

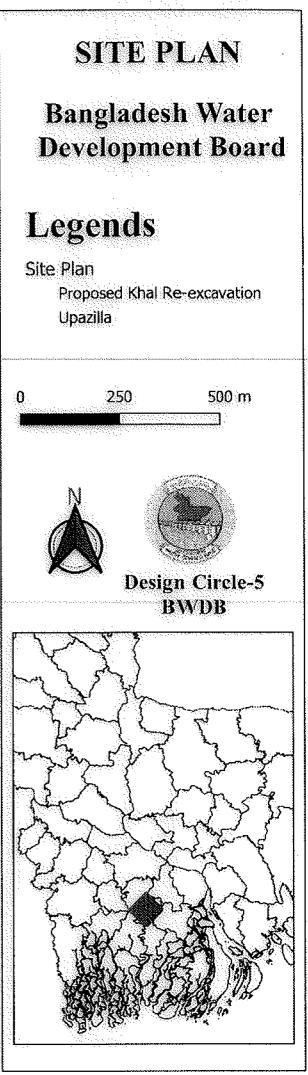
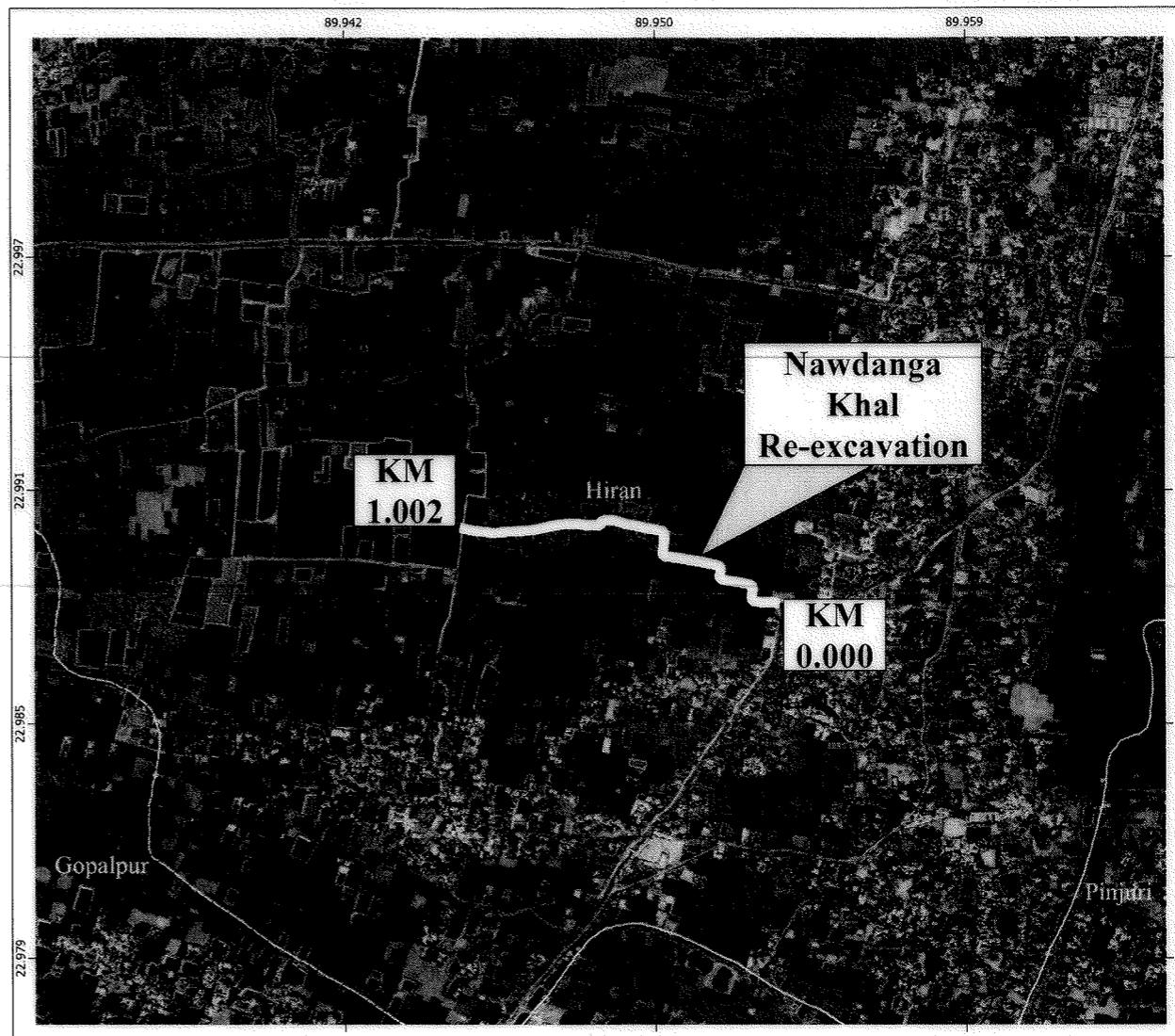
