

# Bangladesh Water Development Board



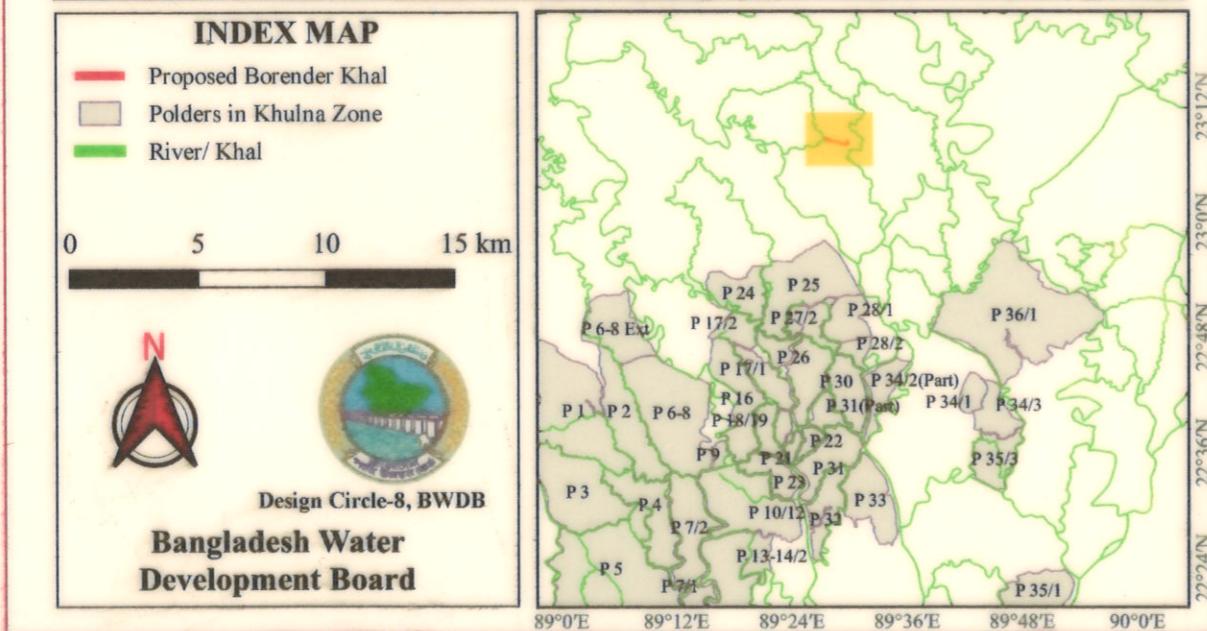
Re-excavation of Borender Khal From Km. 0.000 to Km. 4.800 = 4.800 Km. at Mulia in Narail Sadar,  
Narail Under Operation & Maintenance Budget Under Narail O & M Division, BWDB, Narail.

Narail O & M Division, BWDB, Narail.

