

THE PEOPLE'S REPUBLIC OF BANGLADESH
FLOOD PLAN COORDINATION ORGANIZATION

MASTER PLAN
FOR
GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
OF
BANGLADESH FLOOD ACTION PLAN NO.8A



FAP 8A

DATA BOOK III
TOPOGRAPHIC SURVEY DRAWINGS

NOVEMBER 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

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Topographic Survey Drawings

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3. UPDATED TOPOGRAPHIC MAP

- (1) STUDY AREA ON 1:50,000 SCALE
- (2) STUDY AREA ON 1:25,000 SCALE
- (3) STUDY AREA ON 1:10,000 SCALE

17

CONTENTS

1. SUPPORTING REPORT A
2. LONGITUDINAL AND CROSS SECTION
 - 2.1 TRAVERSING/LEVELING NETWORK MAP AND LOCATION MAP OF LONGITUDINAL/CROSS SECTION SURVEY OF RIVER AND CANAL
 - 2.2 DESCRIPTION OF BENCH MARK
 - 2.3 RIVERS
 - 2.2.1 TONGI RIVER
 - 2.2.2 KARANATALI RIVER
 - 2.2.3 BALU RIBER
 - 2.2.4 TURAG RIVER
 - 2.2.5 HYDRABAD RIVER
 - 2.4 CANAL (KHAL)
 - 2.3.1 GREATER DHAKA (DB-1~DC-18)
 - 2.3.2 NARAYANGANJ (N-1~N-21)
 - 2.3.3 KERANIGANJ (K-1~K-9)
3. UPDATED TOPOGRAPHIC MAP
 - (1) STUDY AREA ON 1:50,000 SCALE
 - (2) GREATER DHAKA AREA ON 1:20,000 SCALE
 - (3) NARAYANGANJ AREA ON 1:20,000 SCALE

1. SUPPORTING REPORT A

SUPPORTING REPORT A
GEOGRAPHY AND TOPOGRAPHY



Field Reconnaissance

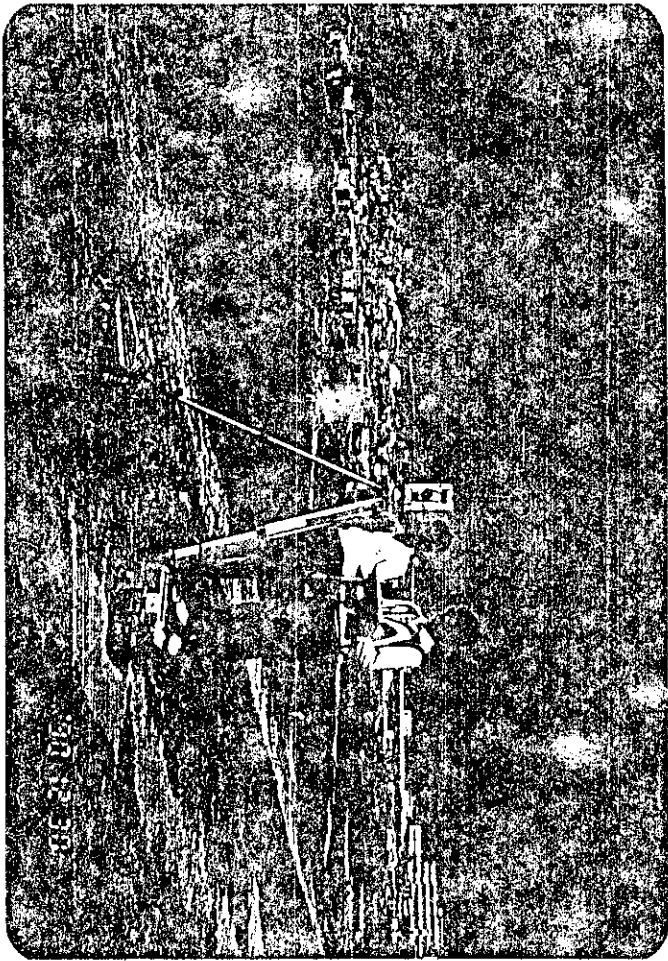
<u>Table of Contents</u>	<u>Page</u>
1. Location and Land From	A-1
2. Available Topographic Map	A-1
3. Survey Datum	A-2
4. Supplementary Survey	A-3
4.1 General	A-3
4.2 Updating of Topographic Map	A-4
4.3 Longitudinal and Cross Sectional Survey of River and Drainage Channels	A-5
4.4 Other Surveys	A-6

List of Tables

Table A.1	List of Existing Control Point.....	A-7
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List of Figures

Fig.A.1	Location Map of the Study Area	A-8
Fig.A.2	Land Form of the Study Area	A-9
Fig.A.3	Existing Map Index	A-10
Fig.A.4	1 / 7,920 Scale Contour Map Sheet Index	A-11
Fig.A.5	1 / 15,840 Scale Contour Map Sheet Index	A-12
Fig.A.6	1 / 10,000 Scale Map Sheet Index	A-13
Fig.A.7	Existing Control Point Location Map	A-14
Fig.A.8	Updated Sheet Index	A-15
Fig.A.9	Route of Spot Levelling Survey	A-16
Fig.A.10	Area of Grid Spot Levelling Survey	A-17
Fig.A.11	Location of Longitudinal and Cross-sectional Survey of River	A-18
Fig.A.12	Location of Longitudinal and Cross-sectional Survey of Canal	A-19



Topographic Survey

SUPPORTING REPORT A
GEOGRAPHY AND TOPOGRAPHY

SUPPORTING REPORT A: GEOGRAPHY AND TOPOGRAPHY

1. Location and Land Form

The study area (approx. 850 km²) is situated in between lat. 23°34' N-lat. 23°59' N and long. 90°13' E-long. 90°33' E, and consists of the Greater Dhaka and part of Tongi, Savar, Keraniganj and Narayanganj (Fig. A.1).

The study area is composed of alluvial terraces and low lying areas. Dhaka city and surrounding towns are located mainly on alluvial terraces, named the Madhupur Jungale Terrace.

A rough land form map which illustrates stretches of comparatively high elevated areas and low lying areas in the study area was prepared based on the contour maps collected, accuracy of which is likely to be considerably varied (refer. Fig. A.2).

The map shows the following land form areas :

<u>Land form Area</u>	<u>Description</u>
- 1	higher than 10.0 meter (GTS)
- 2	8.0 - 10.0 meter (GTS)
- 3	6.0 - 8.0 meter (GTS)
- 4	4.0 - 6.0 meter (GTS)
- 5	2.0 - 4.0 meter (GTS)
- 6	lower than 2.0 meter (GTS)

The land form areas - 1 and -2 are supposed to be safe from normal floods, but the land form area -3 seems to be marginally free from floods. Distinct low land is lying towards the north-west and east side of Dhaka city.

2. Available Topographic Map

Several kinds of topographic maps were collected from SOB, BWDB, SPARRSO and other concerned agencies through FPCCO coordination. They are listed below.

<u>Scale</u>	<u>Description</u>
--------------	--------------------

1. 1: 4,000	: prepared in 1986 with contour lines covering only a part of Narayanganj (Fig. A.3).
2. 1: 7,920	: prepared in 1965 - '72 with contour lines covering G. Dhaka, Keraniganj and partly Tongi and Narayanganj (Fig. A.4).
3. 1: 15,840	: prepared in 1964-'72 with contour lines covering Savar, Tongi and Narayanganj (Fig. A.5).
4. 1: 10,000	: prepared in 1989 partly with contour lines based on aerial photos 1983/84 covering G. Dhaka, Keraniganj, Tongi and partly Narayanganj (Fig. A.6).
5. 1: 20,000	: reduced map of the above 1 : 10,000 scale map.
6. 1: 50,000	: prepared in 1971-'89 covering the whole country with no contour lines (Fig. A.3).
7. 1: 50,000	: spot satellite image taken in February - March, 1989 covering the whole country, indexed as of Fig. A.3.

Except the spot image map, the 1/10,000 scale map is the latest available map with recent field verification. The 1/50,000 scale map (No. 6 of above) was prepared by using old air-photos, and also contour maps of scales 1/7,920 (No. 2 of above) and 1/15,840 (No. 3 of above) were prepared during the period of East Pakistan.

Accordingly, above maps are old to use for the master plan. So, the 1/50,000 scale map is required to update by the latest maps, air-photos, field verification and other available data.

3. Survey datum

Two datums, called GTS and PWD are used for elevation survey in Bangladesh. The GTS (Great Trigonometrical Survey) is the Bangladesh standard datum of levelling. The national topographic map series is prepared based on GTS. On the other hand, PWD datum is used for hydrographic survey. The relationship of both datums is ;

$$PWD = GTS + 1.509 \text{ feet}$$

In the study area and its surroundings, there are seven (7) GTS bench marks established by SOB and eight (8) BWDB bench marks based on PWD datum. The location and elevations of these control points are shown in Fig. A.7 and Table A.1 respectively.

Out of the above control points, Ramna BM (GTS bench mark), which was used in JICA previous surveys from 1987 to 1990, was selected as the basic bench mark in this leveling survey. The elevation of Ramna BM is 24.2718 ft, a value that was confirmed by check levelling survey between Mymensingh and Comilla during 1966 - 1967.

4. Supplementary Survey

4.1 General

The supplementary survey was carried out to obtain the necessary data for hydrological and hydraulic analysis, and formulation of flood mitigation and stormwater drainage plan.

The supplementary survey consists of the followings ;

- 1) For updating the existing topographic maps (1:50,000, 1:20,000)
 - Spot height survey of the whole study area
 - Spot height survey for preparation of contour lines of low lands
- 2) For preparation of longitudinal and cross sections of rivers and drainage channels
 - Longitudinal and cross sectional survey
- 3) For existing facilities
 - Levelling and structural dimension survey

4.2 Updating of Existing Topographic Map

4.2.1 Spot height survey

1) Spot height of whole study area

In order to obtain a general feature of ground elevation in the whole study area, spot levelling was conducted along the existing roads shown in Fig. A.9. This survey was carried out at intervals of 200 m along the road. At each road location spot height determined of every 250 m pitch for a symmetric cross section of 0.5 km to either side of the road (a total of 1 km).

The total number of spot heights was approx. 5,700 points. The elevation of key points were indicated on the updated 1: 50,000 scale map.

2) Spot height of low land area

Grid spot height levelling was carried out at intervals of 100 m by 200 m. These data was used to draw the 50 cm contour lines of low land areas shown in Fig. A.10. The total number of grid heights were approx. 800 points.

4.2.2 1/50,000 scale map

The existing 1: 50,000 national map was updated based on the following available data. The updated map is used as the base map of this master plan study.

- 1) Satellite coloured spot image maps taken in February - March, 1989
- 2) 1/10,000 scale SOB maps (DHAKA CITY AND SURROUNDINGS) based on aerial photos 1983/84.
- 3) 1/50,000 scale national series of coloured infra-red air-photos taken in 1983/84.
- 4) 1/50,000 scale skeleton line map (DHAKA METROPOLITAN AREA) based on 1983/84 photos, SPARRSO.

For updating the 1/50,000 map, the spot image was used for the correction of the shape of rivers, major khals and also marsh area, because it is the latest available image. The areas covered by 1/10,000 scale map, was updated using these maps. The colour infra-red air-photos were referred to correct the planimetric features.

The SPARRSO skeleton map was used to refer the names of some facilities and minor roads. These items were verified on the field during December, 1990 to January, 1991.

About 800 key spot heights were added to this 1/50,000 scale map according to the results of spot height survey.

4.2.3 1/20,000 scale map

The 1/20,000 scale map covering the Greater Dhaka and Narayanganj area of about 380 km² was prepared for the subsequent feasibility study.

Following maps were used for this preparation:

- 1) 1/20,000 scale SOB maps.
- 2) 1/10,000 scale Dhaka city map prepared by JICA study team on Storm Water Drainage System Improvement Project, October 1987.
- 3) 1/15,840 scale Water Development Map

New maps were compiled from the above three kind of existing maps were used. The low land areas were inserted the contour lines at the intervals of 50 cm according to the results of grid spot height survey and also, corrected by field verification in February, 1991.

The areas of contour drawing is about 170 km² as shown in Fig. A.10.

All existing maps used for this map preparation were paper printed, as such the conditions of sheet connection between successive maps was not so good at some portions.

4.3 Longitudinal and Cross Sectional Survey of River and Drainage Channels

Longitudinal & cross-sectional surveys of the five (5) rives and 55 drainage channels in the study area were carried out during the period February to March, 1991. The surveyed longitudinal length and number of cross-section are summarized below :

River	Length (Km)	Nos. of Section
(1) Balu River	27.6	7
(2) Tongi Khal	14.4	3
(3) Turag River	30.0	4
(4) Karanatali River	11.2	4
(5) Haidarabad Khal	3.7	3
Total	86.9	21

Drainage Area	Nos. of Khal	Length (Km)	Nos. of Section
(1) Dhaka North West	8	26.1	35
(2) Dhaka East	17	54.8	72
(3) Narayanganj & DND	21	49.3	77
(4) Keraniganj	9	24.8	32
Total	55	155.0	216

Location of the above longitudinal and cross-sectional surveys are shown in Fig. A.11 & Fig. A.12. These drawings based on the PWD Datum were compiled as a survey data book.

4.4 Other Surveys

For the existing flood control facilities, following surveys were conducted.

- 1) Spot height survey of the existing flood-wall around DND project area in Narayanganj.
- 2) Structural demension survey of five (5) sluice gate at west bank of the Great Dhaka.

TABLE A.1 List of Existing Control Point

1. Geodetic Survey Mark (S.O.B)

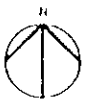
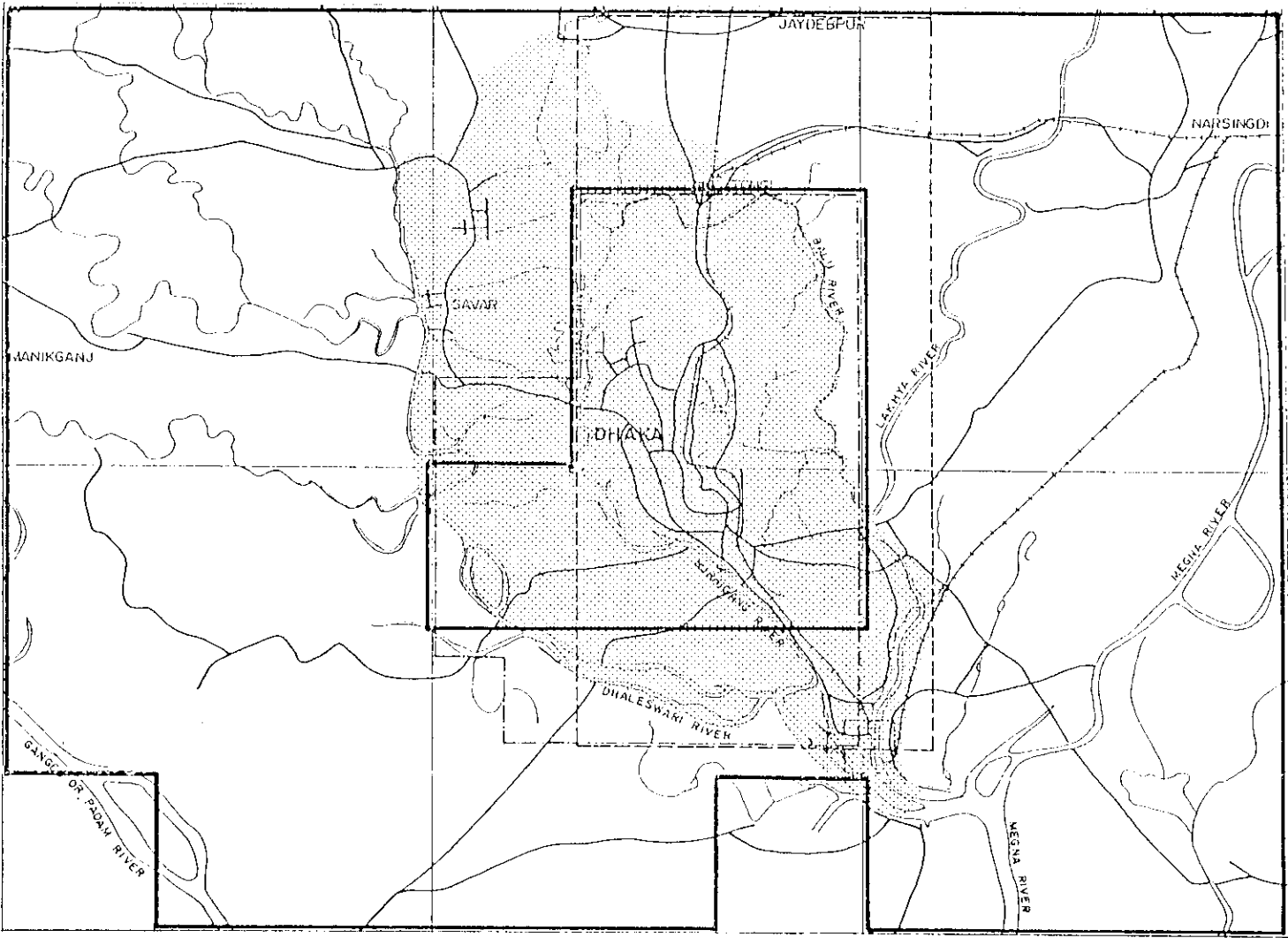
Name of Geodetic Survey Point	Latitude	Longitude
Nayathat B.T.S	23° 54' 33.997"	90° 13' 54.874"
Tongi B.T.S	23° 53' 45.43"	90° 24' 36.77"
Savar B.T.S.	23° 51' 36.48"	90° 16' 01.62"
Gulshan B.T.S	23° 47' 49.54"	90° 25' 06.49"
MET. Office	23° 46' 08.018"	90° 23, 01.207"