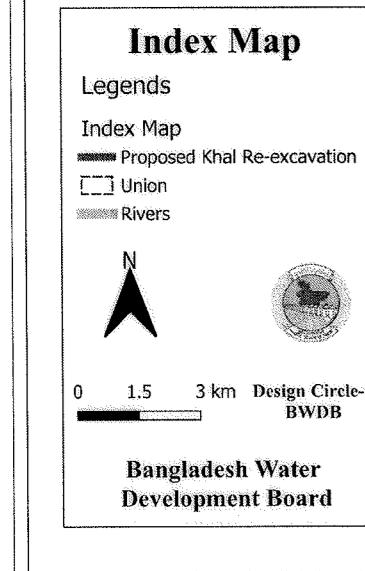
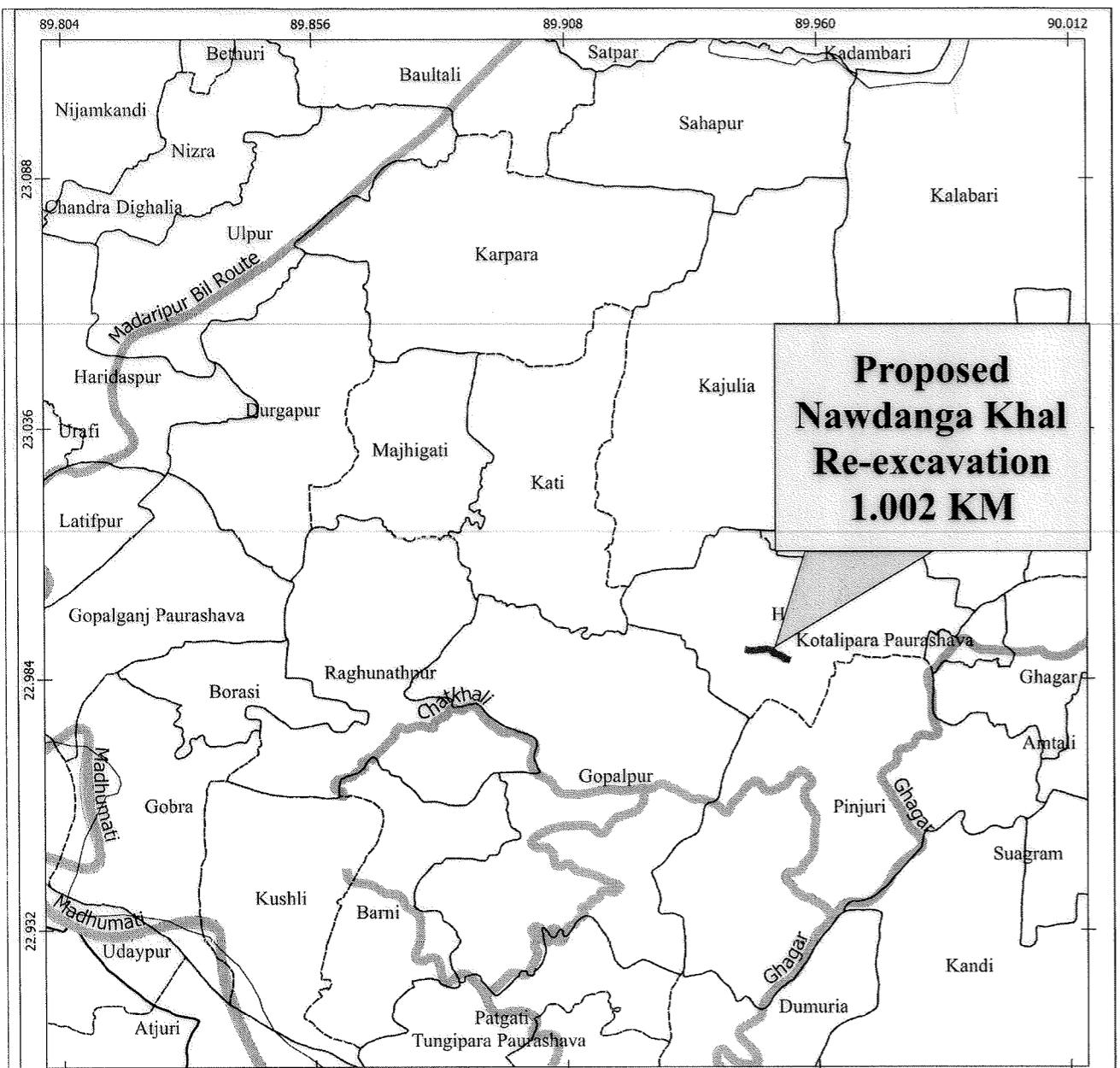
Bangladesh Water Development Board