Designed by: Design Circle-8, BWDB, Dhaka.  
March, 2023



## Site Plan



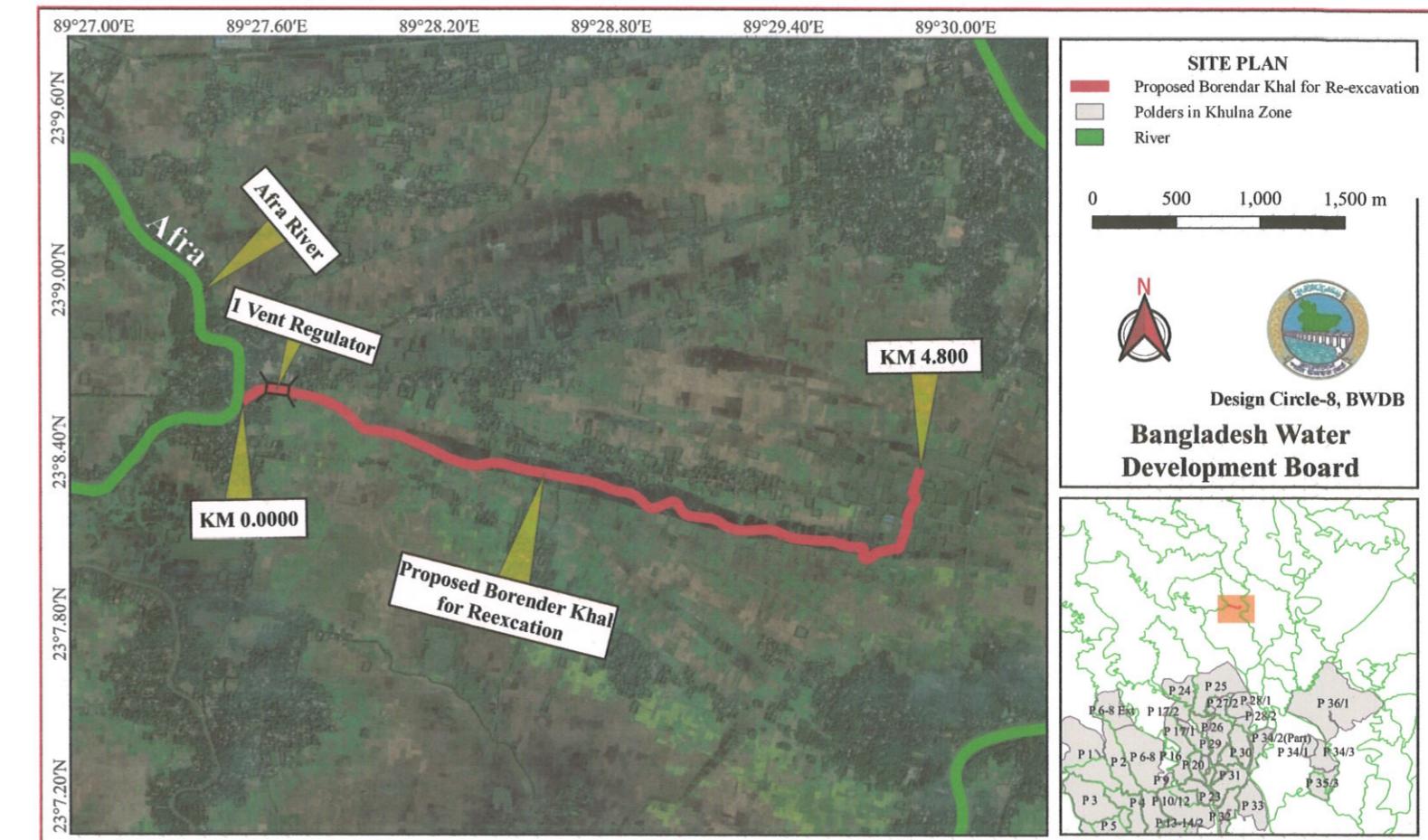
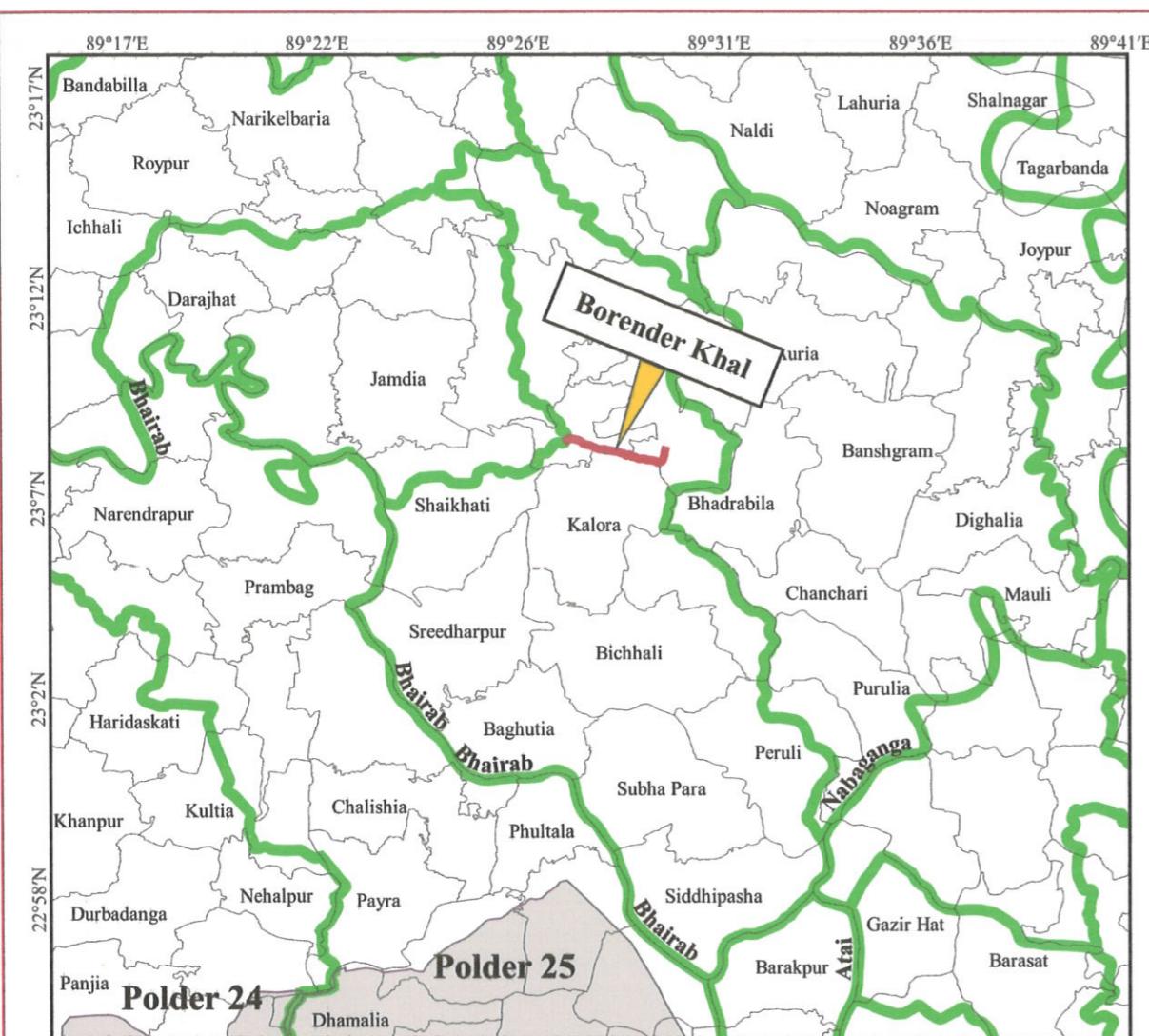
## Index Map