2. G.T.S. BM (S.O.B)

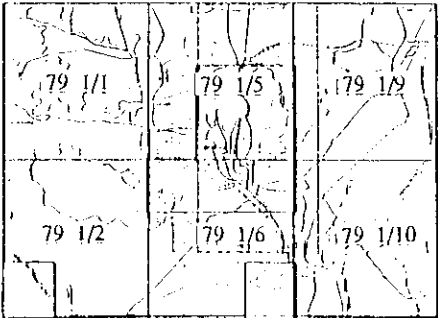
Name of B.M. (S.O.B)	Value in GTS
A/21	27.447 ft.
S.O.B	27.3810
B - 79	22.970
G - 8	20.370
Ramna B.M.	24.2718
G.B. M - 1	20.5154
G.B. M - 2	22.7894

3. BWDB BM (PWD)

Name of Gauge Station	B.M. Value in PWD	Latitude	Longitude
7.5 Demra	6.817 m	23° 44' N	90° 30' E
14.5 Nayathat	9.316	23° 54' N	90° 14' E
42 Milbarak	6.776	23° 14.9' N	90° 25.3' E
69 Savar	8.358	24° 14.9' N	90° 11' E
299 Tongi	10.644	23° 52.8' N	90° 24.2' E
7 Pubail	7.529	23° 56.5' N	90° 29.8' E
302 Mirpur	10.451	23° 47.3' N	90° 20.3' E
71 Kalagachia	5.450	23° 34.7' N	90° 32.7' E



SHEET NO. (1 : 50,000)



LEGEND

SCALE (SURVEY YEAR)

- 1 : 15,840 (1964 - 1972)
- 1 : 7,920 (1965 - 1972)
- 1 : 10,000 (1989)
- 1 : 4,000 (1986)

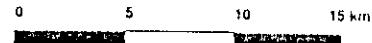


FIG. A.3 EXISTING MAP INDEX

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

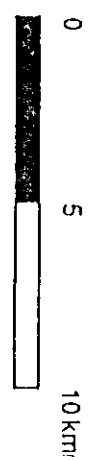
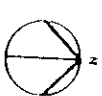
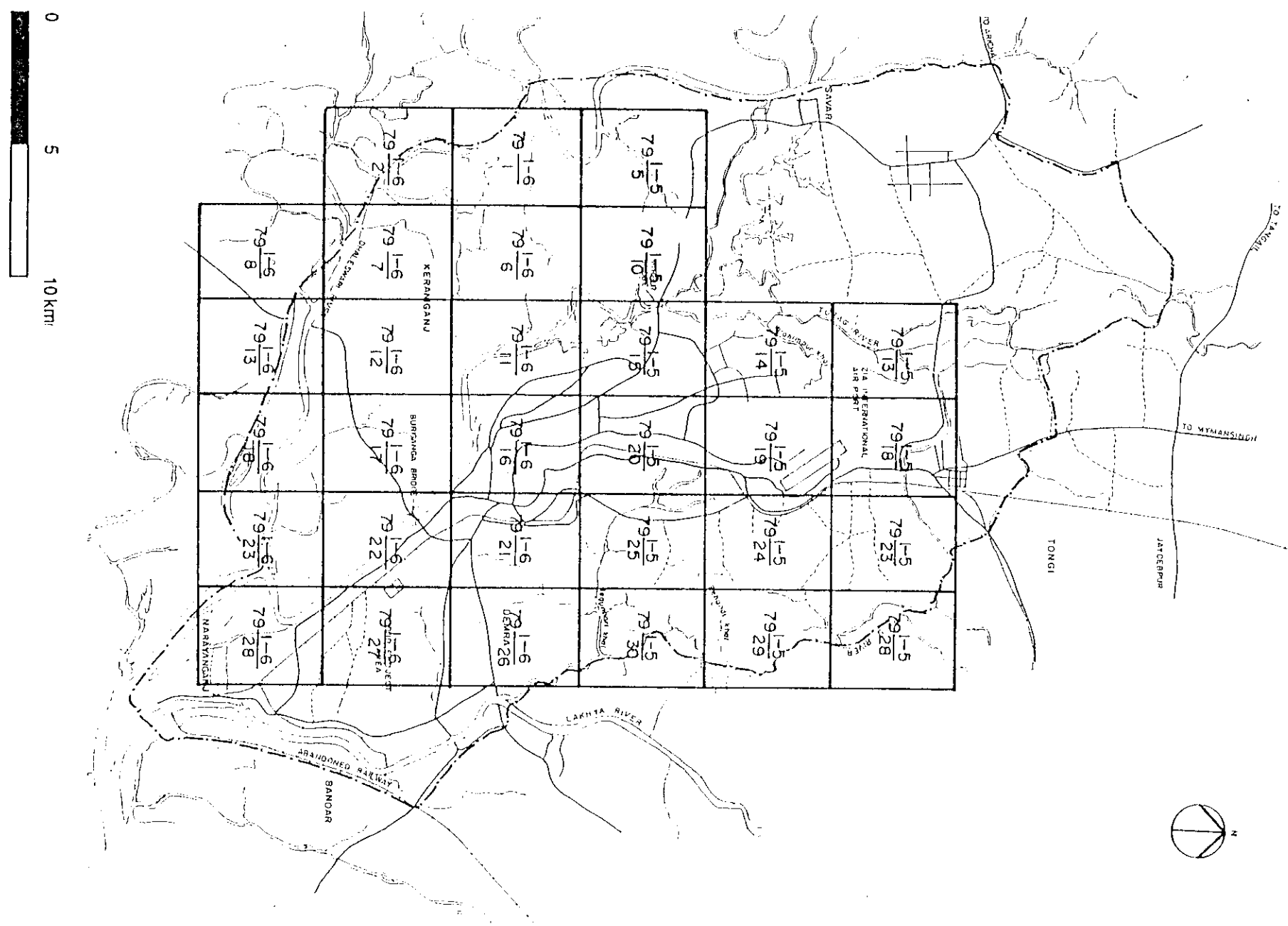


FIG. A.4 1 / 7,920 SCALE CONTOUR MAP SHEET INDEX

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

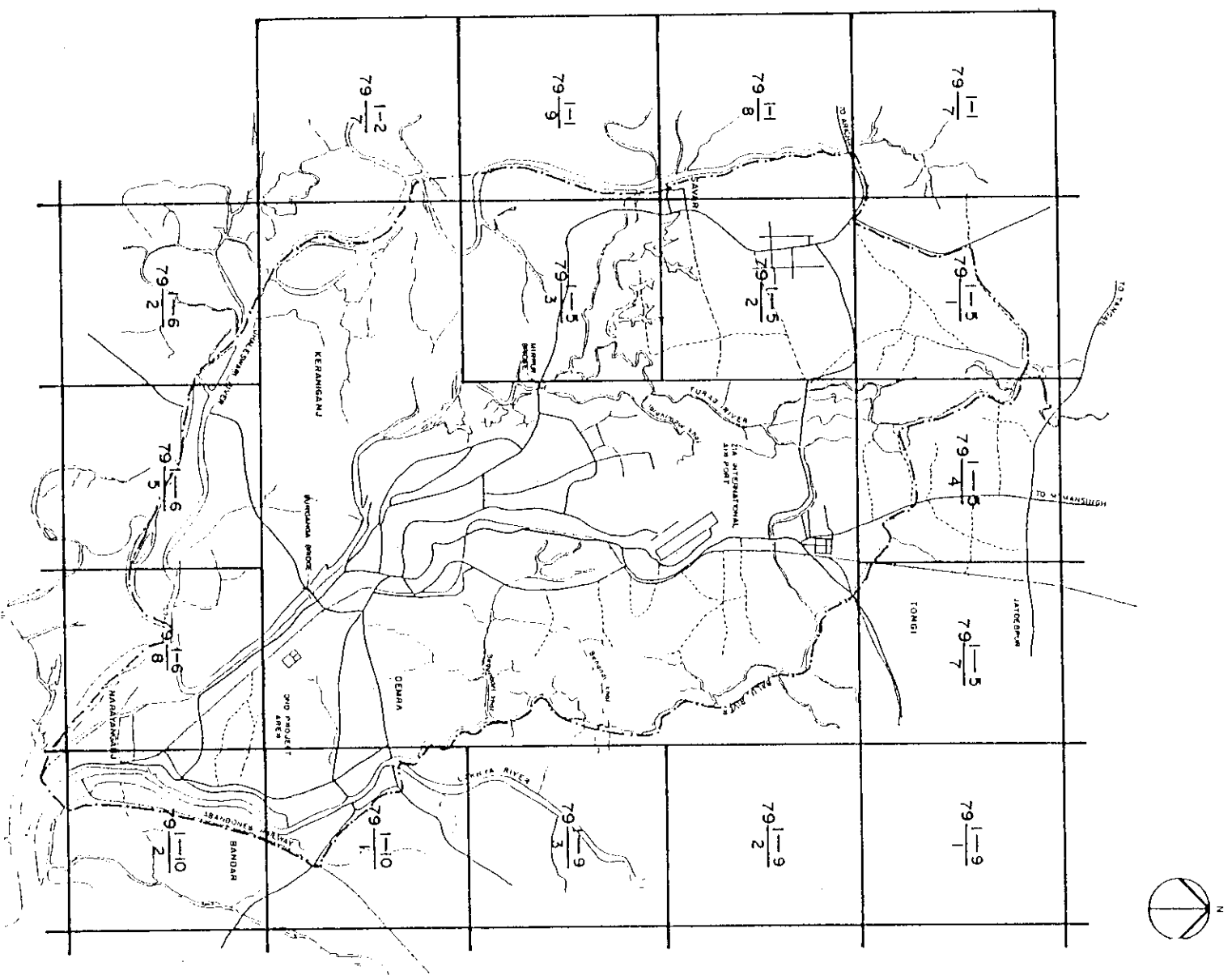


FIG. A.5 1 / 15,840 SCALE CONTOUR MAP SHEET INDEX

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

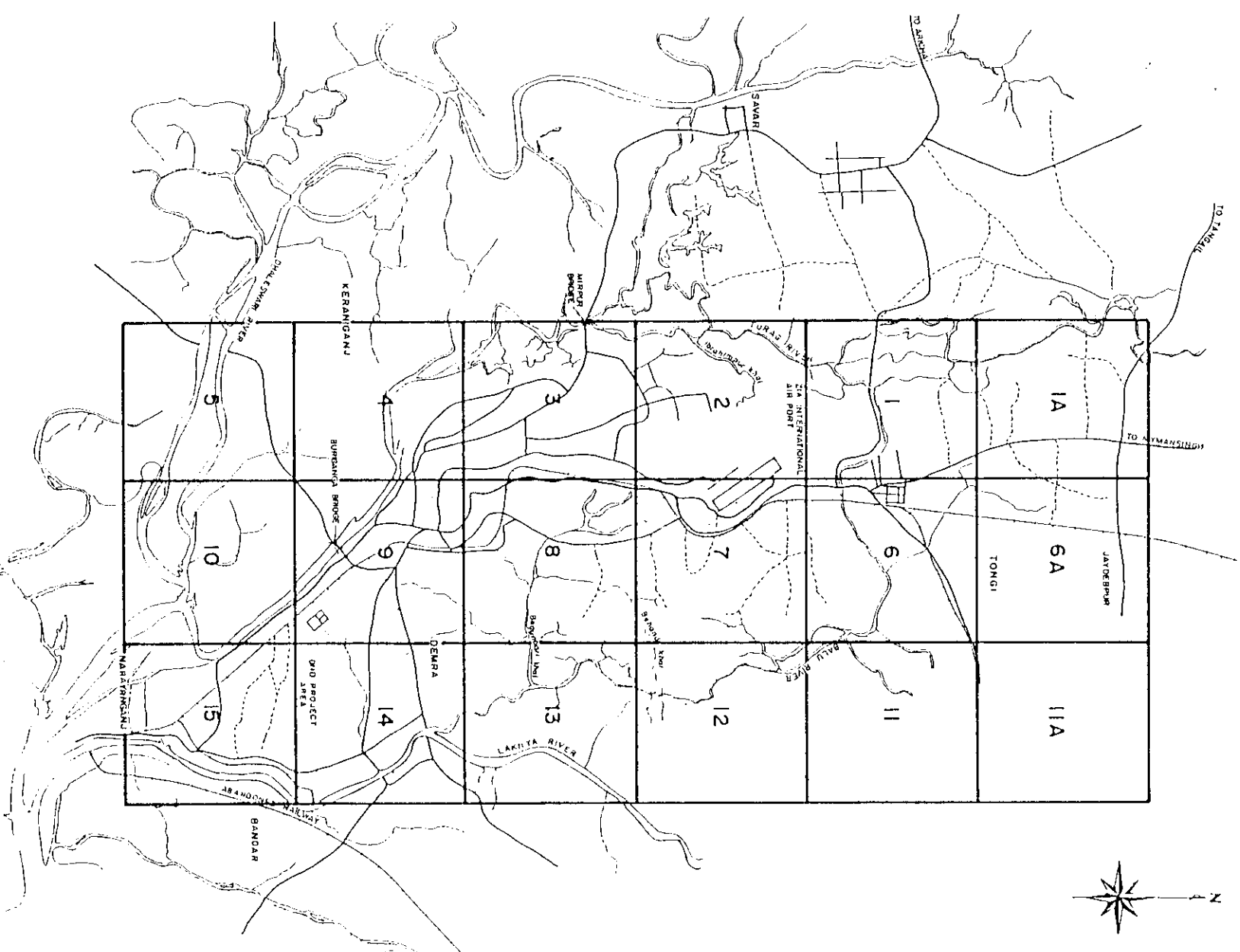


FIG. A.6 1 / 10,000 SCALE MAP SHEET INDEX

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

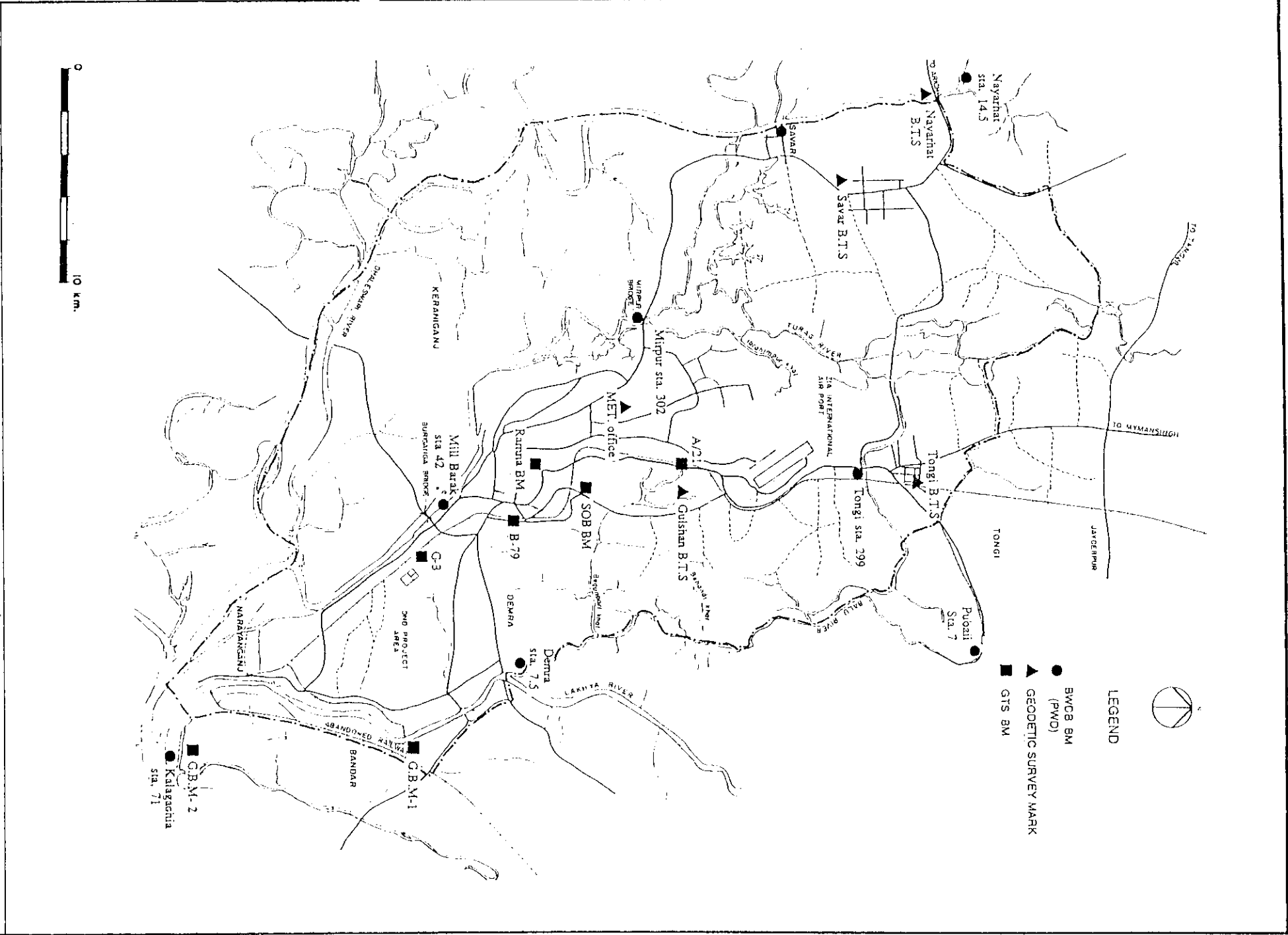


FIG. A.7 EXISTING CONTROL POINT LOCATION MAP

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLTAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH

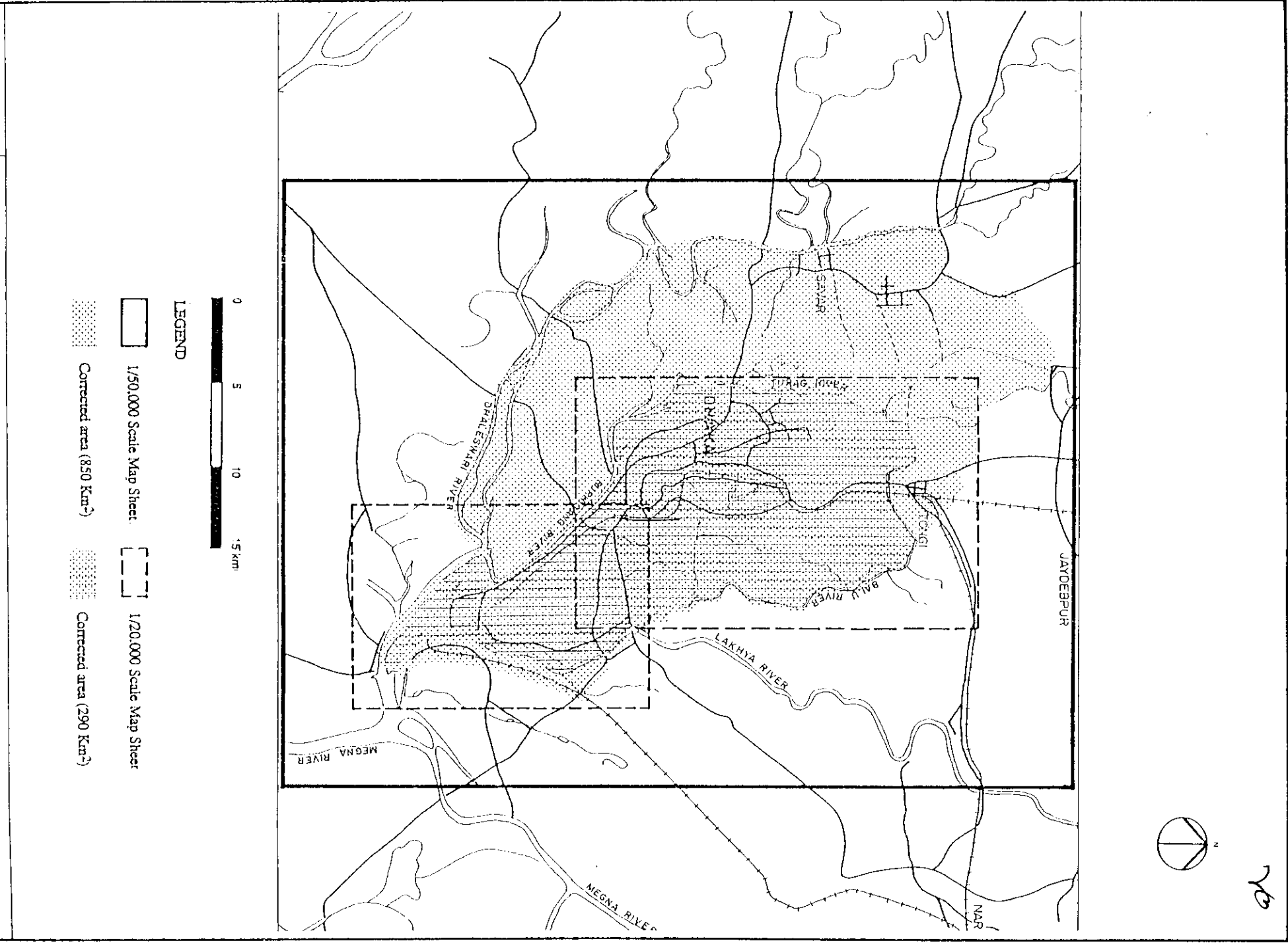
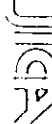


FIG. A.8 UPDATED SHEET INDEX

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOLTAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLE'S REPUBLIC OF BANGLADESH



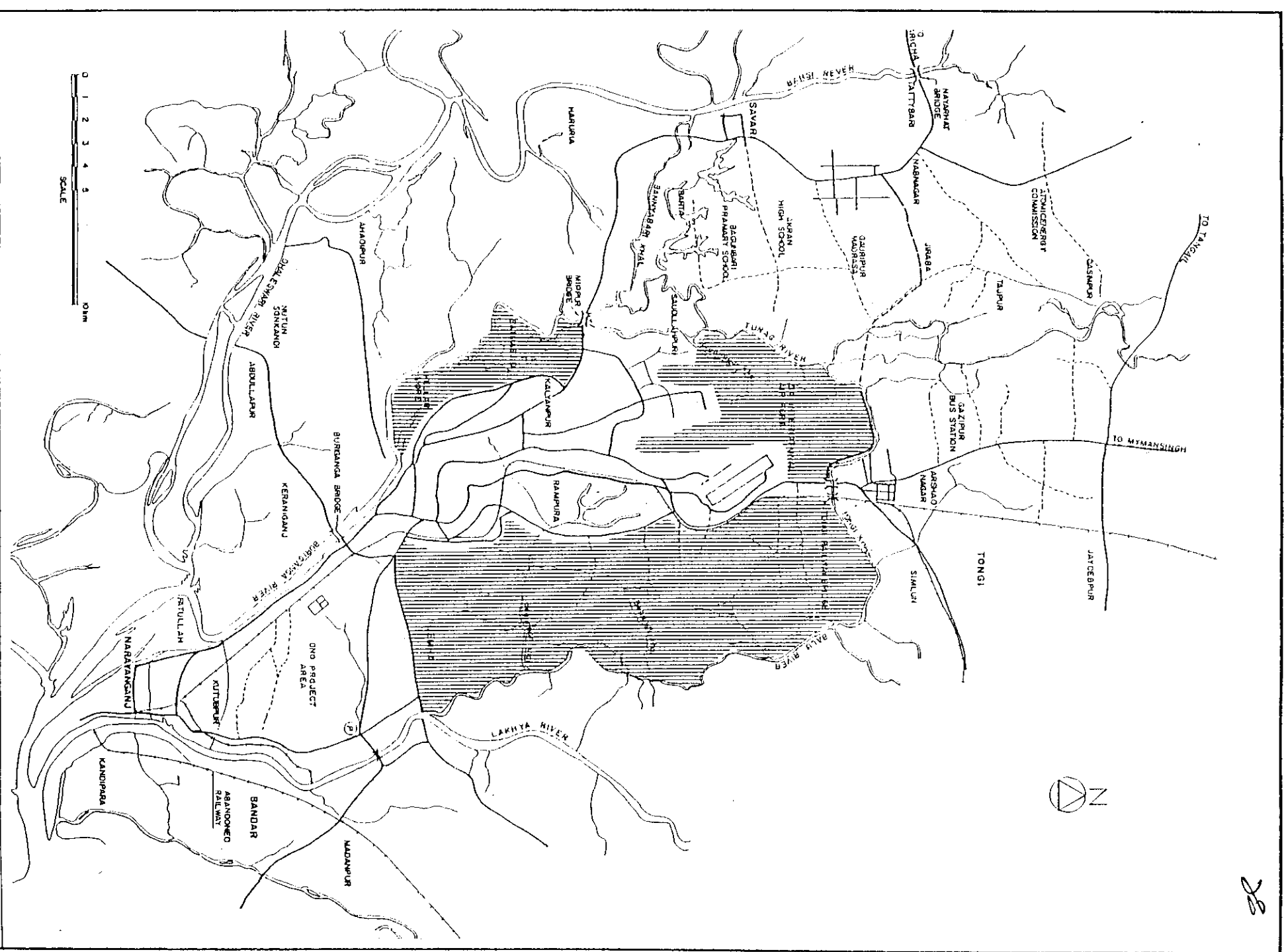
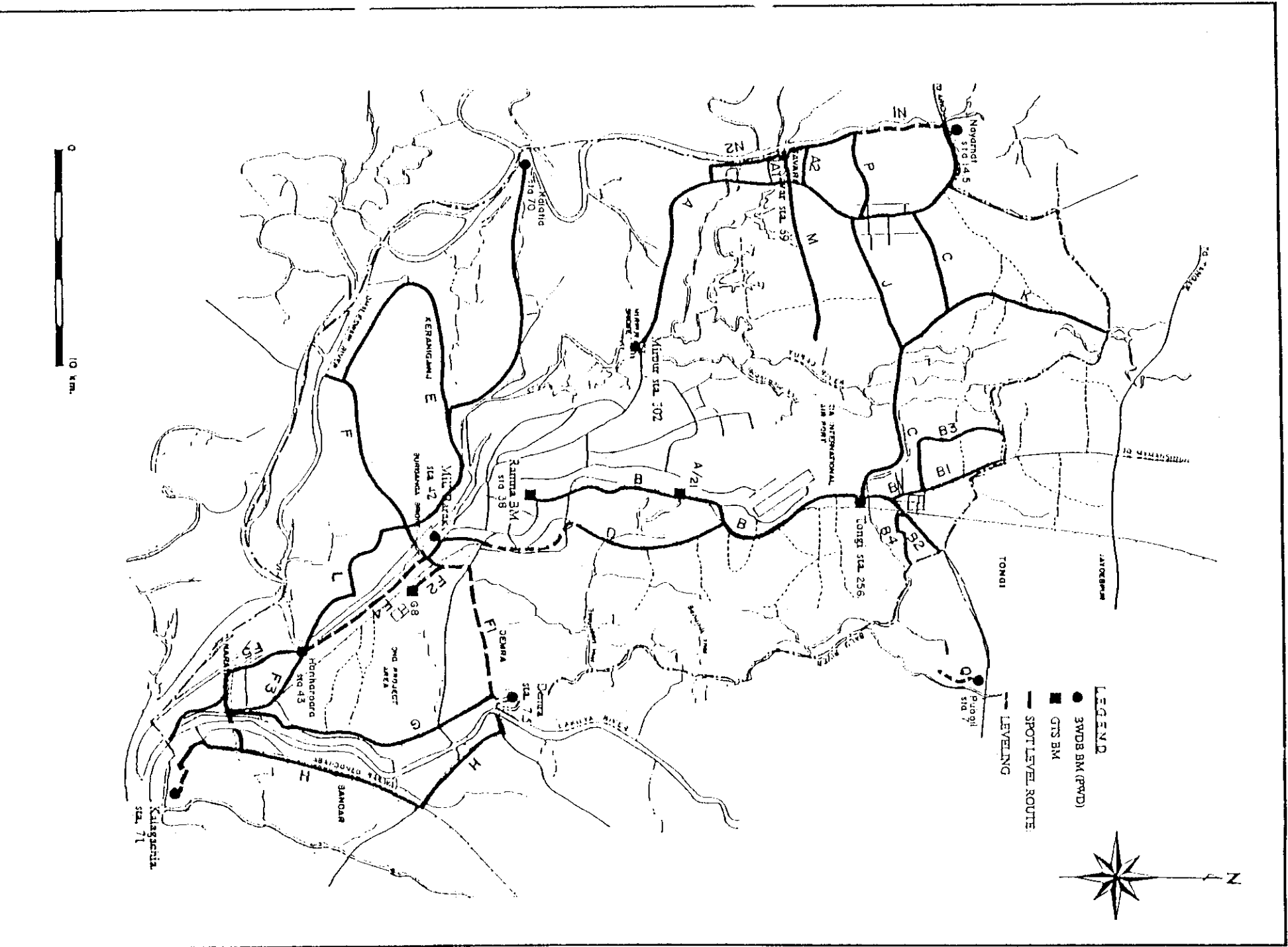




FIG. A.11 LOCATION OF LONGITUDINAL AND CROSS-SECTIONAL SURVEY OF RIVER

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLES REPUBLIC OF BANGLADESH

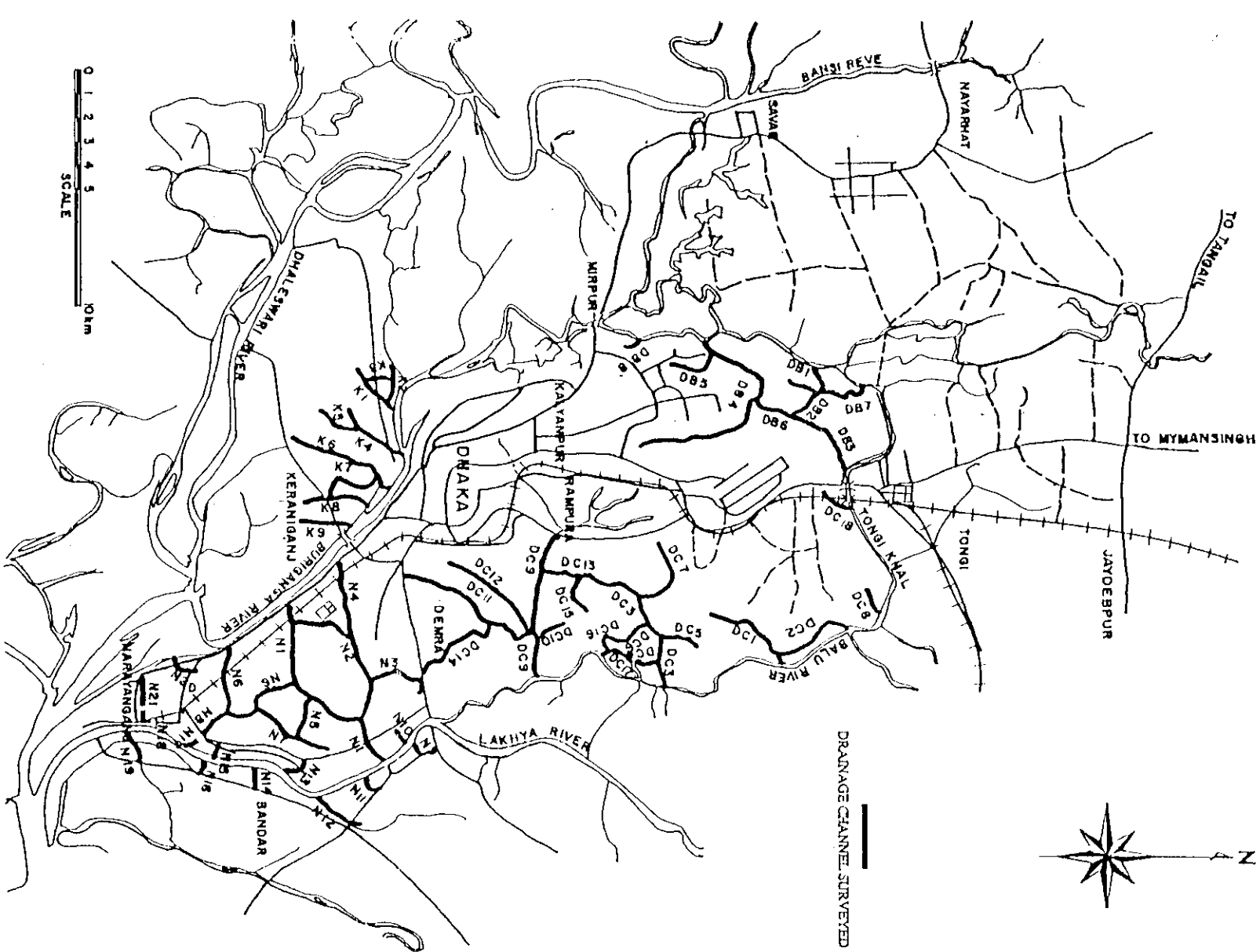


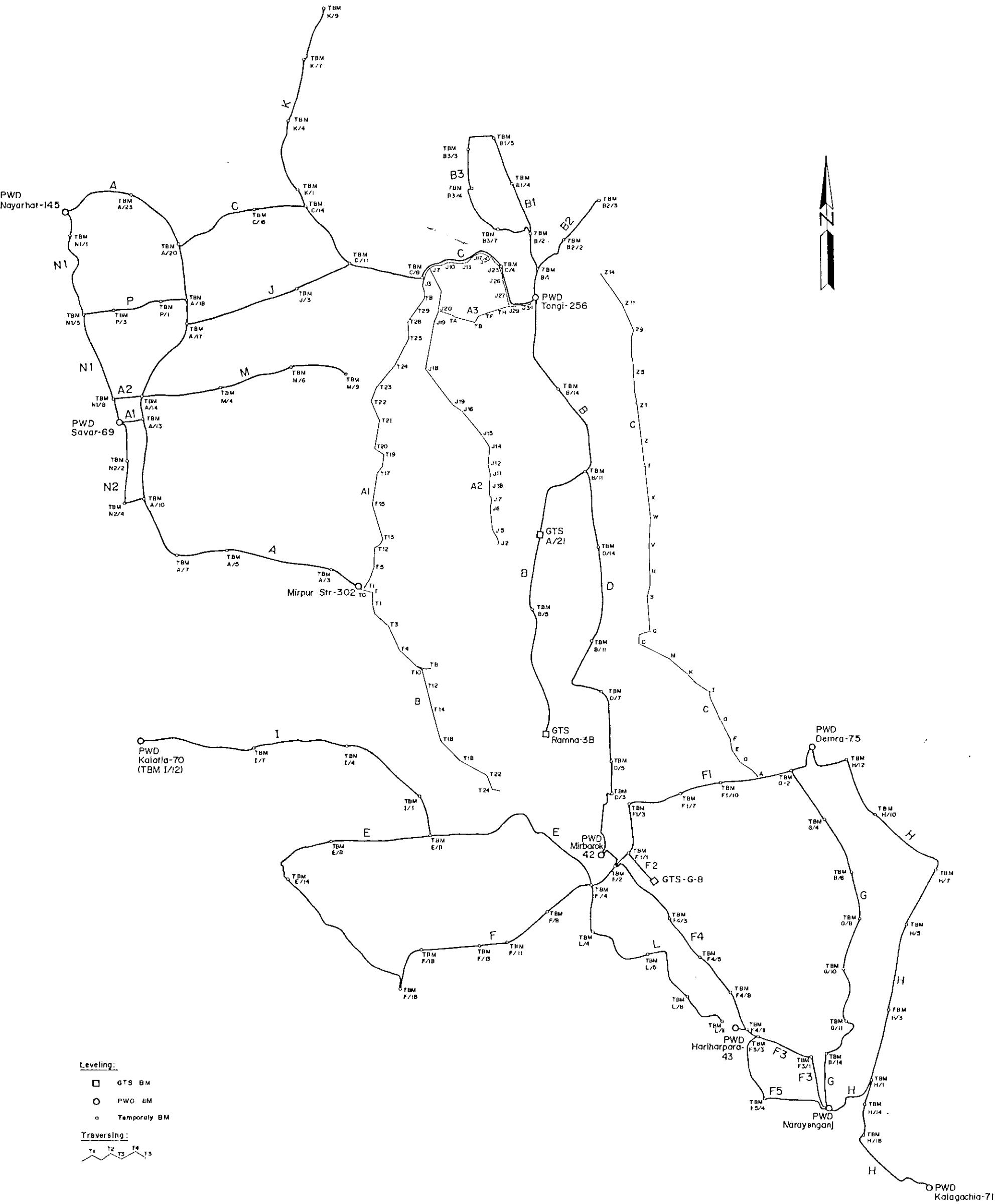
FIG. A.12 LOCATION OF LONGITUDINAL AND CROSS-SECTIONAL SURVEY OF CANAL

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROLOITAN AREA) OF BANGLADESH FLOOD ACTION PLAN NO.8A IN THE PEOPLES REPUBLIC OF BANGLADESH