Re-excavation of Nawdanga khal from km. 0.000 to km. 1.002 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(CRISP-WRM)

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 NAWDANGA KHAL

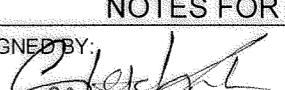
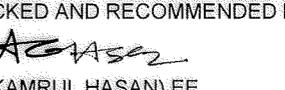
DESIGNED BY: (MD.MOSTAFA KAMAL),AE 09.02.25	APPROVED BY: (JAKARIA PERVEZ),SE 04.02.25
CHECKED AND RECOMMENDED BY: (MD.KAMRUL HASAN),EE	
Date:04/02/2025	Drawing No:DC5-5785-01/08

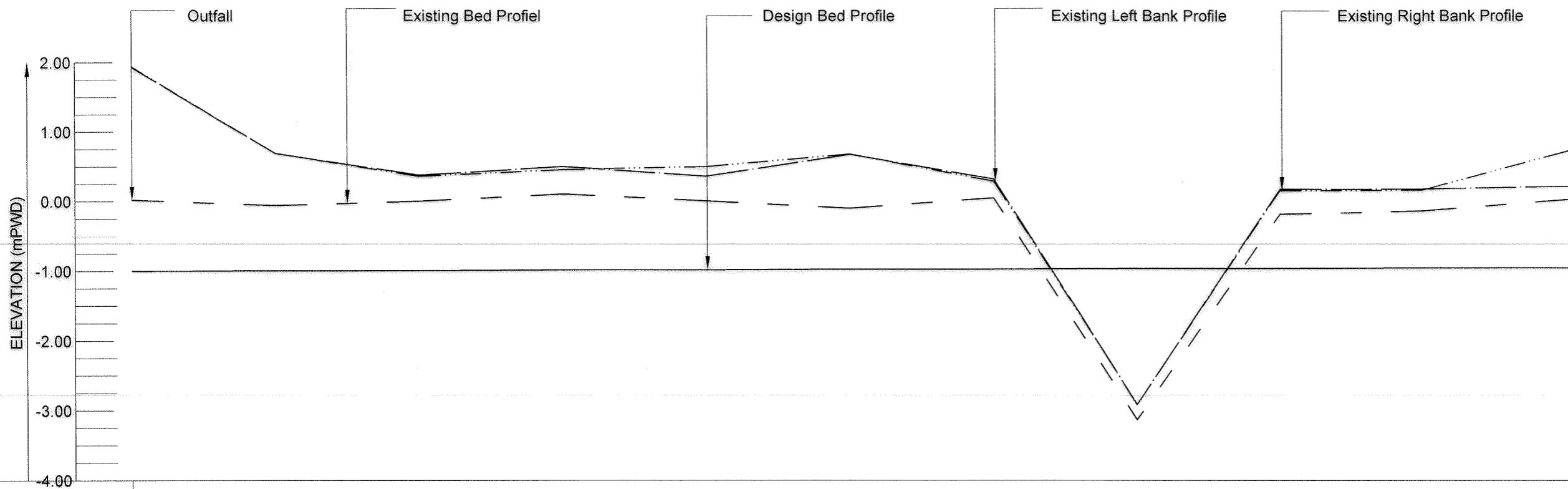
Administrative Notes :

