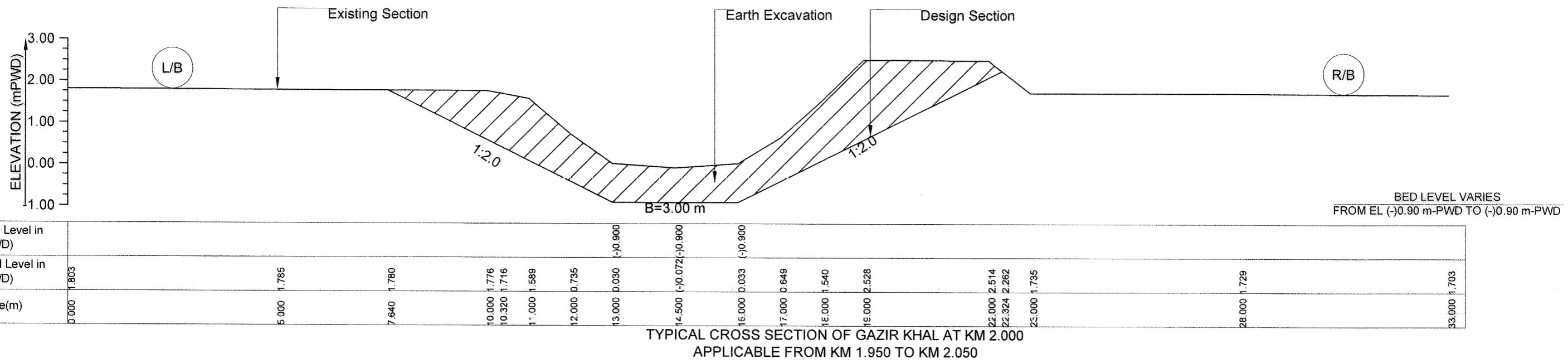
04.02.25
(JAKARIA PERVEZ), SE

CHECKED AND RECOMMENDED BY:

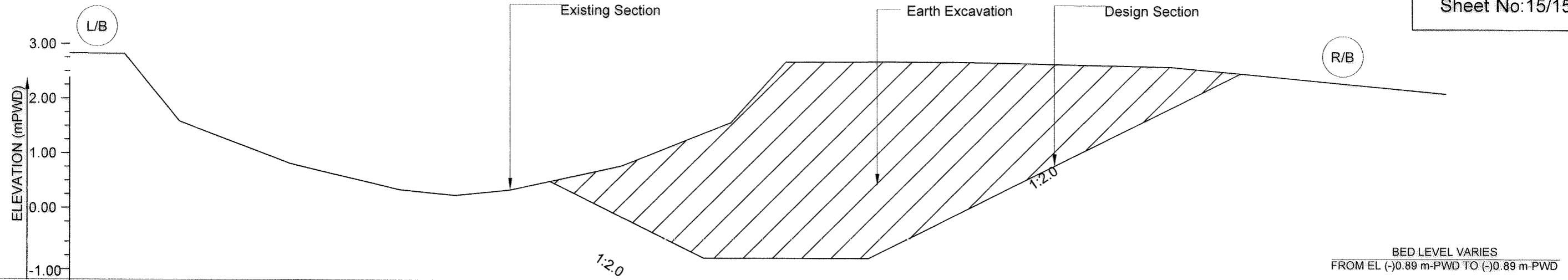
(MD. KAMRUL HASAN), EE

Date: 04/02/2025

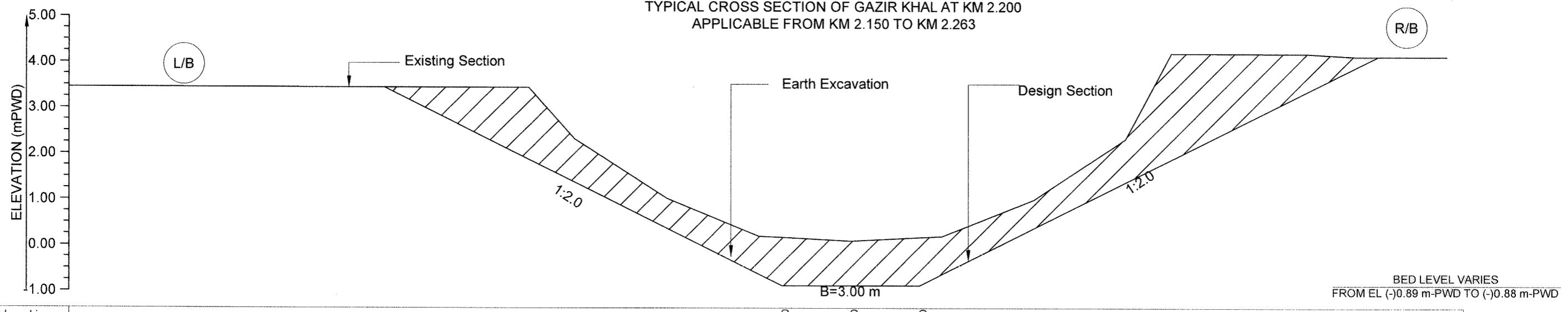
Drawing No: DC5-5775-13/15



Bangladesh Water Development Board
Office of The Superintending Engineer, Design Circle-5
CRISP-WRM
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TYPICAL CROSS SECTION OF GAZIR 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: DC5-5775-14/15



TYPICAL CROSS SECTION OF GAZIR KHAL AT KM 2.200
APPLICABLE FROM KM 2.150 TO KM 2.263



TYPICAL CROSS SECTION OF GAZIR KHAL AT KM 2.325
APPLICABLE FROM KM 2.263 TO KM 2.325

Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

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TYPICAL CROSS SECTION OF GAZIR KHAL

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