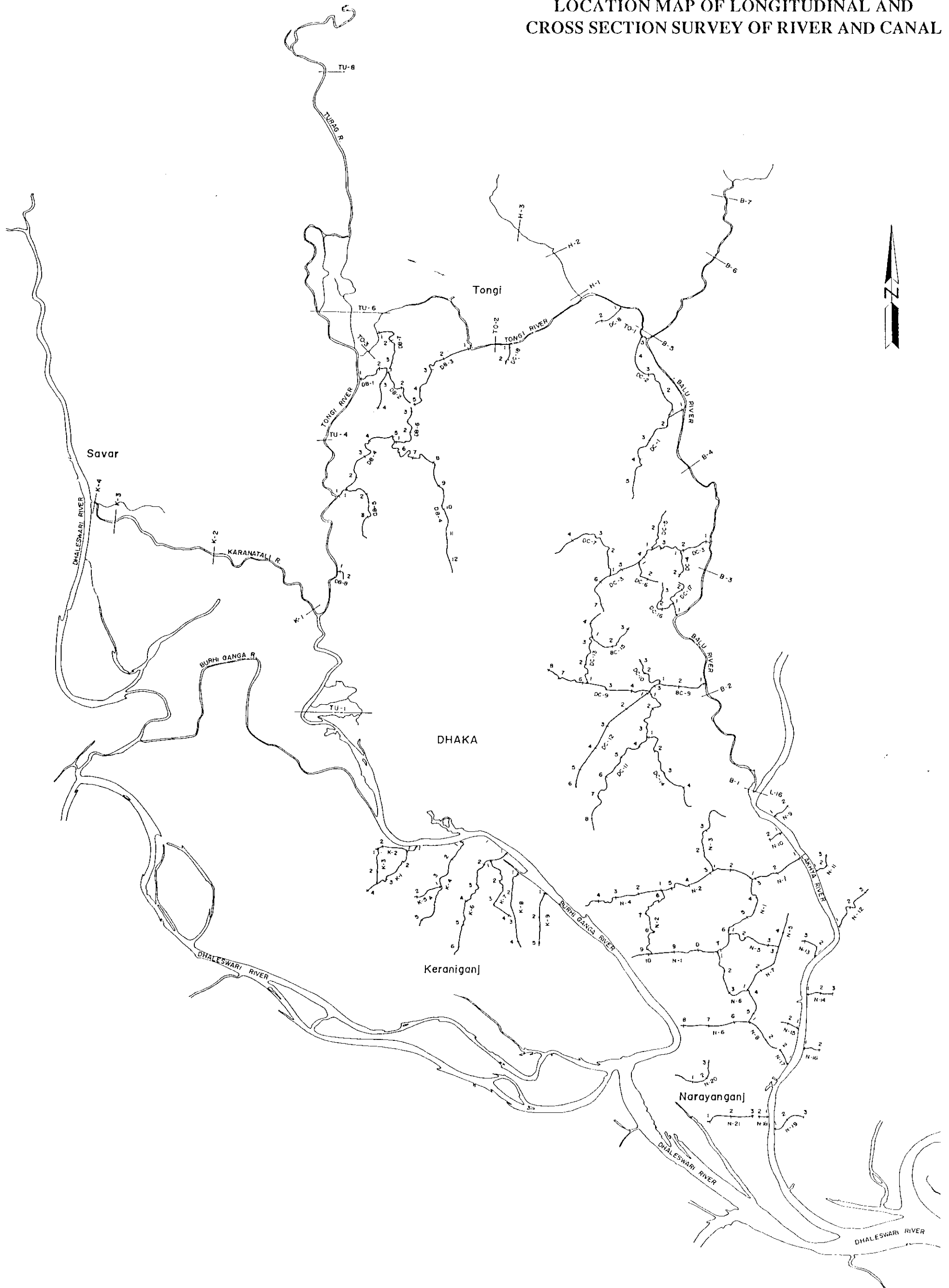
2. LONGITUDINAL AND CROSS SECTION

2.1 TRAVERSING/LEVELING NETWORK
MAP AND LOCATION MAP OF
LONGITUDINAL/ CROSS SECTION
SURVEY OF RIVER AND CANAL

TRAVERSING AND LEVELING NETWORK MAP



LOCATION MAP OF LONGITUDINAL AND CROSS SECTION SURVEY OF RIVER AND CANAL



2.2 DESCRIPTION OF BENCH MARK

DHAKA CITY RANCH MARK

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
<u>LINE - A :</u>			
<u>LINE - A1 :</u>			
FROM BMD, WINDUP BRIDGE TO BMD, BM			
NABHAT BRIDGE.			
A-1	Marked on the west-end of top stair of Mafid-e-Am High School, Amin Bazar which is Right side of Dhaka-Aricha road.	5.391	
A-2	Marked on the south-west corner of wing wall of bridge on Dhaka-Aricha road which is about 500m away from Amin Bazar.	10.257	
A-3	Marked on the base of kilometre post Dhamrai 23 km. and Dhaka 15 km. on Dhaka-Aricha road.	7.308	
A-4	Marked on the base of kilometre post Aricha 72 km. and Dhaka 16 km. on Dhaka-Aricha road.	6.984	
A-5	Marked on the base of kilometre post Dhamrai 21 km and Dhaka 17 km. which is about 280m East of Ballampur bus stand on Dhaka-Aricha road.	7.641	
A-6a	Marked on the west corner of wing wall of a bridge which is about 1 km. East from Hemayetpur Bazar.	12.047	
A-B	Marked on the top of kilometre post Aricha 70 km. Saver 3 km. and Dhaka 13 km. which is about 1 km. East from Hemayetpur Bazar.	8.919	
A-7	Marked on the base of kilometre post Dhamrai 19 km. and Dhaka 19 km. which is at Hemayetpur Bazar.	7.643	
A-3	Marked on the base of kilometre post Aricha 68km. and Dhaka 20 km. which is about 1 km. from Hemayetpur Bazar.	7.319	
A-9	Marked on the base of kilometre post Dhamrai 17km and Dhaka 21km. on Dhaka-Aricha road.	7.785	
A-10	Marked on the base of kilometre post Dhamrai 16km. and Dhaka 22 km. on Dhaka-Aricha road.	8.353	
A-11	Marked on the base of kilometre post Dhamrai 15 km. and Dhaka 23 km. on Dhaka-Aricha road.	9.200	
A-12	Marked on the base of Pucca Pillar of sign-board "SAVAD UPAZILA PALISAD" which is situated Right side of Dhaka-Aricha road.	9.018	
<u>LINE - A2 :</u>			
<u>LINE FROM BM A-14 TO BM A1-3</u>			
A2-1	Marked on the floor of Badal General Store which is about 320m West from the Saver Bus-stand and is near by the road to Saver Bazar.	8.242	
A2-2	Marked on the plinth level of Agrani Bank which is east of Saver bazar.	9.015	
<u>LINE - B :</u>			
<u>LINE - B1 :</u>			
FROM GTS, RAJNA TO BMD.			
BM, TONGI BRIDGE.			
G.T.S. Rajna 38		7.399	
B-1	Marked on the plinth level of Telephone Box which is south east of Bally road & East side Kaderail to Magbazar road.	8.663	
B-2	Marked on the plinth level of Railway crossing Guard room on Tongi Division Road, Moghbazar.	8.879	
B-3	Marked on the south east corner of mahole site which is Polytechnic opposite site from Polytechnic Institute.	8.580	
B-4	Marked on the base of Pillar at gate of Bangli Beverage Industries Limited.	8.016	
B-5	Marked on the floor level south east corner of Modern Auto Filling House, Mohakhali.	7.585	
B-6	Marked on the plinth level of Telephone box here near A.R.V. Mansion, Mohakhali.	7.105	
B-7	Marked on the base of D.O.H.S. signboard just near the P.M.I Photographers and Railway crossing.	7.927	
B-3	Marked on the base of flag stand west side of road near the Navy Gate.	7.408	
B-9	Marked on the base of Purer pole near the station of officers mess, Baman.	6.996	
B-10	Marked on the base of kilometre post Dhaka 20 km. Tongi B km. which is near the Cantonment Railway Station.	7.116	
B-11	Marked on the base of kilometre post Dhaka 14 km. Wymensingh 107 km.	6.804	
B-12	Marked on the base of Puster wall west side of Road.	7.348	
B-13	Marked on the base of kilometre post Dhaka 16 km. and Wymensingh 105 km.	7.332	
B-14	Marked on the flag wall which is near the V.V.I. Terminal	7.740	
B-15	Marked on the base of kilometre post Dhaka 18 km. and Wymensingh 103 km.	7.731	
B-16	Marked on the Island Jastuddin Avenue at Titara Model Town.	7.087	
B-17	Marked on the base of kilometre post Dhaka 20 km. Wymensingh 101 km.	9.214	
<u>LINE - B2 :</u>			
<u>LINE FROM BMD, BM TONGI.</u>			
B-1/1	Marked on the floor at the north-east side of gate of Telephone Slippa Gangsha limited at Tongi.	7.609	
B-1/2	Marked inside at the gate of Dhaka Steel works limited at Tongi Industrial Area.	8.511	
B-1/3	Marked on the plinth level south-west corner of Rasmann Market, Tongi	6.924	
B-1/4	Marked on the plinth level north-east corner of Mas Enterprise which is west side of Wymensingh road at Tongi.	6.866	
B-1/5	Marked on the flag wall south-east corner of Knined Iron and Steel limited, Tongi.	7.067	
B-1/6	Marked on the south-west corner of bridge which is near kilometre post Dhaka 28 km. & west side of Wazna Khumar, Board bazar, Tongi.	8.214	
<u>LINE - B2 :</u>			
<u>LINE FROM BMD, BM TONGI.</u>			
B-2/1	Marked on the plinth level of guard at Railway crossing at Tongi.	8.535	
B-2/2	Marked on the plinth level at Mainmati Store near Mark on T & T Colony gate, Tongi.	8.712	
B-2/3	Marked on the south-east corner of Railway bridge at Majukhan village.	10.481	
<u>LINE - A1 :</u>			
<u>LINE FROM A13.</u>			
A13	Marked on the base of Pucca Pillar of sign-board "UPAZILA SHASTA PRAKALP", SAVAR which is Right side of Dhaka-Aricha road.	8.480	
A-14	Marked on the base of kilometre post Dhamrai 12 km. and Dhaka 26 km. which is at Saver Bus stand on Dhaka-Aricha road.	9.379	
A-15	Marked on the base of kilometre post Dhamrai 11 km. Dhaka 27 km. which is 1 km. north from the Saver Bus stand on Dhaka-Aricha road.	9.705	
A-16	Marked on the base of kilometre post Aricha 60 km. Dhaka 28 km.	11.023	
A-17	Marked on the base of kilometre post Dhamrai 9 km. and Dhaka 9 km. on Dhaka-Aricha road.	12.093	
A-18	Marked on the base of kilometre post Aricha 58 km. Dhaka 30 km.	14.196	
A-19	Marked on the base of kilometre post Dhamrai 7 km. Dhaka 31 km.	13.438	
A-20	Marked on the base of kilometre post Aricha 56 km. Dhaka 32 km.	13.831	
A-21	Marked on the base of kilometre post Dhamrai 5 km. Dhaka 33 km. which is North side of Cantonment Public School Gate.	12.189	
A-22	Marked on the base of kilometre post Aricha 54 km. Dhaka 34 km.	10.060	
A-23	Marked on the base of kilometre post Dhaka 35 km. and Dhamrai 3 km. which is East of Gana Shasta Kendra on Dhaka-Aricha road.	10.407	
A-24	Marked on the base of kilometre post Aricha 52 km. and Dhaka 36 km. which is near "LINA TEXTILE INDUSTRIES LIMITED".	9.241	
A-25	Marked on the base of kilometre post Dhamrai 1 km. Dhaka 37 km.	9.933	
BMD. Nayrath 14.5		8.927	
BMD. Mipur 302		10.008	
<u>LINE - B1 :</u>			
<u>LINE FROM BMD, BM TONGI.</u>			
B-1/1	Marked on the floor at the north-east side of gate of Telephone Slippa Gangsha limited at Tongi.	7.609	
B-1/2	Marked inside at the gate of Dhaka Steel works limited at Tongi Industrial Area.	8.511	
B-1/3	Marked on the plinth level south-west corner of Rasmann Market, Tongi	6.924	
B-1/4	Marked on the plinth level north-east corner of Mas Enterprise which is west side of Wymensingh road at Tongi.	6.866	
B-1/5	Marked on the flag wall south-east corner of Knined Iron and Steel limited, Tongi.	7.067	
B-1/6	Marked on the south-west corner of bridge which is near kilometre post Dhaka 28 km. & west side of Wazna Khumar, Board bazar, Tongi.	8.214	
<u>LINE - B2 :</u>			
<u>LINE FROM BMD, BM TONGI.</u>			
B-2/1	Marked on the plinth level of guard at Railway crossing at Tongi.	8.535	
B-2/2	Marked on the plinth level at Mainmati Store near Mark on T & T Colony gate, Tongi.	8.712	
B-2/3	Marked on the south-east corner of Railway bridge at Majukhan village.	10.481	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE - B3 LINE FROM BM. 3-1/5 TO BM. 3-1/2.			
3-0/1	Marked on the pipe culvert at Gaussha village.	7.689	
3-0/2	Marked on the plinth level south-east corner of a house belongs to Naju Molla at Gaussha village.	9.278	
3-0/3	Marked on the plinth level south-west corner of a house belongs to Syed Lashkar at Sataish-omari village.	8.206	
3-0/4	Marked on the plinth level south-west corner of a house belongs to Mafiz Khan at Sataish bazar.	9.103	
3-0/5	Marked on the north-east corner of Tower of 33 KV. Line.	8.288	
3-0/6	Marked on the pipe culvert at Bara Deora village.	8.617	
3-0/7	Marked on the plinth level of Shop belongs to A. Hanu Mandal at Bazar, Tongi.	7.452	
3-0/8	Marked on the base of power pole which is near the house of Ashraful Khan at Anshupara village.	8.097	
8/21 536/			
LINE - C : FROM TONGI BRIDGE TO ARIKHA ROAD.			
BM DB	Bench Mark Tongi 299	10.248	
C-1	Marked on the south east corner of sluice gate of BMB Embankment.	8.088	
C-2	Marked on the north west corner of Mandir near the house of Motigosh at Rannabola village.	6.310	
C-3	Marked on the top of Minaret of Roshadila Iqah.	7.828	
C-4	Marked on the 2nd step of stair of a house belongs to Anwar Ali in Kamarpura village.	6.344	
C-5	Marked on the plinth level north-west corner of a house of Ali Akbar in Nayani Chula village.	5.922	
C-6	Marked on the plinth level north west corner of a house belongs to Sukur Depati in Nayani Chul village.	7.137	
C-7	Marked on the plinth level north east corner of a building belongs to Madan Sarkar in Deora Village.	7.356	
C-8	Marked on the base of pucca signboard pillar - Pitted Tongi-Asoila, Savar road.	10.172	
C-9	Marked on the base north east corner of Tower No. 2094 of 132 KV. Power line.	8.930	
C-10	Marked on the top Bambo Peg.	2.968	
C-11	Marked on the north-west corner of culvert which is north of Asolia bazar.	8.421	
C-12	Marked on the north east of plinth level of a piece house of Sekendar Ma in Tongabari village.	7.227	
C-13	Marked on the north east corner of culvert which is on Asolia to Ziribor road.	7.462	
C-14	Marked on the plinth level south west corner of a Shop of Ali Beza at Ziribor Bus stand.	10.284	
LINE - D : FROM BMDB. BM. WILL BARAK TO BM. 11 CP LINE-3 (BISRA ROAD W/2, NEW AIRPORT ROAD)			
BM DB.	Bench Mark Will Barak 42	6.424	
D-1	Marked on the south east corner of plinth level of SONALI BMT at 157 Districtary Road War.	6.247	
D-2	Marked on the north west corner of Dayaganj Bridge on Tikotoli-Dupchola road.	9.487	
D-3	Marked on the sign board.	7.784	
D-4	Marked on the Footpath on Jittrabari-Kuligan road which is at north-east gate, Dhaka city Corporation Office.	7.286	
D-5	Marked on the south west corner of Plinth level of Hotel Applio, House No. 89/1, Olsh Denchur road at South Magdipara.	7.080	
D-6	Marked on the plinth level at gate of Karala-pur High School which is south west corner of Mayekanan.	6.846	
D-7	Marked on the south-west corner of plinth level of P.B. Coloney pump house which is near Kuligan Rail gate.	7.307	
D-8	Marked on the top step of stair at door of Kuligan Shani Mosque which is west side of Kuligan Sub-Post office.	7.458	
D-9	Marked on the south west corner of staircase (Plinth level) of Walling Super Market.	6.941	
D-10	Marked on the Oil tank of P.C.M.A. OIL COMPANY LTD., D.I.T. Road, at Hajjipara.	6.381	
D-11	Marked on the plinth level south side of 2nd gate of Television Bhawan, Rampura.	7.076	
D-12	Marked on the base of Transformer Pole which is in front of Alimdaa Community Centre, Badda, Gulshan, Dhaka.	6.381	
D-13	Marked on the plinth level north west corner of Shop No. 74/75, Hossain Super Market, north Badda, Gulshan, Dhaka.	6.301	
D-14	Marked on the floor level south west corner of gate of Jaanes School, Shanjadpur, Pragati Sarani, Gulshan, Dhaka.	7.222	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE - E : LINE FROM BM P-4.			
E-1	Marked on the plinth level south west corner of Lomaganj mosque near door villa at Jangira.	6.382	
E-2	Marked on the base of Power Pole which is near kilometre post 1/41 km & side of Nurul Islami's House at Bondabagan village.	5.767	
E-3	Marked on the top of kilometre post 2/40 km. which is near Kalindi Girls' School.	6.676	
E-4	Marked on the top of kilometre post 3/39 km which is near Necross mosque.	6.402	
E-5	Marked on the north-east corner of parapet wall of bridge and is near kilometre post 4/38 km.	8.460	
E-6	Marked on the base of Power Pole near kilometre post 5/37 km.	4.912	
E-7	Marked on the top of kilometre post 6/36 km. which is at Konakola village.	6.757	
E-8	Marked on the north-east corner of Vally bridge near Sakta High School	7.024	
E-9	Marked on the wall of pipe culvert left side of road near Karkata village.	3.089	
E-10	Marked on the wall of pipe culvert which is right side of road near the village Ramerkanda.	4.287	
E-11	Marked on the south-west corner of bridge which is at Rohitpur Bazar and near the Ramerkanda College.	6.716	
E-12	Marked on the north west corner of parapet wall of Rautipur bridge.	2.633	
E-13	Marked on the south west corner of graveyard wall which is named Kalai Pakir Majar at Sonakanda.	7.185	
E-14	Marked on the south east corner of big wall of Sonakanda bridge which is near the bus stand.	7.487	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE - F : FROM WILL BARAK TO DHALES-BAIRI RIVER BANK ALONG MWA ROAD.			
P-1	Marked on the plinth level Faridabad Tele-phone office building.	6.668	
P-2	Marked on the plinth level of post box, Postagola Army Cantonment gate.	6.807	
P-3	Marked on the base of light post south side of Chaina bridge over Bariganga river.	11.401	
P-4	Marked on the south-east corner of bridge No.1/8 (Skuria Bridge) on Dhaka Mawa road.	7.021	
P-5	Marked on the south-west corner of bridge No.2/2 on Dhaka Mawa road.	7.427	
P-6	Marked on the base of kilometre post Dhaka 8 km on Dhaka-Mawa road.	6.873	
P-7	Marked on the south west corner of bridge No.9/1 on Dhaka-Mawa road.	7.403	
P-8	Marked on the base of kilometre post Dhaka 9 km on Dhaka-Mawa road.	6.933	
P-9	Marked on the north west corner of culvert No.10/1 on Dhaka-Mawa road.	7.426	
P-10	Marked on the base of kilometre post Dhaka 10 km on Dhaka-Mawa road.	6.943	
P-11	Marked on the north-west corner of Bailey bridge over pointer khal at Rajendrapur Bus Stand.	6.100	
P-12	Marked on the north west corner of culvert No.12/1 on Dhaka-Mawa road.	7.219	
P-13	Marked on the base of kilometre post Dhaka 12 km on Dhaka - Mawa road.	6.373	
P-14	Marked on the base of kilometre post Dhaka 13 km on Dhaka - Mawa road.	6.304	
P-15	Marked on the base of kilometre post Dhaka 14 km on Dhaka - Mawa road.	6.883	
P-16	Marked on the base of kilometre post Dhaka 15 km on Dhaka - Mawa road.	7.173	
P-17	Marked on the south east corner of culvert No.16/1 on Dhaka-Mawa road.	7.135	
P-18	Marked on the base of kilometre post Dhaka 16 km on Dhaka - Mawa road.	7.324	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE- P1: Line from BM P2 to BM G2.			
P1-1	Marked on the plinth level of Diana Cinema Hall.	5.249	
P1-2	Marked on the plinth level of Sangit Cinema Hall.	5.214	
P1-3	Marked on the plinth level Uttara Bank, Jatrebari.	6.353	
P1-4	Marked on Kujla bridge on Dhaka Demra Road.	2.433	
P1-5	Marked on the floor level at gate of Sakur Buiyru house at Kajla village.	5.981	
P1-6	Marked on the bottom of boundary wall of Bura Be-rolling Mills and Industries Ltd. north side of Dhaka-Demra road.	5.900	
P1-7	Marked on the south east corner of bridge No.41- 4 on Dhaka-Demra road at Mantail village.	9.434	
P1-8	Marked on south west corner of bridge No. 13 2 on Dhaka-Demra road at Mantail village.	7.881	
P1-9	Marked on the plinth level south west corner of Kora-wara mosque near Mantail Islamic Madrasa.	5.393	
P1-10	Marked on the north west corner of bridge No. 52 5 at Konapara village.	2.649	
P1-11	Marked on the parapet wall south east corner of bridge No.15 3 which is in front of Sufia Rolling Steel Mills Ltd.Konapara.	7.413	
P1-12	Marked on the south east corner of bridge No. 45 3 at Konapara village.	8.308	
P1-13	Marked on the south west corner of bridge No.15 3 at Dilla village.	6.993	
P1-14	Marked on the south west corner of culvert near Marm Industrial Chemicals limited.	5.624	
P1-15	Marked on the Island(Shahid Minar) on Demra trifurcate road.	7.315	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE - P-4: Line from BM P2 to S.DB, BM NO.43 at Harinarpura, Narayanganj.			
P-4/1	Marked on one Septic tank which is in front of the gate of ALAM MTR INDUSTRIES LTD. and is North side of road.	6.741	
P-4/2	Marked on the plinth level which is in front of the gate of M/S KITSUNAFIONAL LTD. 311 near Noman's Calendering Pairing Mills Limited.	6.725	
P-4/3	Marked on the floor at the gate which is in front of M.V.OIL MILLS Ltd.	6.678	
P-5/4	Marked on the base of Electric Pole which is in front of Haji Shamsuzzaman & Brothers and west side of road.	6.010	
P-4/5	Marked on the floor at the gate of V.I.P. Terminal BRTA, Fagla.	6.773	
P-4/6	Marked on the plinth level North east corner of Alijonj Cam-e-Mosque.	6.560	
P-4/7	Marked on the plinth level of Alijonj Iron works, Idarapur,Fatulla.	6.101	
P-4/8	Marked on the plinth level south east corner of K.A.I SPINNING & ENGINEERING WORKS, IDARAPUR, Fatulla.	6.403	
P-4/9	Marked on the plinth level south west corner of DGA Zam-e-Mosque, Fatulla.	7.102	
P-4/10	Marked on the plinth level north-east corner of Fatulla Bazar Mosque.	6.234	
P-4/11	Marked on the floor which is at the gate of 33/11 K.V. Power Station, Fatulla.	6.448	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE- P2: Line from PL/1 to SDB, BM, Rly. Bridge.			
P2-A	Marked on the north west corner Sympur Rly. bridge.	7.531	
	SDB Marked on the Pajekhoia Railway bridge, BMG-3 Sympur, Kadamtala.	6.128	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE- P3 Line from P3-3 to Narayanganj.			
P3-1	Marked on the bridge on the road from Panchabati-Munshigonj road.	4.004	
P3-2	Marked on the Manhole on Panchabati-Munshigonj road.	5.423	
P3-3	Marked on the step of stair in front of the house of Latif Mia.	5.361	
P3-4	Marked on the plinth level of Shopping Centre near Sympur Cinema Hall at Kashipur bazar.	5.575	
P3-5	Marked on the bridge on Kashipur-Narayanganj road.	5.363	
P3-6	Marked on the plinth level of PLY&S BISCUIT FACTORY, Palkhara, Narayanganj.	5.741	
P3-7	Marked on the traffic mur No.1 S.I. ghat Narayanganj.	6.329	
	S.DB Narayanganj.	5.817	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE-P3: Line from Harinarpura-Narayanganj.			
P3-1	Marked on the Island at Railway Gate No.1 Chasara.	6.668	
P3-2	Marked on the Manhole on Narayanganj-Dhaka Road.	6.419	
P3-3	Marked on the Manhole at Panchabati on the Narayanganj-Dhaka road.	6.874	
	S.DB Harinarpura 43 BM	5.473	