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.

Bangladesh Water Development Board	
Office of The Superintending Engineer,Design Circle-5	
CRISP-WRM	
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NOTES FOR NAWDANGA 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:DC5-5785-02/08



Design Bed Width(m)													
Design Bed Level (mPWD)	1.929	1.939	0.019	(-)1.000									
Existing Bed Level (mPWD)	0.695	0.695	(-)0.055	(-)0.990									
Existing Left Bank Level (mPWD)	0.380	0.365	0.005										
Existing Right Bank Level (mPWD)	0.200	0.380	0.505	0.459	0.110	(-)0.980							
Distance(Km)	0.000	0.100	0.200	0.300	0.400	0.500	0.600	0.700	0.800	0.900	1.000	1.002	

LONG SECTION OF NAWDANGA KHAL APPLICABLE FROM KM 0.000 TO KM 1.002

Bangladesh Water Development Board

Office of The Superintending Engineer,Design Circle-5

CRISP-WRM

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LONG SECTION OF NAWDANGA KHAL

DESIGNED BY:

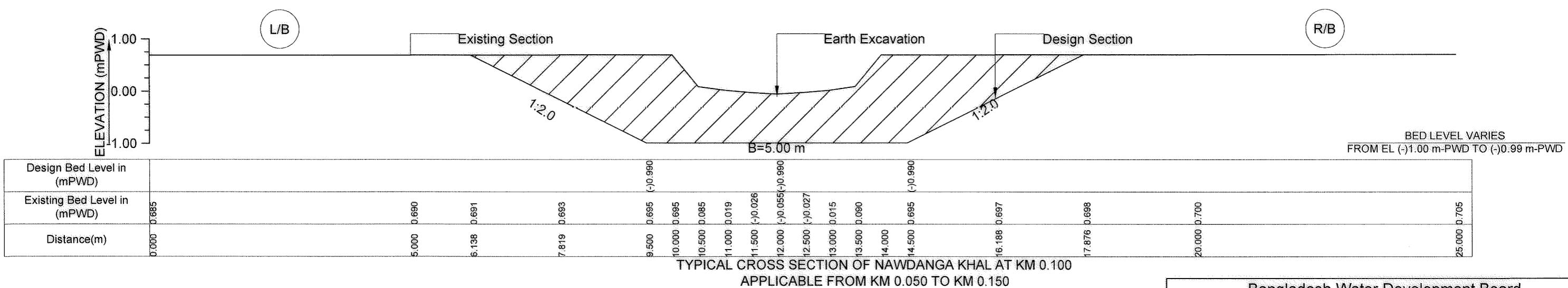
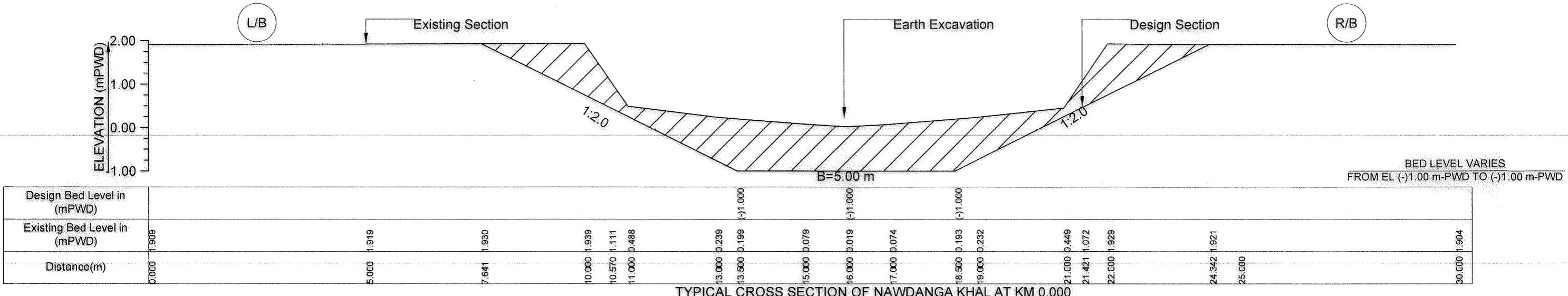
 (MD.MOSTAFA KAMAL),AE
 09.02.25