**Bangladesh Water Development Board**  
**Office of the Superintending Engineer**  
**Design Circle-8**

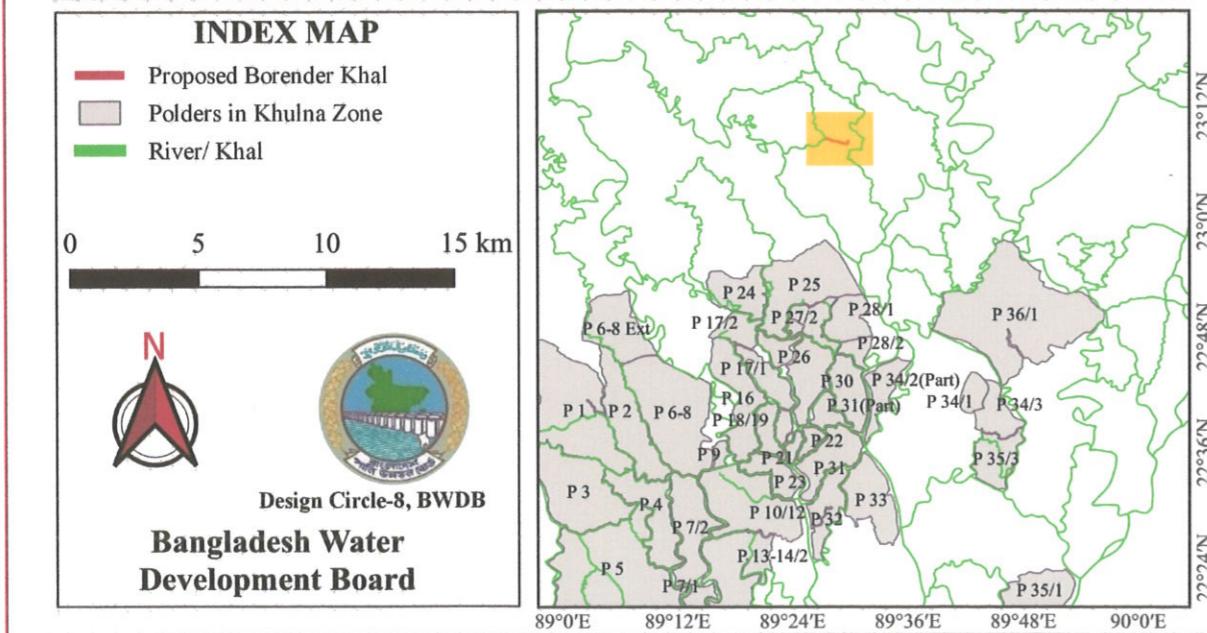
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at Mulia in Narail Sadar, Narail Under Operation & Maintenance Budget  
Under Narail O & M Division, BWDB, Narail.