BM.NO.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
LINE -G: FROM SDB, BM DEMRA.			
G-1	Marked on the manhole at Ahmed Bawani Jute Mills which is west side of the road.	6.674	
G-2	Marked on the north east corner of Shahid Minar at the trijunction of road at Demra mur.	7.820	
G-3	Marked on the base of kilometre post 1km. which is west side of road from Demra to Narayanganj.	6.535	
G-4	Marked on the base of kilometre post 10km. which is west side of Demra-Narayanganj road.	6.732	
G-5	Marked on the base of kilometre post 9km which is west side of Demra-Narayanganj road.	7.650	
G-6	Marked on the base of kilometre post 8km on Demra-Narayanganj road.	8.721	
G-7	Marked on the base of kilometre post 7 km. which is west side of Demra-Narayanganj road.	6.508	
G-8	Marked on the base of kilometre post 6 km. west side of Demra-Narayanganj road.	6.739	
G-9	Marked on the base of kilometre post 5 km. west side of Demra-Narayanganj road.	6.940	
G-10	Marked on the base of kilometre post 4km. which is west side of Demra-Narayanganj road.	6.511	
G-11	Marked on the base of kilometre post 3km. west side of Demra-Narayanganj road.	8.016	
G-12	Marked on the base of kilometre post 2 km. west side of Demra-Narayanganj road.	6.415	
G-13	Marked on the manhole which is west side of Demra-Narayanganj road.	6.894	
G-14	Marked on the footpath at Khunpur on Demra-Narayanganj road.	6.312	
	S.DB Demra 7.5 BM	6.403	

BM.No.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
<div> <div>LINE - E.</div> <div>LINE FROM I.R.T.A.GHAT, NARAYANGUJ.</div> </div>			
H-1	Marked on the south east corner of Bandar Railway station.	7.395	
H-2	Marked on the plinth north-west corner of a Pucca house belongs to Nuruddin.	5.998	
H-3	Marked on the south-west corner of Platform of Naligunj Railway station.	7.609	
H-4	Marked on the bridge west side of Bandar-Madamnurn road	6.592	
H-5	Marked on the stair of Gutia west side of Bandar Madampur road at Ramnagar village.	5.548	
H-6	Marked south east corner of Kusipura Rail station west side of road.	7.744	
H-7	Marked on the plinth of mosque east side of Bandar-Madamnurn road.	5.961	
H-8	Marked on the kilometre post 19 km,north side of Dhaka-Chittagong road.	6.061	
H-9	Marked on the manhole,north side of Dhaka-Chittagong road.	5.686	
H-10	Marked on the footpath on Kachpur road.	7.236	
H-11	Marked on the bridge which is west side of Dhaka-Narsingdi road.	7.209	
H-12	Marked on the manhole on Dhaka-Narsingdi road.	6.684	
H-13	Marked on the manhole at Faraboo bazar.	6.120	
<div> <div>LINE - H</div> <div>Line from BM-81 (Bandar,Narayanganj) to BWDB, BM. Kalagachia.</div> <div>.....</div> </div>			
H-14	Marked on the north east corner of Railway Bridge.	9.608	
H-15	Marked on the north east corner of Railway Bridge.	7.548	
H-16	Marked on the step of stair which is in front of Railway Office.	7.376	
H-17	Marked on the step of stair to the entrance of a house belongs to Batun Mahin at Mahanganj.	5.432	
H-18	Marked on the south west corner of bridge on the Mahanganj to Kalagachia road.	6.632	
H-19	Marked on the plinth level,north west corner of a Shop of Bachmolia.	6.601	
H-20	On BWDB, BM. at Kalagachia 71	5.335	
<div> <div>LINE - I</div> <div>LINE FROM P-5 TO GANGE STATION, DHAKA.</div> </div>			
I-1	Marked on the plinth level of Mosque at Khulmura,south side of road near Tempo workshop.	6.370	
I-2	Marked on the plinth of Minar of Mosque at Bararia village which is south side of road.	5.914	
I-3	Marked on the plinth level of Nayabazar High School which is west side of building and south side of road.	5.291	
I-4	Marked on the top of wall at Joy Nagar Mosque,which is north side of road.	6.103	
I-5	Marked on the pucca pillar at Anil Chandra's House at the village Bhawal Bishnori.	5.465	
I-6	Marked on the top of stair Abu Taher's at the village Bhawal Monohar's North side of road.	5.799	
I-7	Marked on the plinth of the house belongs to Gurupush at Gutia village, south side of road.	6.229	
I-8	Marked on the plinth at Maber Sarkar's house in the village Banjipur	5.621	
I-9	Marked on the plinth of Mosque at the village Munshinda which is 115m north from the road.	6.123	
I-10	Marked on the top of wall of grave at Hassein Sarang's house at the village Begumga,north from the road.	6.999	
I-11	Marked on the culvert which is near the house of Amwar Ali at Jagannathpur village.	6.043	
I-12	Marked on the top of rice mill at Samed Sarang's House (BWDB BM Kalachia 70)	6.623	

BM.No.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
<div> <div>LINE - J</div> <div>LINE FROM BM G-11 TO BM A-17.</div> </div>			
J-1	Marked on the 2nd step of stair which is south side of Asulia Union Period Office.	9.315	
J-2	Marked on the culvert on Asulia-Savar road.	9.897	
J-3	Marked on the plinth level South west corner of Chorasbag Madrasna.	11.967	
J-4	Marked on the south west corner at wing wall of culvert which is near Auckburn bazar.	8.354	
J-5	Marked on the south side of Gate of a house belongs to Monam Khatoon near by Asulia-Savar road.	13.750	
J-6	Marked on the north west corner of wing wall of culvert on Asulia-Savar road.	8.586	
J-7	Marked on the west end of culvert near R.V.& F.depos check post.	10.823	
<div> <div>LINE - K</div> <div>LINE FROM BM G-14</div> </div>			
K-1	Marked on the base north east corner of Power line tower at at Goshbag which is near by the road.	9.752	
K-2	Marked on the Platform of Tube-well at Goshbag Mosono.	9.696	
K-3	Marked on north east corner of culvert at Narsingpur which is near a Deep Tube-well.	10.664	
K-4	Marked on the south west corner of wing wall of a box culvert which is called Gonal Dhumid and Goral Junction.	8.901	
K-5	Marked on the north east corner tube-well Platform which is the house of Pakirchand at Dandid Village.	10.137	
K-6	Marked on the floor south west corner of a shop belongs to Md. Entajuddin which is at Bagauri Madrasna.	9.062	
K-7	Marked on the south west corner of Surabari Bridge.	8.313	
K-8	Marked on the plinth level south west corner of Gasimur Rice Mill Godown.	10.199	
K-9	Marked on the 1st step of stair to the entrance of BADC Office Building at Gasimur.	8.767	

BM.No.	Description of Bench Mark Locations.	MSL/RL(M)	Remarks.
<div> <div>LINE - L</div> <div>LINE FROM BWDB, BM No-43 AT RAHIMNAGRA.</div> </div>			
L-1	Marked on the Salt tank which is west side of a Rice Mill belongs to Nwab Ali at Baire (Muslim nager) village.	5.543	
L-2	Marked on the north-west corner of mosque of Baire village	5.859	
L-3	Marked on the north west corner plinth level of house belongs to Dil Monirnad at Mamurbag village.	5.918	
L-4	Marked on the north west corner plinth level of the house at Arab Ali at Andid village.	5.836	
L-5	Marked on the north west corner of bridge which is near the house of Abu mia at Aindo (East para) village.	6.031	
L-6	Marked on the north west corner of bridge which is west side of the village Fungadon (Bairbhuti)	5.399	
L-7	Marked on the base of Power pole which is on brink of a tank at south side of Dakshin Fungadon village.	3.828	
L-8	Marked on the plinth level south east corner of Mosque at Kadir sargram (Eastpara) village.	5.246	
L-9	Marked on the base of Electric pole which is 50m south from the house of Ahsan mia at Brimanganon (Diganta)	4.830	
L-10	Marked on Salt tank which is west side of Rice Mill belongs to Nwab Ali at Byara (Muslim nager) village.	5.805	