APPROVED BY:

 (JAKARIA PERVEZ),SE
 09.02.25

CHECKED AND RECOMMENDED BY:

 (MD.KAMRUL HASAN),EE



Bangladesh Water Development Board

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TYPICAL CROSS SECTION OF NAWDANGA KHAL

DESIGNED BY:

09.01
(MD.MOSTAFKA KAMAL),AE

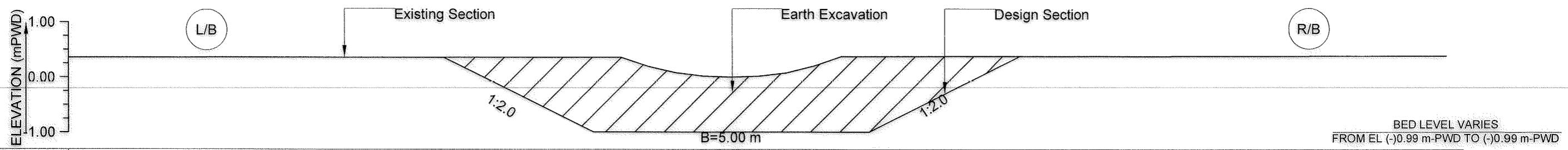
APPROVED BY:

CHECKED AND RECOMMENDED BY:

(MD KAMRUL HASAN) FF

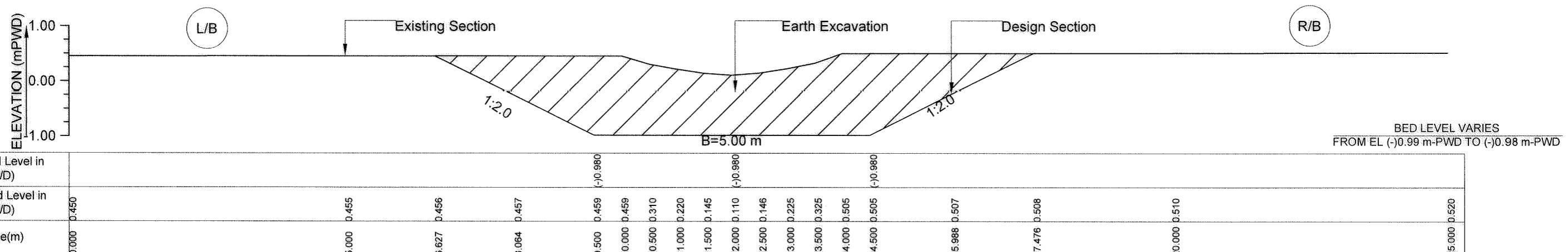
(JAKARIA PERVEZ),SE.