Index Map & Site Plan	
DESIGNED BY :	APPROVED BY :
SHAIKH MD. ABDUR RAHMAN), AE CHECKED & RECOMMENDED BY : <i>Sahmon</i>	<i>Rashed</i> 15/2/23
ABU SAYEED MD. MASUM), EE <i>Amra</i>	(MOHAMMAD SAIF UDDIN), SE

**DATE: 15-03-2023 DWG NO.: DC-8-0359-01/04**



## Site Plan



## Index Map

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**Re-excavation of Borender Khal From Km. 0.000 to Km. 4.800 = 4.800 Km.  
at Mulia in Narail Sadar, Narail Under Operation & Maintenance Budget  
Under Narail O & M Division, BWDB, Narail.**

## **Index Map & Site Plan**

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DESIGNED BY :

*Baltimore*

(SHAIRH MD. ABDUR RAHMAN), AE  
CHECKED & RECOMMENDED BY

CHECKED & RECOMMENDED BY  
  
(ABU SAYEED MD. MASUM) F.F.

APPROVED BY :

 15/2/23

DATE: 15-03-2023 DWG NO.: DC-8-0359-01/04

ADMINISTRATIVE NOTES:

1. ALL MATERIALS AND WORK MUST CONFIRM TO TECHNICAL SPECIFICATION OF BWDB.
2. WORK SHALL BE EXECUTED WITH PRIOR ADMINISTRATIVE AND FINANCIAL APPROVAL AND WITHIN DPP/ BUDGET PROVISION.
3. FOR ANY ERROR, OMISSION FIELD OFFICE IS HIGHLY RECOMMENDED TO INFORM IT TO CONCERN DESIGN CIRCLE OF BWDB.
4. NECESSARY LAND SHALL BE ARRANGED FOR EXCAVATION WORK.

SPECIAL NOTES:

1. THIS DRAWING HAS BEEN PREPARED AS PER PROPOSAL AND DESIGN DATA SUBMITTED BY SE, JASHORE O & M CIRCLE, BWDB, KHULNA VIDE HIS OFFICE MEMO NO-1107, DATE: 05/02/2023.

TECHNICAL NOTES:

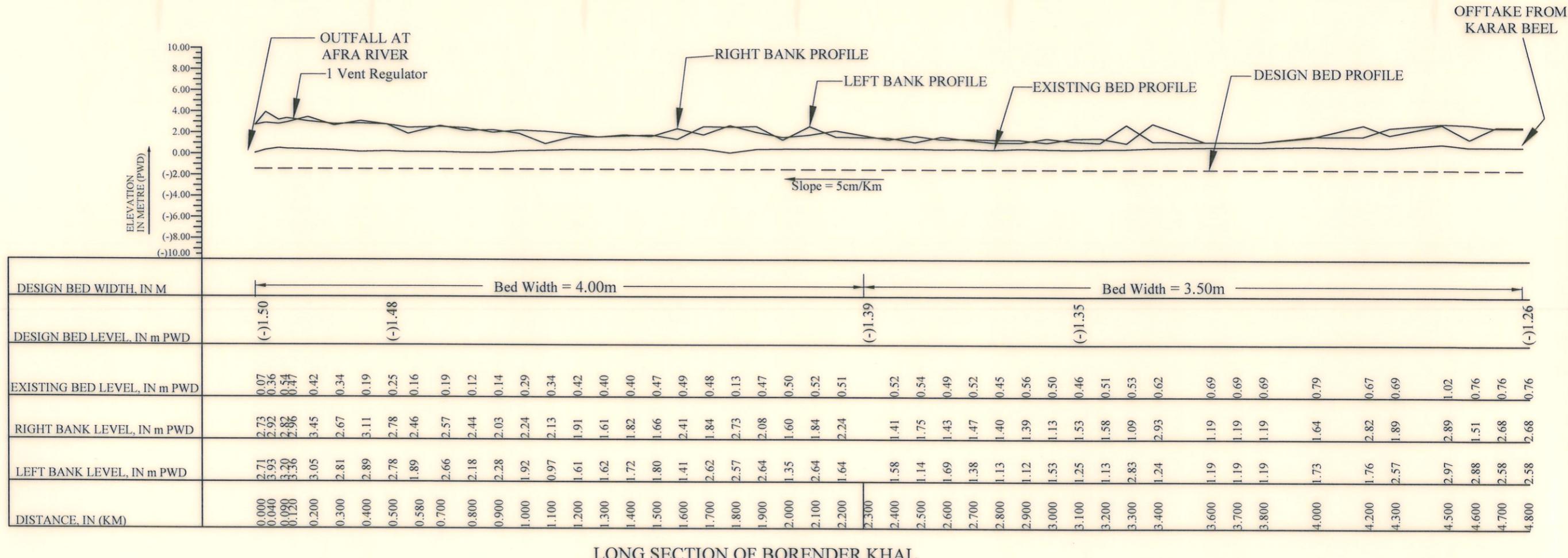
1. ALL DIMENSIONS ARE IN MILLIMETRE & ALL ELEVATIONS ARE IN METRE (PWD) UNLESS OTHERWISE MENTIONED IN THE DRAWING.
2. RE-EXCAVATION WORK SHALL BE STARTED FROM D/S OF CHANNEL.
3. TYPICAL DESIGN SECTIONS ARE PROVIDED IN THIS DESIGN FOR RE-EXCAVATION. X-SECTIONS AT AN INTERVAL NOT MORE THAN 150.00M TO BE TAKEN BY THE FIELD OFFICE FOR THE ESTIMATION OF ACTUAL VOLUME OF EARTH CUTTING.
4. EXCAVATED EARTH SHALL NOT BE DEPOSITED WITHIN THE EXISTING SECTION OF THE RIVER/KHAL. EXCAVATED EARTH SHALL BE DEPOSITED AT A DISTANCE OF AT LEAST 3.00 METER AWAY FROM THE BANK LINE OF THE RIVER/KHAL (IN A DISCONTINUOUS MANNER TO PROVIDE SPACE FOR OVERLAND FLOW TOWARDS KHAL) FROM WHERE NO FLOW BACK OF THE EXCAVATED EARTH IN THE RIVER IS POSSIBLE. UNDER NO CIRCUMSTANCES FLOW BACK OF THE EXCAVATED EARTH INTO THE RIVER SHALL BE ALLOWED. DEPOSITION OF EARTH NOT BE MORE THAN 30M OF CONTINUOUS LENGTH AND MINIMUM 5M INTERVAL TO BE PROVIDED.
5. EXCAVATED EARTH MAY BE USED FOR CONSTRUCTION/RE-SECTIONING OF DYKE/ROAD/EMBANKMENT (WHERE APPLICABLE). EXCAVATED EARTH MAY BE ALSO USED FOR FILLING OF DITCH, POND, LOW LAND ETC.
6. EXCAVATED EARTH SHALL NOT BE DEPOSITED ON ANY OPEN CHANNEL AND AT THE FLOOD PLANE OF RIVER.
7. DEPOSITED EARTH TO BE DRESSED IN A REGULAR SHAPE & CLOSED TURFING WITH PLANTATION TO BE PROVIDED OVER DEPOSITED EARTH. PLANTATION OF VETIVER (BINNA GRASS) MAY BE PROVIDED ON SLOPE OF DEPOSITED EARTH.
8. NO FILLING SHALL BE DONE WHERE THE EXISTING BED LEVEL OF KHAL IS LOWER THAN THE DESIGN BED LEVEL (IF EXIST).
9. A SMOOTH TRANSITION (1:100) SHOULD BE PROVIDED BETWEEN TWO DIFFERENT BED WIDTH AND BED LEVEL AND ALSO AT THE OUTER END OF EXISTING CULVERT/BIDGE (IF REQUIRED).
10. THE PROPOSED WORK SHALL BE EXECUTED PREFERABLY IN DRY SEASON.
11. EXCAVATION MUST BE DONE VERY CAREFULLY SO THAT BASE SLAB/ FOUNDATION OF THE EXISTING REGULATOR/CULVERT/BIDGE ETC (IF ANY) DO NOT BE DISTURBED .
12. IF THERE EXISTS ANY STRUCTURE OTHER THAN BRIDGE WITHIN THE PROPOSED LENGTH OF THE RIVER, RE-EXCAVATION WORK IS PROHIBITED THROUGHOUT THE LENGTH OF THAT STRUCTURE.
13. DESIGN BED LEVEL SHALL NOT BE BELOW THE FOUNDATION TOP LEVEL OF THE EXISTING STRUCTURES (IF ANY) IN THE RIVER. IF THE DESIGN BED LEVEL IS BELOW THE FOUNDATION TOP LEVEL THEN THE DIFFERENCE BETWEEN THESE LEVELS SHALL BE MATCHED IN A SLOPE 1:50, OR AT A DISTANCE OF 100 M, WHICHEVER IS HEIGHER (U/S AND D/S OF THE STRUCTURE) AS SHOWN IN THE DRAWING.
14. RE-EXCAVATION OF KHAL/ RIVER WILL FACILITATE QUICK DRAINAGE, FLUSHING & STORAGE OF WATER. BUT COMPLETE DRAIN OUT OF BEEL AREA SHALL NOT BE ALLOWED FOR MAINTAINING ECOLOGICAL BALANCE.
15. IF THE BED LEVEL OF OUTFALL KHAL/RIVR IS HIGHER THAN THE DESIGN BED LEVEL OF PROPOSED KHAL, THEN RE-EXCAVATION OF PROPOSED KHAL TO BE IMPLEMENTED AFTER IMPLEMENTATION OF RE-EXCAVATION OF OUTFALL KHAL/RIVER.
16. THIS KHAL IS DESIGNED FOR DRAINAGE AS WELL AS FOR IRRIGATION PURPOSE.