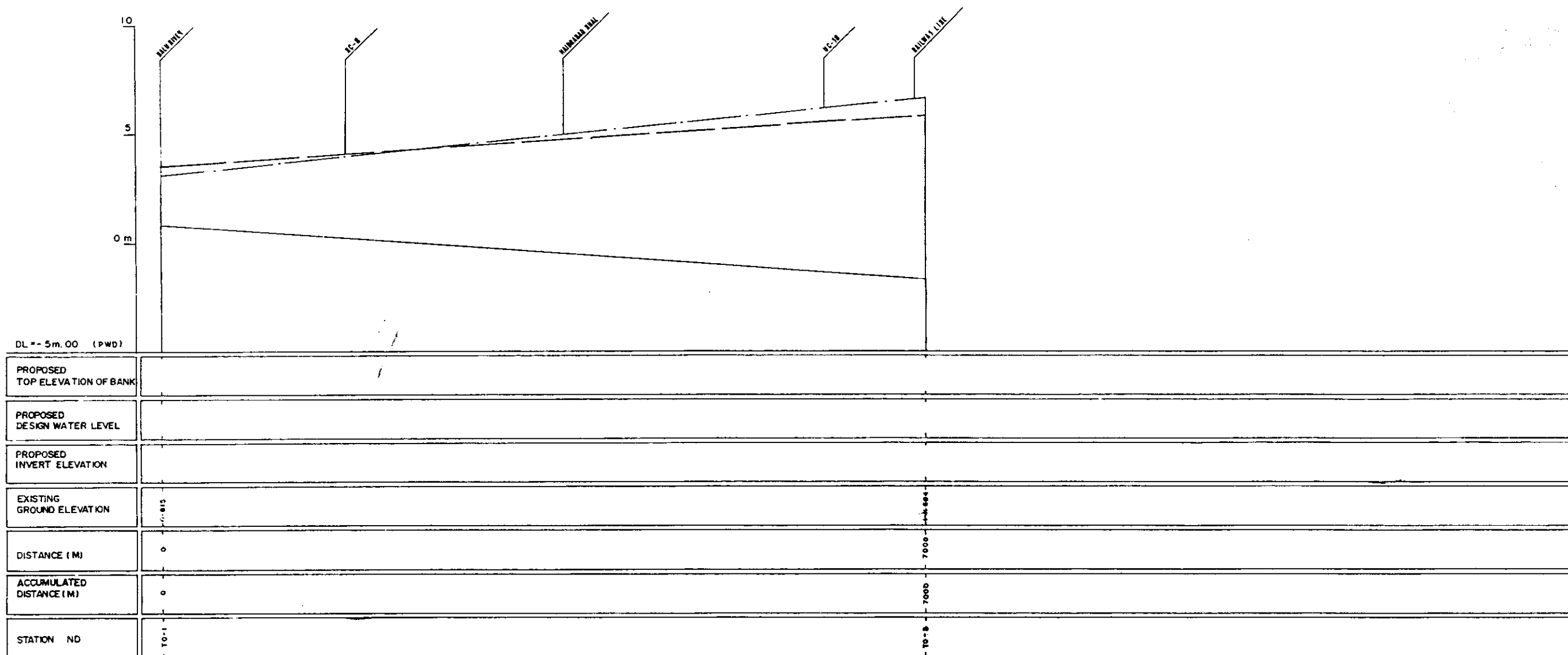
<u>BM.No.</u>	<u>Description of Bench Mark Location.</u>	<u>MSL/RL(M)</u>	<u>Remarks.</u>
<u>LINE - M - LINE FROM BM A14</u>			
M-1	Marked on the plinth level North west corner which is in front of the shop belongs to Subhan at Savar Bus Stand.	9.219	
M-2	Marked on the South west corner of wall of bridge on Barakhor Road which is about 1 km east from Saver Bazar at Rajasan Village.	7.630	
M-3	Marked on the base of Electric pole which is about 1 km east from the BM M/2 and is 10m west from the house of Motiur Rahman Baroga at Rajasan Village.	10.826	
M-4	Marked on the south west corner of bridge which is 100m east from Marhaba Synthetic Mills limited at Rajasan Village.	9.809	
M-5	Marked on the south west corner of front Verandha of Kalyankoir Ali Madrasna.	13.985	
M-6	Marked on the bottom step of stair Probati Samaj Kalyan Samity Building which is near by Arakan High School.	13.718	
M-7	Marked on the bottom step of stair which is front side of Samair Gynhasato Kendra.	13.103	
M-8	Marked on the south west corner of Boundary wall of Mosque which is west side of Barakhor Ferry Ghat.	9.117	
M-9	Marked on the north west corner of culvert which is about and portion of Barakhor village.	3.939	
<u>LINE - N1 : LINE FROM BRD8, BM NIKKARAT.</u>			
N-1/1	Marked on the north east corner of Great Beam of 'Kaly' point (Constructed to cross the river) of Titas Gas Line which is at left bank of Bangshi River.	8.894	
N-1/2	Marked on the floor at the entrance of Partapur Perikalsama Kendra which is near Gungudha Adharsa High School in Probahita Ghat.	8.027	
N-1/3	Marked on the plinth level at middle of west side wall of building belongs to Abdul Latif Mia of Gungudha Village.	8.212	
N-1/4	Marked on the base of pipe which is fixed for the mize for 'Ajam' at the mosque of Sinduria village which is at the left bank of river.	7.688	
N-1/5	Marked on the North west corner of Tube well Platform which is north east side from the house of Abdul Halim at Sinduria village.	7.826	
N-1/6	Marked on the north side of tube-well platform which is west side from the house of Mokandes Bepari at Malinkar Tok Village.	7.171	
N-1/7	Marked on the step of stair of a building belongs to "Dash Poultry Limited" at the village Guntarpur.	7.100	
N-1/8	Marked on the bottom of south wall Fish Wholesale house at Saver Market.	6.657	
<u>LINE - N2 :</u>			
<u>LINE FROM BRD8, BM SAVAR TO BM A-10.</u>			
N2-1	Marked on the floor south-west side to the entrance door in the house of Alauddin Mia at the village Kalyaur.	7.633	
N2-2	Marked on the step of stair of Rest house at Kumanpara which is near by Trimbura of river and is left bank of Bangsi River.	8.331	
N2-3	Marked on the step of stair to the east side entrance of a building belongs to Rajendra at the village Pampura.	7.546	
N2-4	Marked on the floor level, west side of door of Tiptop Laundry at Raj Palbaria Bazar which is at left bank of Bangsi River.	8.059	

<u>BM.No.</u>	<u>Description of Bench Marks Location.</u>	<u>MSL/RL(M)</u>	<u>Remarks.</u>
<u>LINE - P. LINE FROM BM A-18 TO N-1/5.</u>			
P-1	Marked on the step of stair south-east entrance to the Kamoluddin Hall in Jahangirnagar University at Saver.	9.839	
P-2	Marked on the ninth level at south verandha of a house belongs to Hossein Member at the village Girma.	11.471	
P-3	Marked on the step of stair to the entrance of Mirer Tek Mosque.	7.943	
P-4	Marked on the base of Power pole which is east side of Power Sub-station.	7.461	

2.3 RIVER

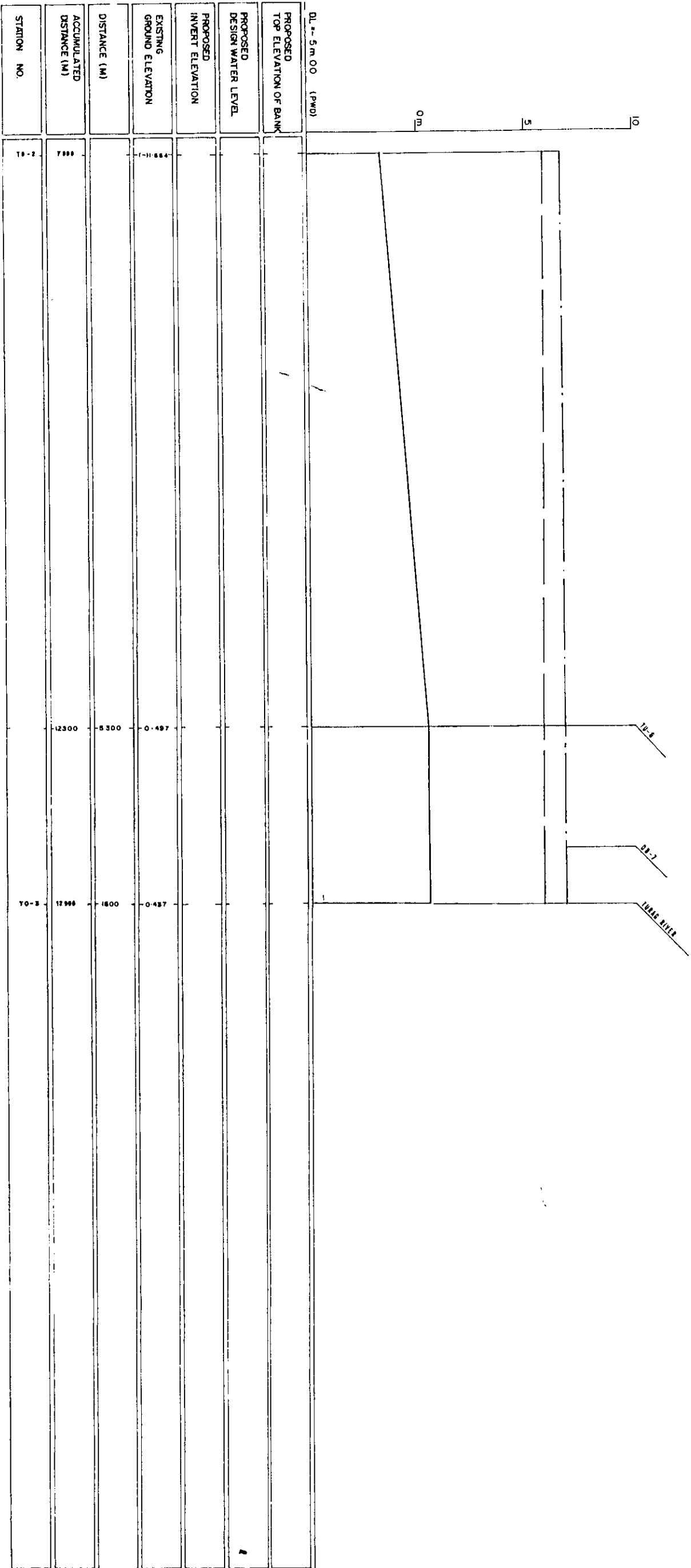
TONGI RIVER
KARANATALI RIVER
BALU RIVER
TURAG RIVER
HYDRABAD RIVER

Note: The drawings were scaled down to 50% from the original drawings.

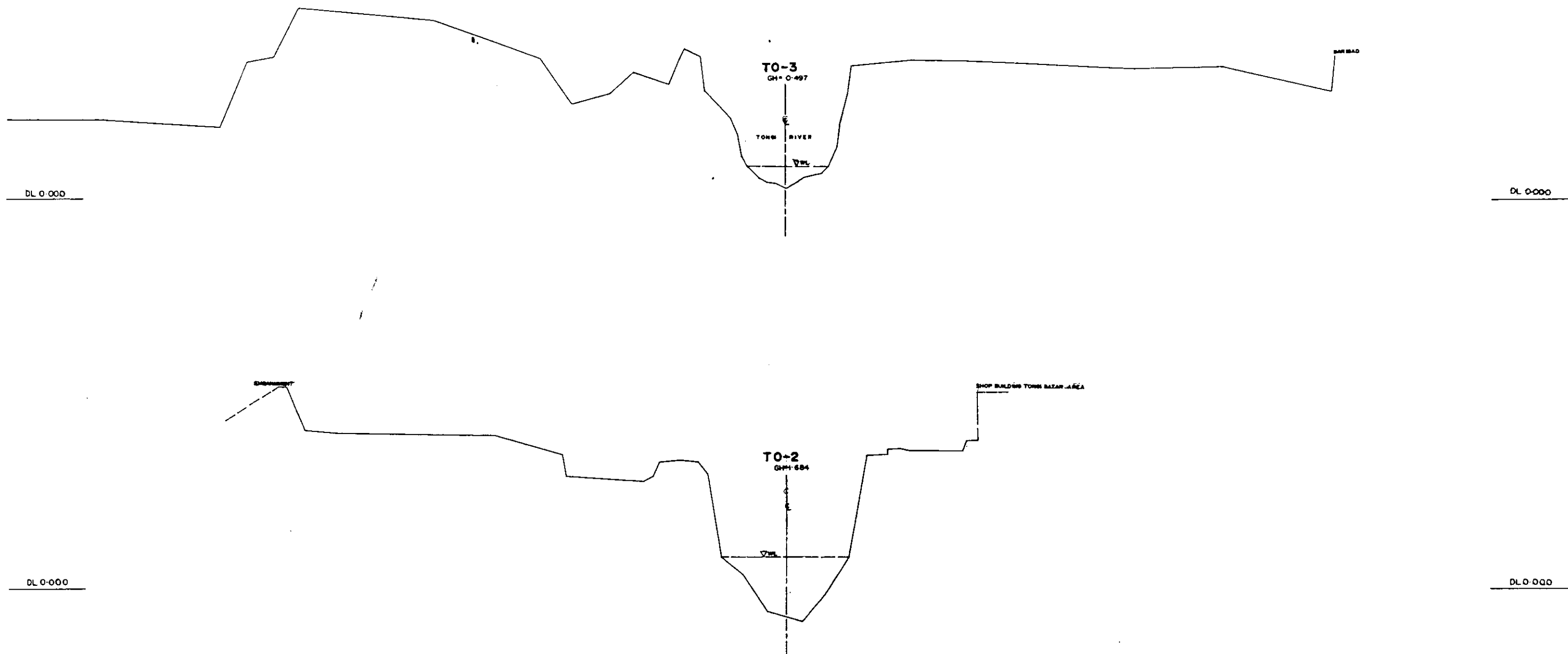


LEGEND
 EXISTING LEFT GROUND LINE - - - - -
 EXISTING RIGHT GROUND LINE - - - - -
 EXISTING BOTTOM LINE - - - - -
 *LINE FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF RIVER			
TONGI RIVER		SCALE	H:V: 20000
DWG NO	TOR L I	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

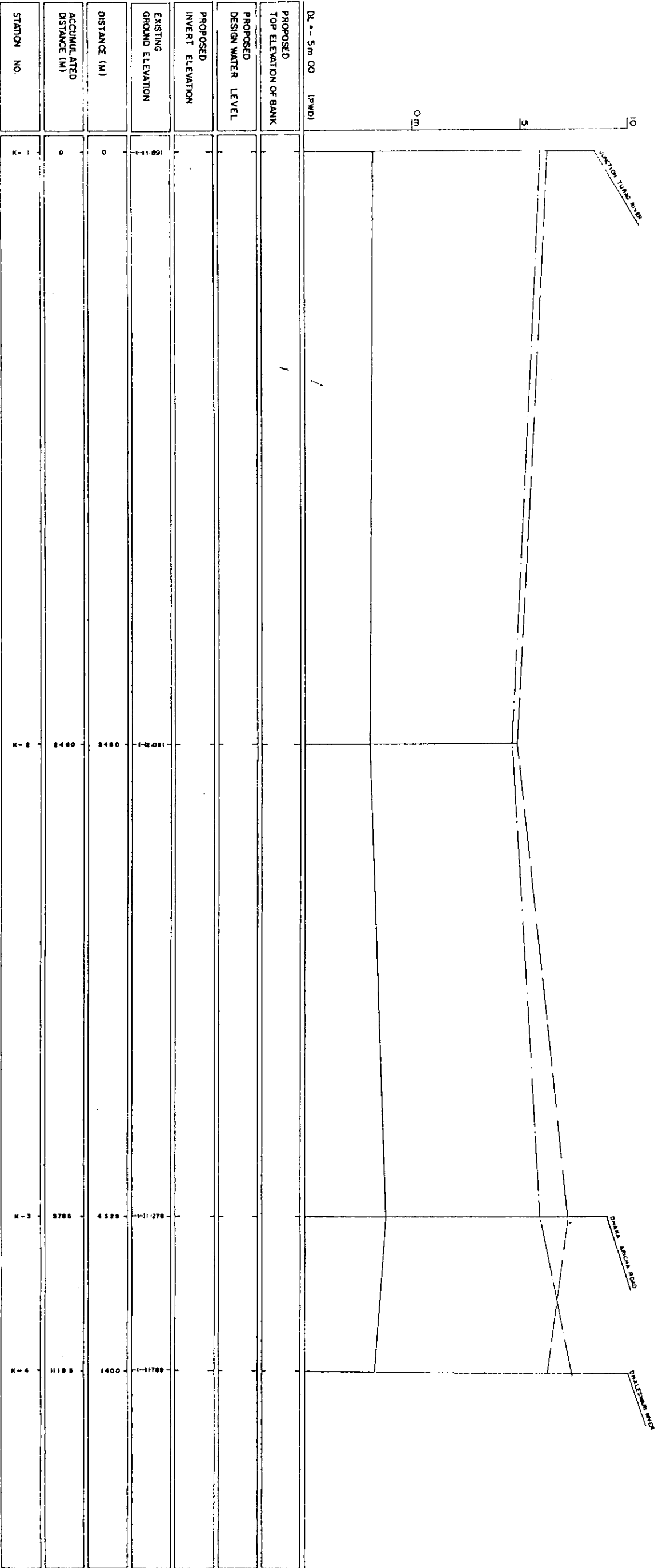


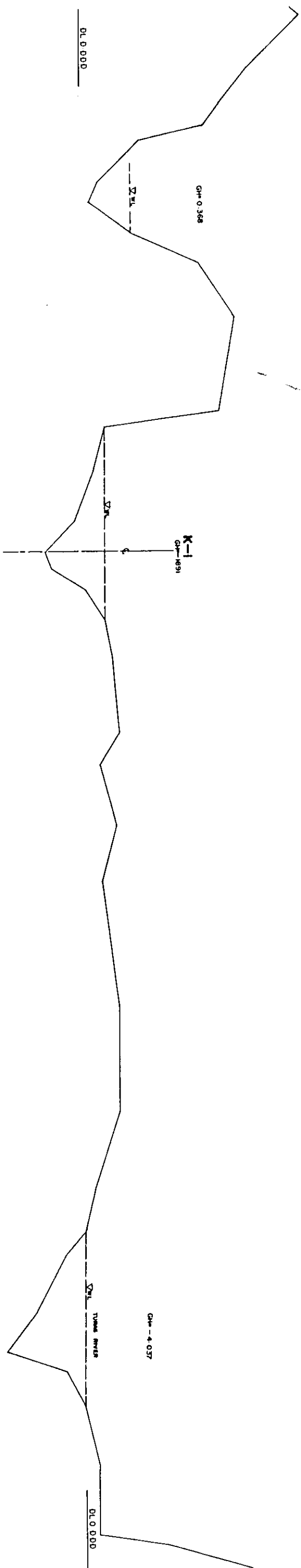
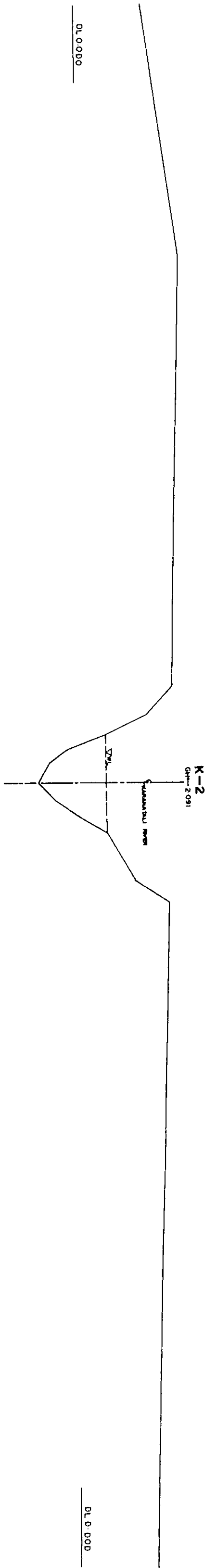
LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
*L/R FACING TO UP STREAM