Date:04/02/2025 Drawing No:DC5-5785-04/08



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.355
Distance(m)	0.000
5.000	0.360
6.796	0.362
8.148	0.363
9.500	0.365 (-0.980)
10.000	0.366
10.500	0.199
11.000	0.085
11.500	0.024
12.000	0.005 (-0.990)
12.500	0.020
13.000	0.079
13.500	0.205
14.000	0.380
14.500	0.380 (-0.990)
15.873	0.382
17.245	0.383
20.000	0.385
25.000	0.390

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



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.450
Distance(m)	0.000
5.000	0.455
6.627	0.456
8.084	0.457
9.500	0.459 (-0.980)
10.000	0.459
10.500	0.310
11.000	0.220
11.500	0.145
12.000	0.110 (-0.980)
12.500	0.146
13.000	0.225
13.500	0.325
14.000	0.505
14.500	0.505 (-0.980)
15.988	0.507
17.476	0.508
20.000	0.510
25.000	0.520

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

Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

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TYPICAL CROSS SECTION OF NAWDANGA KHAL

DESIGNED BY:

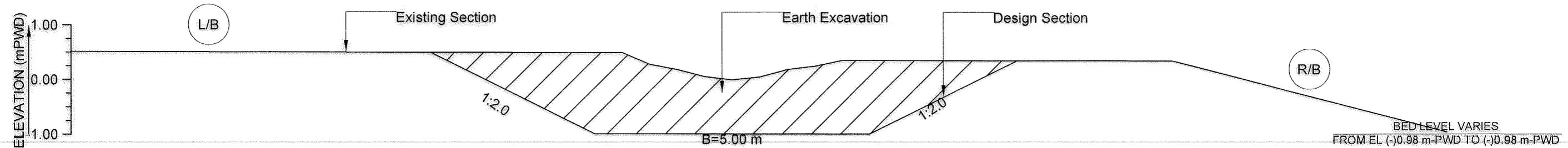
(MD.MOSTATA KAMAL),AE
09.02.25

APPROVED BY:

(JAKARIA PERVEZ),SE
04.02.25

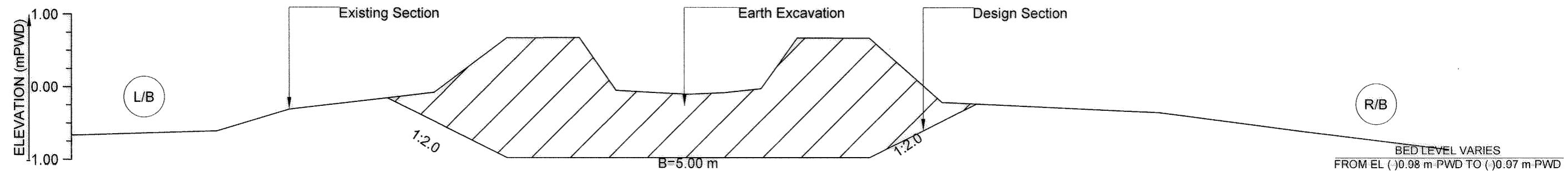
CHECKED AND RECOMMENDED BY:

(MD.KAMRUL HASAN),EE



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	0.513
Distance(m)	0.000
	5.000 0.508
	6.527 0.506
	8.014 0.505
	9.500 0.504 (-0.980)
	10.000 0.503
	10.500 0.288
	11.000 0.197
	11.500 0.067
	12.000 0.008 (-0.980)
	12.500 0.058
	13.000
	13.500 0.258
	14.000 0.363
	14.500 0.363 (-0.980)
	15.840 0.361
	17.181 0.360
	20.000 0.358
	25.000 (-0.942)