**Bangladesh Water Development Board****Office of the Superintending Engineer  
Design Circle-8**

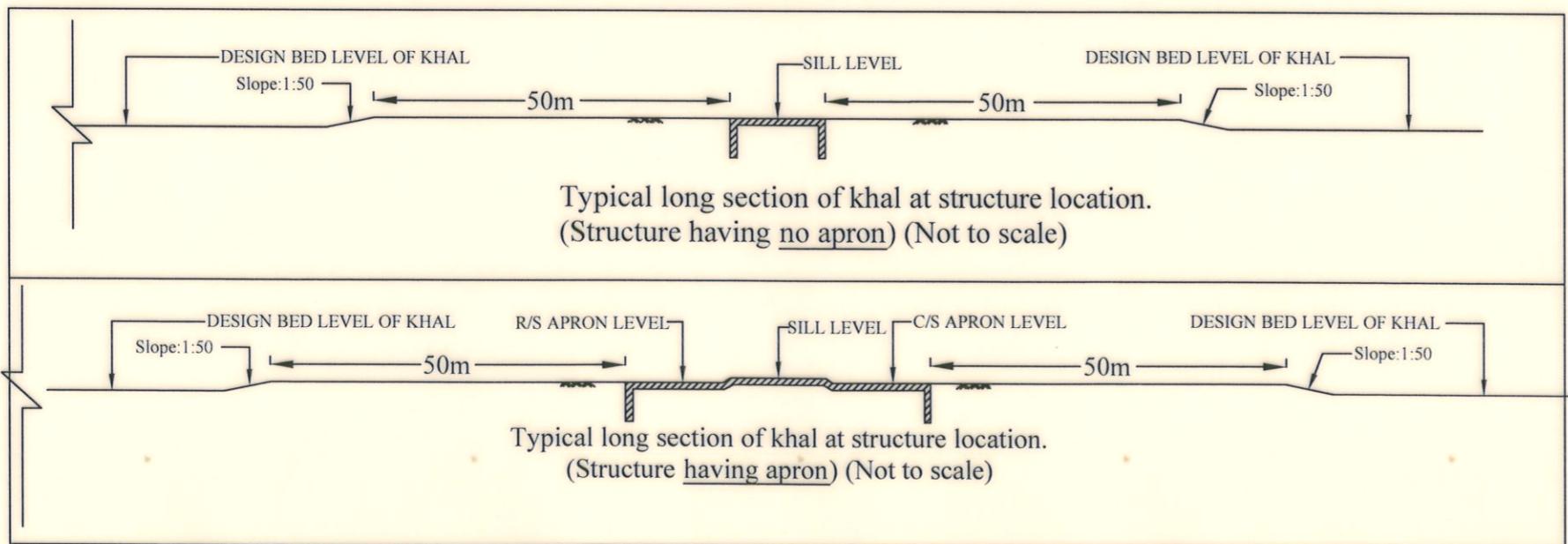
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at Mulia in Narail Sadar, Narail Under Operation & Maintenance Budget  
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**Notes**

DESIGNED BY :  (SHAIKH MD. ABDUR RAHMAN), AE  CHECKED & RECOMMENDED BY :  (ABU SAYEED MD. MASUM), EE	APPROVED BY :  (MOHAMMAD SAIF UDDIN), SE
<b>DATE: 15-03-2023   DWG NO.: DC-8-0359-02/04</b>	



Guideline for matching the excavated level of khal to the existing foundation level of structure  
(where foundation level of structure is above the design level of khal).