L/R FROM TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A		
DHAKA METROPOLITAN AREA CROSS SECTION OF RIVER		
TONGI RIVER	SCALE	H=1:1000 V=1:500
DWG NO	TOR C1	DATE March 1994
JAPAN INTERNATIONAL COOPERATION AGENCY		

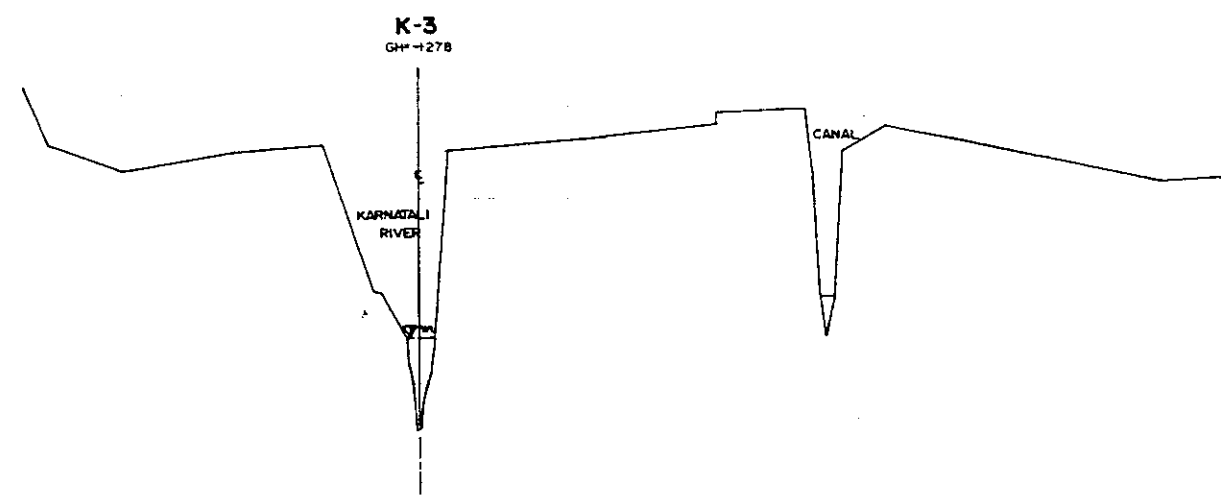




*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
KUMBHANTA, TURAG RIVER		SCALE	H=1:1000 V=1:100
DWG NO.	K.R.C.1	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

02

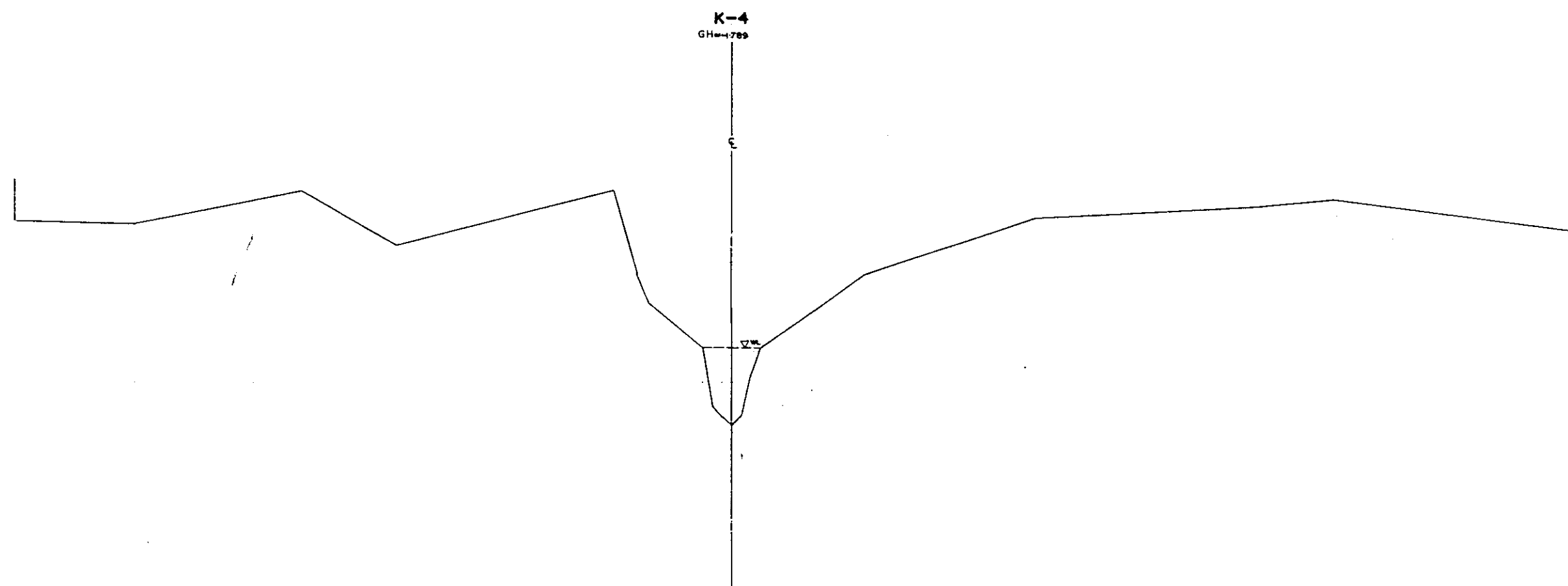


DL 0.00

OL 0.00

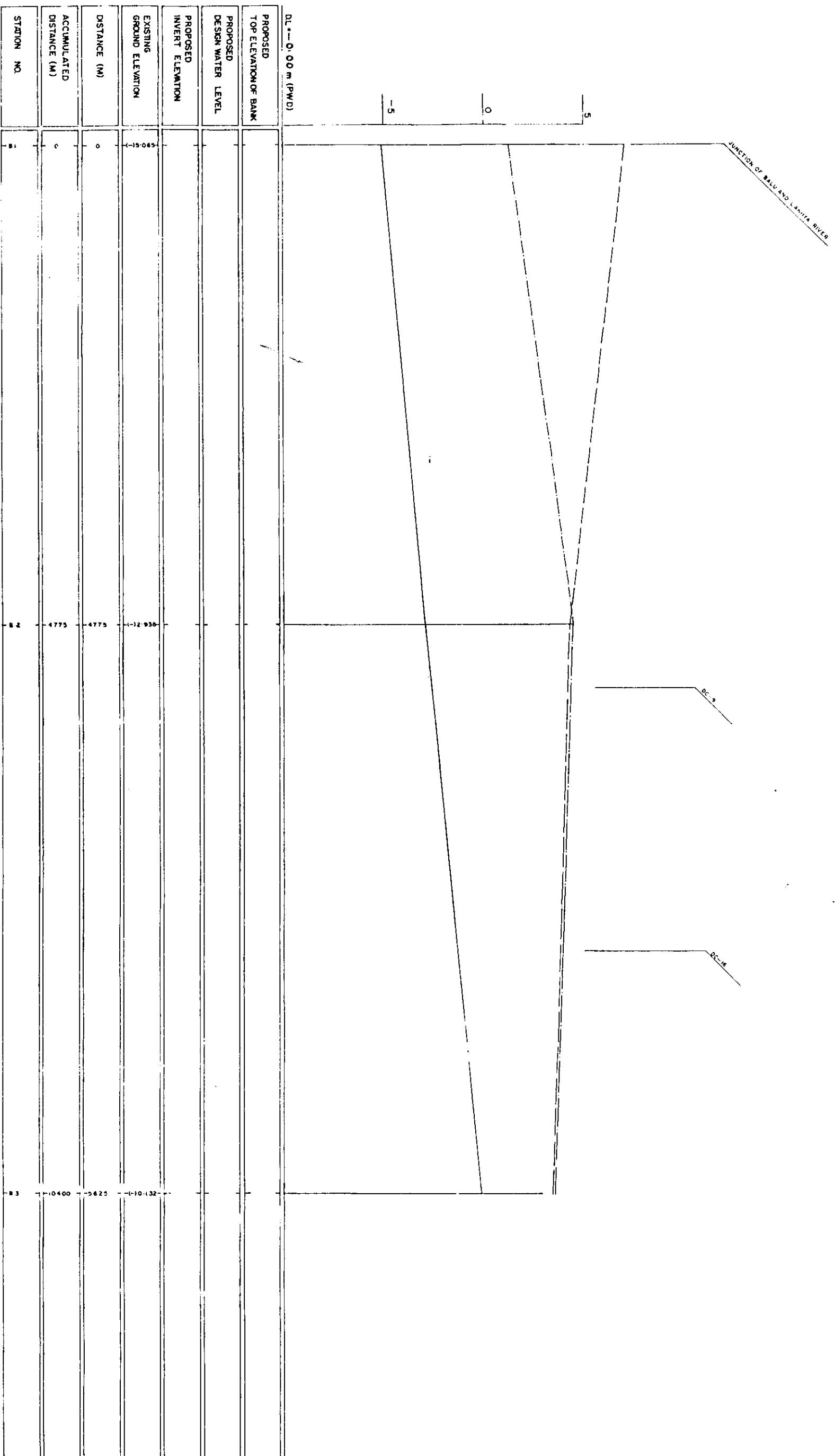
•L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF RIVER			
KARNATALI RIVER	SCALE	HYDROLOGICAL V. 11.100	
DWG NO	KR C2	DATE	Mar 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

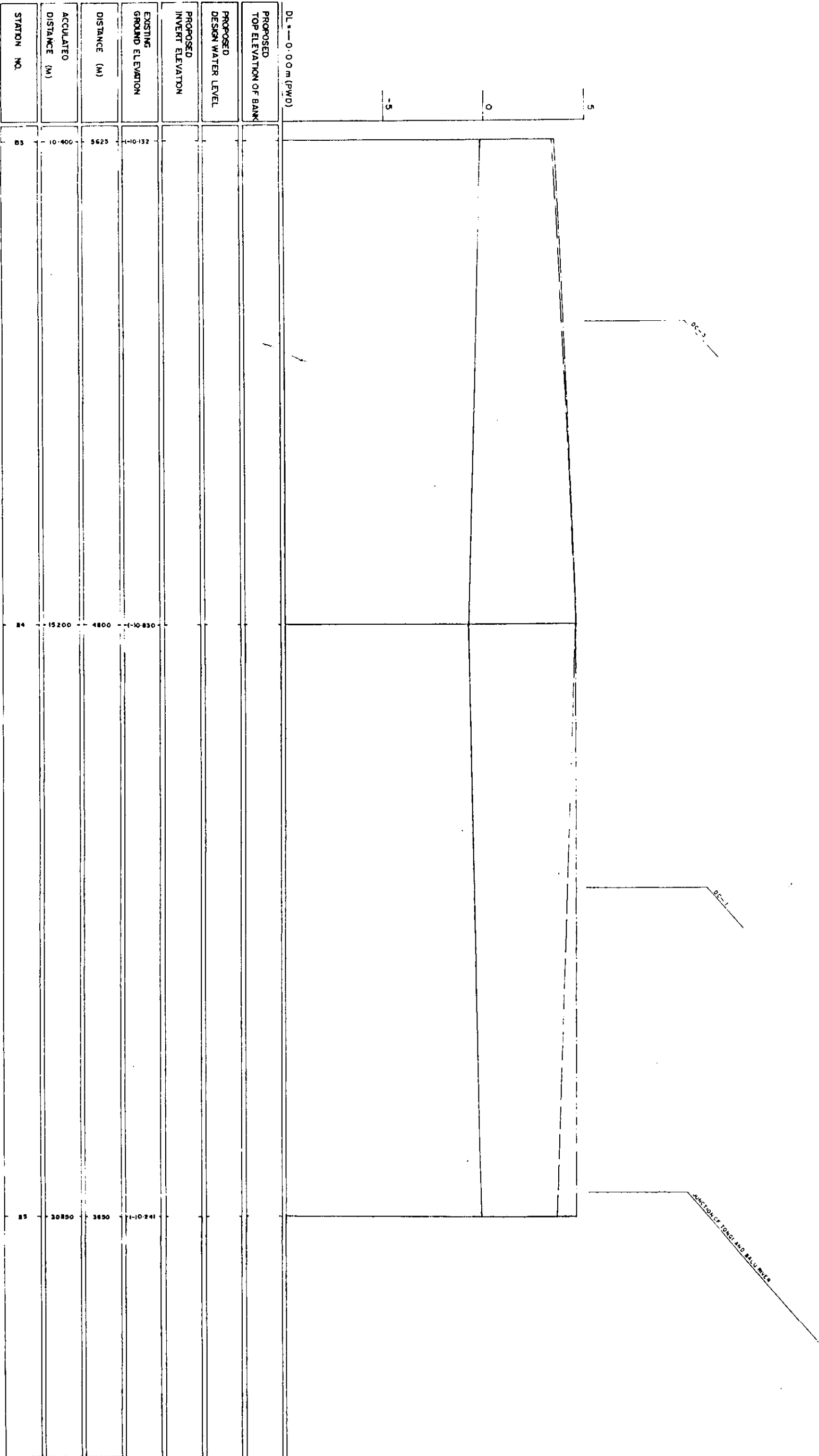


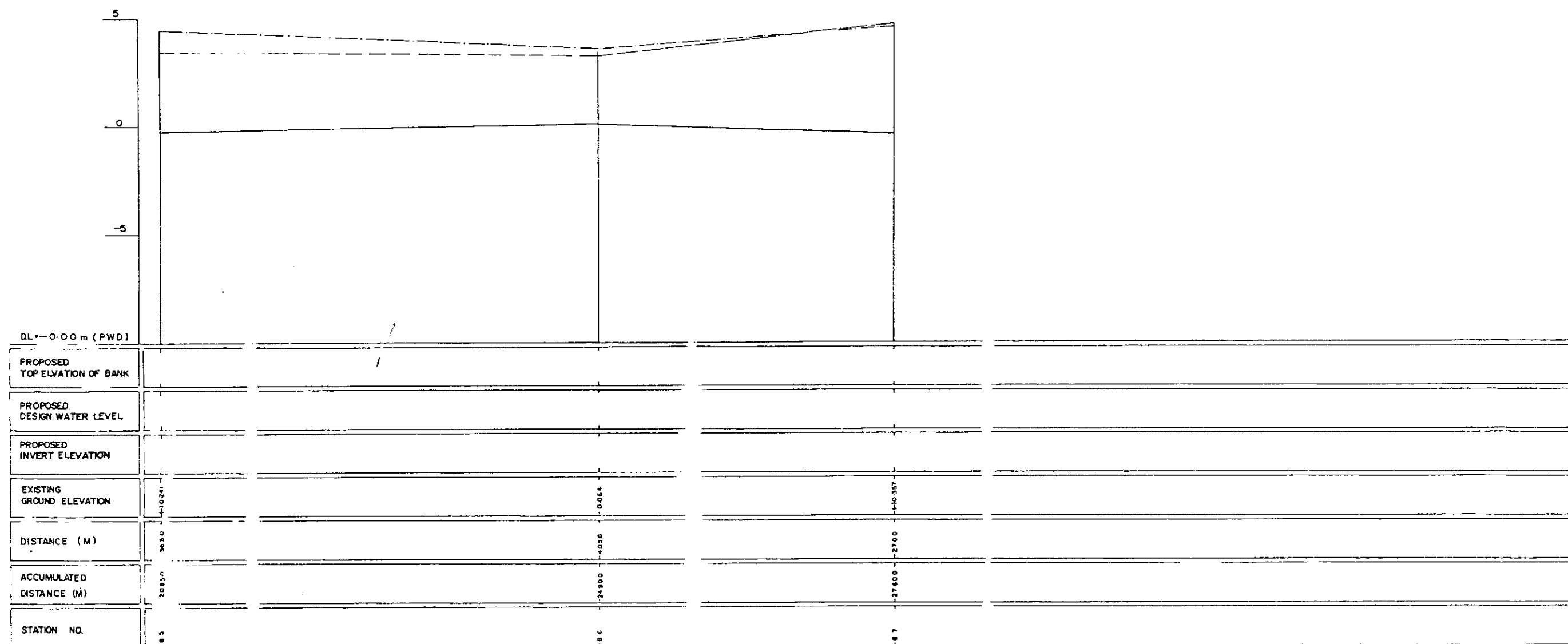
•L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF RIVER			
KARANATALI RIVER		SCALE	1:1000 1:1000
DWG NO	KR C3	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