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



Design Bed Level in (mPWD)	
Existing Bed Level in (mPWD)	(-)0.668
Distance(m)	0.000
	2.000 (-0.607)
	3.000 (-0.307)
	4.357 (-0.148)
	5.000 (-0.073)
	5.178 0.061
	6.000 0.678 (-0.970)
	7.000 0.683
	7.500 0.042
	8.000 0.072
	8.500 (-0.097)
	9.000 (-0.075)
	9.500 (-0.022)
	10.000
	11.000 0.673 (-0.970)
	11.741 0.021
	12.000 (-0.207)
	12.481 (-0.229)
	15.000 (-0.347)
	17.000
	19.000 (-0.852)

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

Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

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TYPICAL CROSS SECTION OF NAWDANGA KHAL

DESIGNED BY:

(MD. MOSTAFA KAMAL), AE
19.02.25

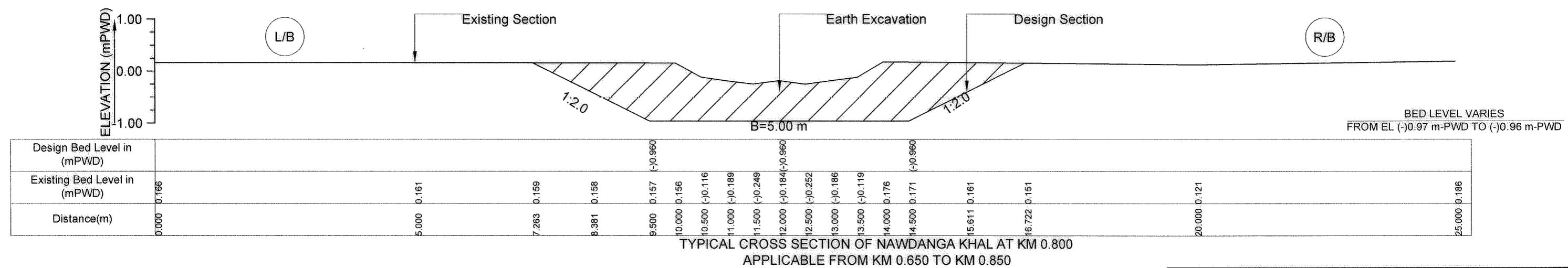
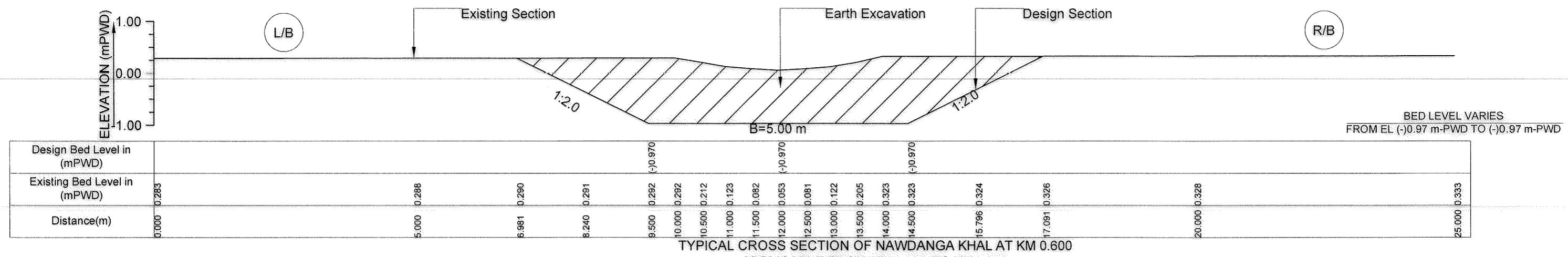
APPROVED BY:

(JAKARIA PERVEZ), SE
04.02.25

CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN), EE

Date: 04/02/2025 Drawing No: DC5-5785-06/08



Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

CRISP-WRM

Re-excavation of Nawdanga khal from km. 0.000 to km. 1.002 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 NAWDANGA KHAL