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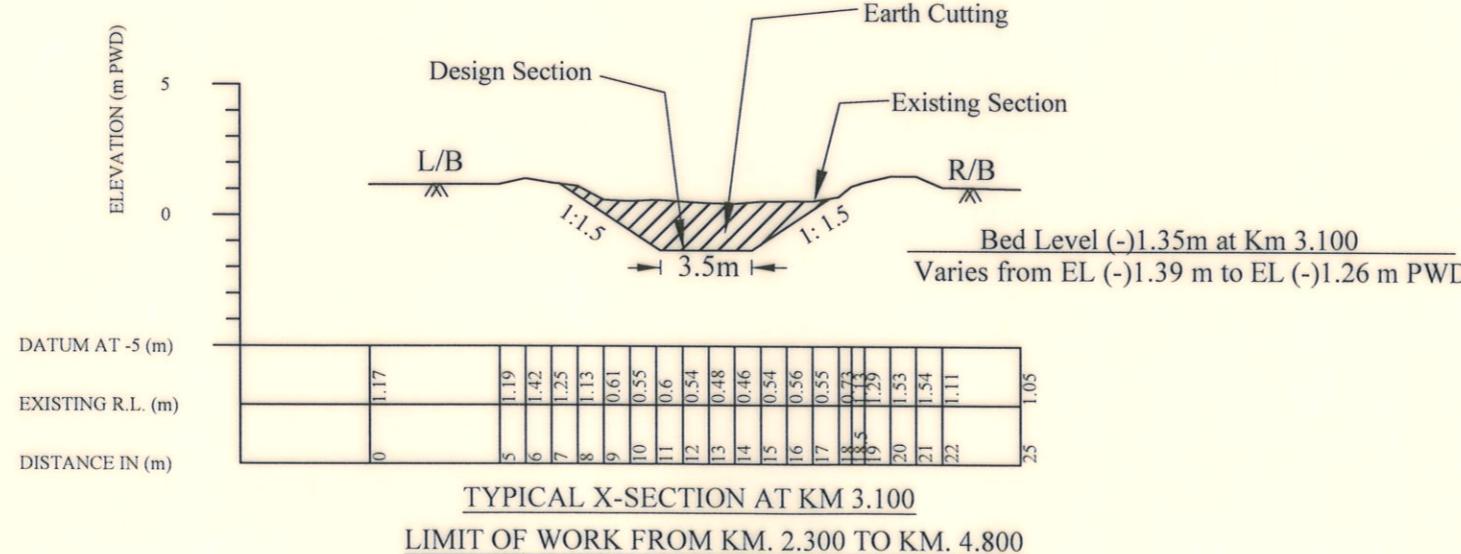
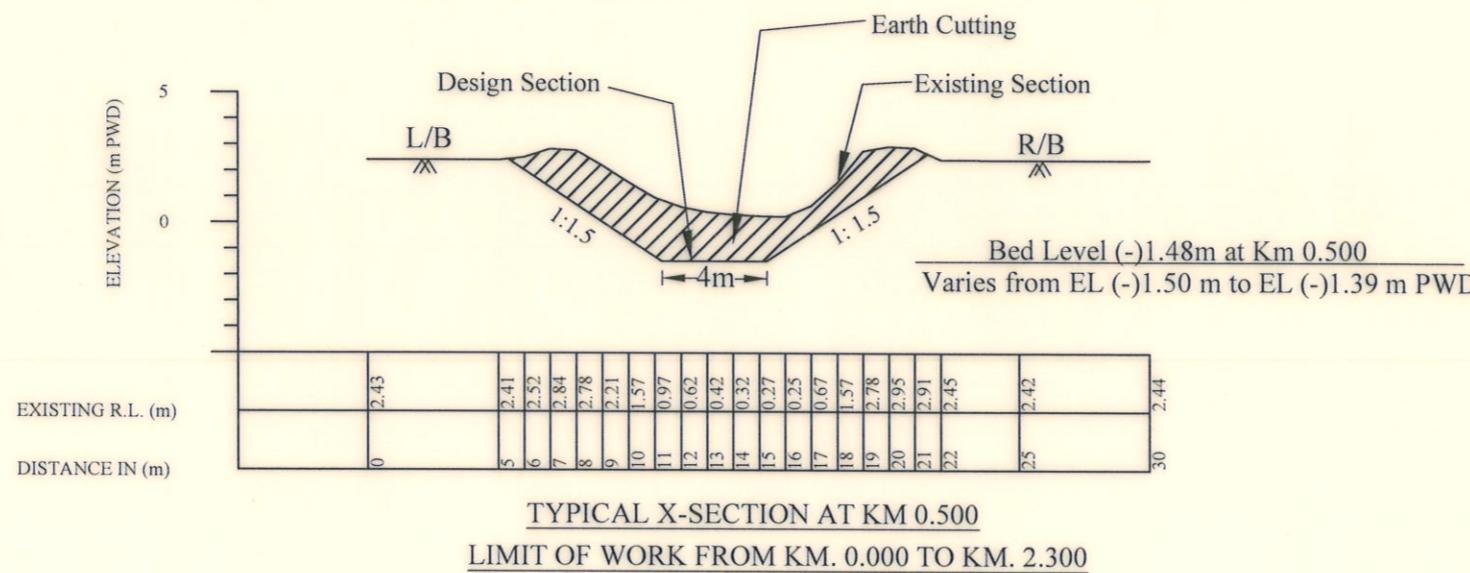
Long Section

DESIGNED BY:

(SHAIKH MD. ABDUR RAHMAN), AE  
CHECKED & RECOMMENDED BY:

APPROVED BY:

  
15/3/23  
(MOHAMMAD SAIF UDDIN), SE



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Km. at Mulia in Narail Sadar, Narail Under Operation & Maintenance  
Budget Under Narail O & M Division, BWDB, Narail.

Title: Typical Cross Sections of Canal

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CHECKED & RECOMMENDED BY :			
(ABU SAYEED MD. MASUM), EE			(MOHAMMAD SAIF UDDIN), SE