DESIGNED BY:

09.02
(MD. MOSTAFÄ KAMAL), AE

APPROVED BY:

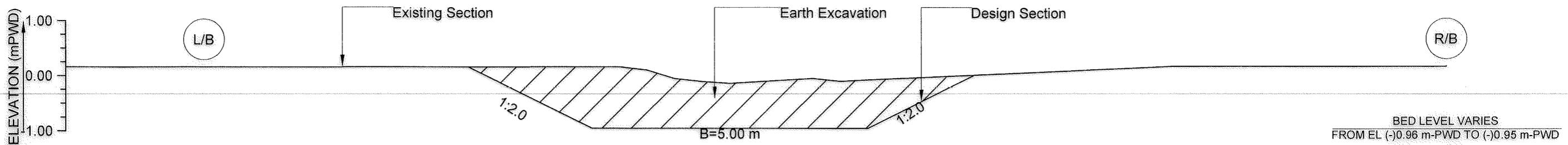
CHECKED AND RECOMMENDED BY:

(MD. KAMRUL HASAN) FF

(JAKARIA PERVEZ), SE

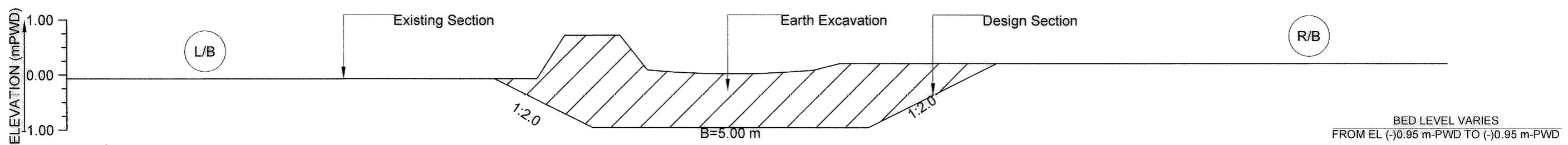
Date:04/02/2025

Drawing No:DC5-5785-07/08



Design Bed Level in (mPWD)																																								
Existing Bed Level in (mPWD)																																								
Distance(m)	0.000	0.156	5.000	0.161	7.273	0.163	8.387	0.164	9.500	0.166	10.000	0.166	10.500	0.109	11.000	(-)0.049	11.500	(-)0.104	12.000	(-)0.135	(-)0.950	12.500	(-)0.06	13.000	(-)0.044	13.500	(-)0.095	14.000	(-)0.072	(-)0.950	14.500	(-)0.028	15.467	(-)0.028	16.434	0.017	20.000	0.181	25.000	0.186

TYPICAL CROSS SECTION OF NAWDANGA KHAL AT KM 0.900
APPLICABLE FROM KM 0.850 TO KM 0.951



Design Bed Level in (mPWD)																																										
Existing Bed Level in (mPWD)																																										
Distance(m)	0.000	(-)0.072	5.000	(-)0.067	7.726	(-)0.063	8.500	(-)0.062	9.000	0.720	9.500	0.724	(-)0.950	10.000	0.728	10.500	0.096	11.000	0.056	11.500	0.032	12.000	0.028	(-)0.950	12.500	0.030	13.000	0.057	13.500	0.093	14.000	0.218	14.500	0.218	15.670	0.219	16.841	0.220	20.000	0.223	25.000	0.228

TYPICAL CROSS SECTION OF NAWDANGA KHAL AT KM 1.002
APPLICABLE FROM KM 0.951 TO KM 1.002

Bangladesh Water Development Board

Office of The Superintending Engineer, Design Circle-5

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TYPICAL CROSS SECTION OF NAWDANGA KHAL

DESIGNED BY:

(MD.MOSTAFA KAMAL),AE
09.02.25

APPROVED BY:

(JAKARIA PERVEZ),SE
09.02.25

CHECKED AND RECOMMENDED BY:

(MD.KAMRUL HASAN),EE