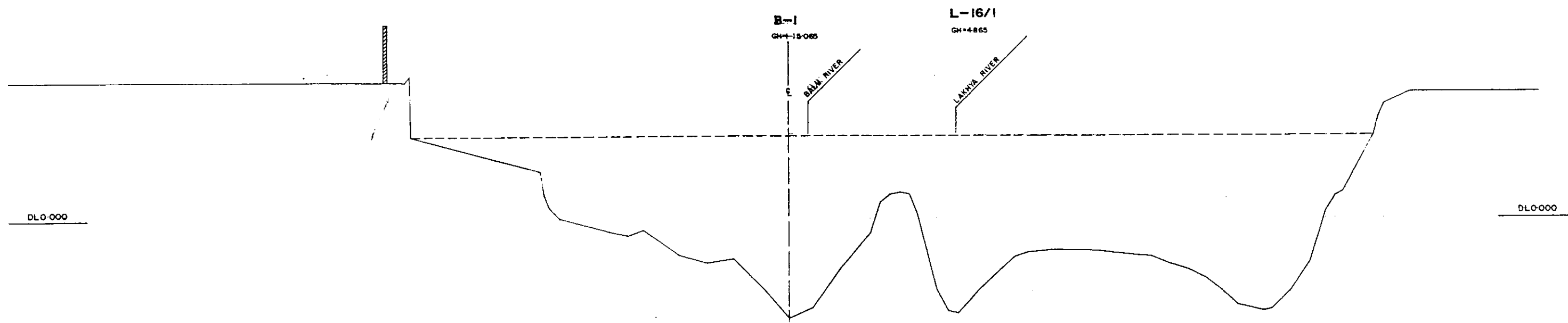
LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
#L/R FAONG TO UP STREAM





LEGEND
 EXISTING L.F. GROUND LINE - - - - -
 EXISTING R.F. GROUND LINE - - - - -
 EXISTING BOTTOM LINE - - - - -
 * L R FACING TO UP STREAM

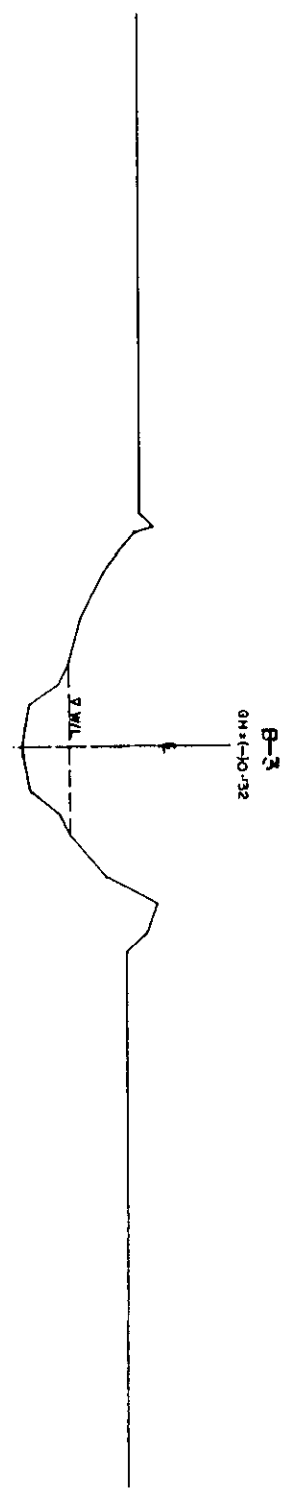
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF RIVER			
BALU RIVER	SCALE	H : 20000 V : 1:100	
DWGNO BR L3	DATE	March 1994	
JAPAN INTERNATIONAL COOPERATION AGENCY			



* L/R FACING TO UP STREAM

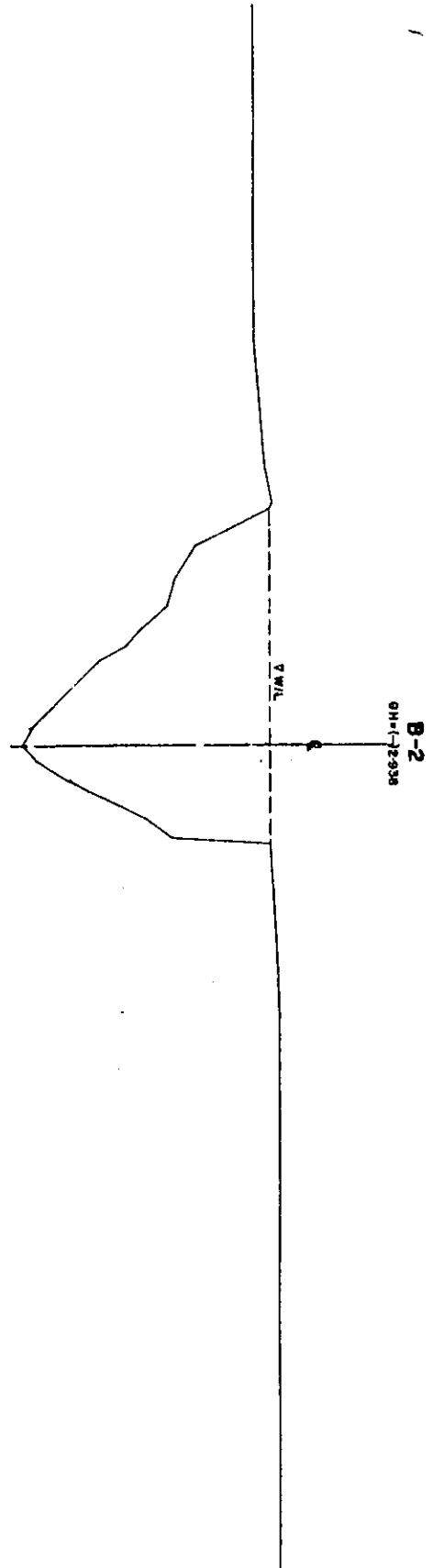
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
BALU & LAHIA RIVER	SCALE	1:10000	1:100
DWG. NO.	BR C.I.	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

DL 0.00



DL 0.000

DL 0.00



DL 0.000

* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
STUDY IN DHAKA METROPOLITAN AREA			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
BALU RIVER	SCALE	1:1000	
DWG NO. BR C2	DATE	March	1994
JAPAN INTERNATIONAL COOPERATION AGENCY			

62

B-5

GH: (-) 0.241

3

DL 0.000

DL 0.000

B-4

GH: (-) 0.830

3

DL 0.000

DL 0.000

* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
BALU & TONG RIVER		SCALE	m=1:1000 / v=1:100
DWG. NO.	BR C3	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

80

B-7
GM+10337

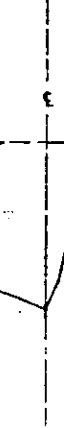


▽m

DL 0+000

DL 0+000

B-6
GM+0084



▽m

DL 0+000

DL 0+000

* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT		
(STUDY IN DHAKA METROPOLITAN AREA)		
BANGLADESH FLOOD ACTION PLAN NO.8A		
DHAKA METROPOLITAN AREA		
CROSS SECTION OF RIVER		
SALU RIVER	SCALE	1:1000 1:100
DWG. NO. BR C4	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY		

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF RIVER			
TURAG RIVER		SCALE	1 : 10,000
DWGNO	TR L1	DATE	MARCH 99
JAPAN INTERNATIONAL COOPERATION AGENCY			

DL = 10 + 000 m (PWD)	
PROPOSED TOP ELEVATION OF BANK	
PROPOSED DESIGN WATER LEVEL	
PROPOSED INVERT ELEVATION	
EXISTING GROUND ELEVATION	
DISTANCE (M)	
ACCUMULATED DISTANCE (M)	
STATION NO.	

DB-1
JUNCTION OF YONGI AND TURAG RIVER

LEGEND
EXISTING LEFTGROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TOWARD STEAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF RIVER			
TURAG RIVER	SCALE	1:2000	
DWG NO	TR L 2	March 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			

DL = -10.00 m. (PWD)		5
		0
		-5
PROPOSED TOP ELEVATION OF BANK		
PROPOSED DESIGN WATER LEVEL		
PROPOSED INVERT ELEVATION		
EXISTING GROUND ELEVATION		
DISTANCE (M)		
ACCUMULATED DISTANCE (M)		
STATION NO.		

LEGEND

EXISTING LEFT GROUND LINE - - - - -

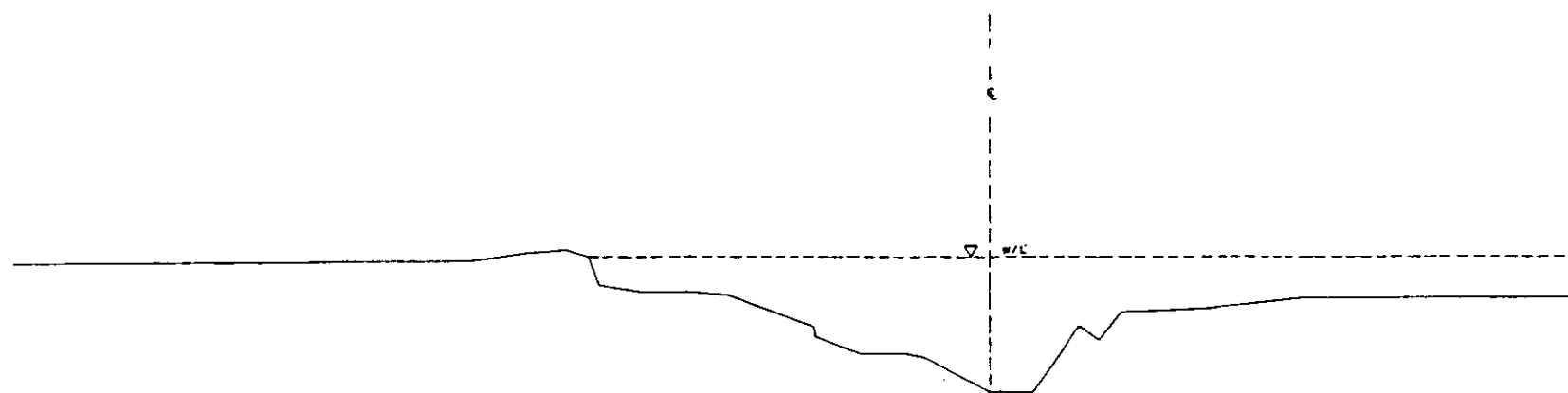
EXISTING RIGHT GROUND LINE - - - - -

EXISTING BOTTOM LINE - - - - -

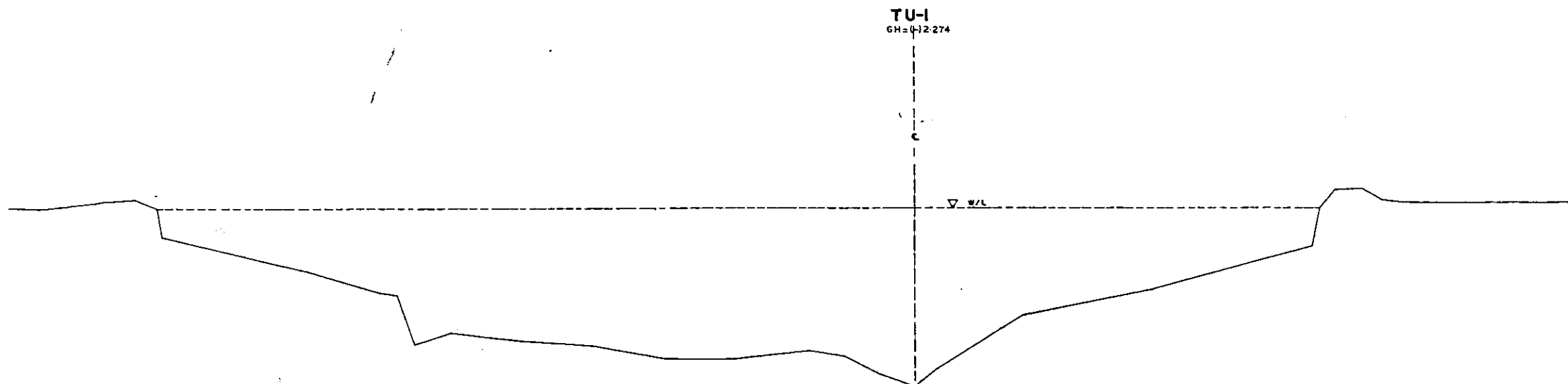
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF RIVER			
TURAG RIVER		SCALE	N 1:20000
DWG NO.	TR L. 3	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

TU-6
GH = 0.808

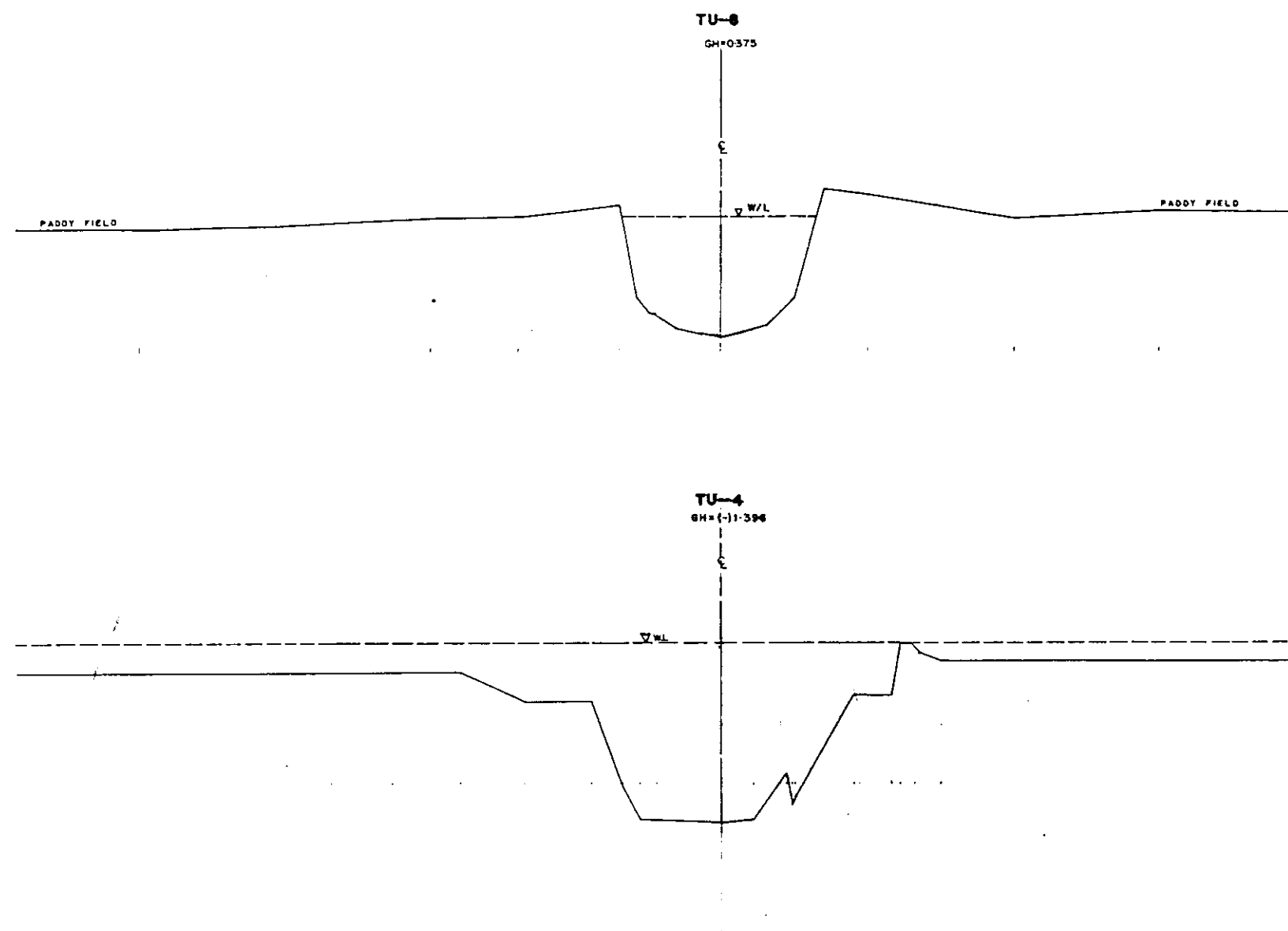


TU-1
GH = 12.274



L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
TURAG & TONGI RIVER		SCALE	H=1:1000 V=1:100
DWG. NO.	TR C 1	DATE	March 1994
JAPAN INTERNATIONAL COOPERATION AGENCY			

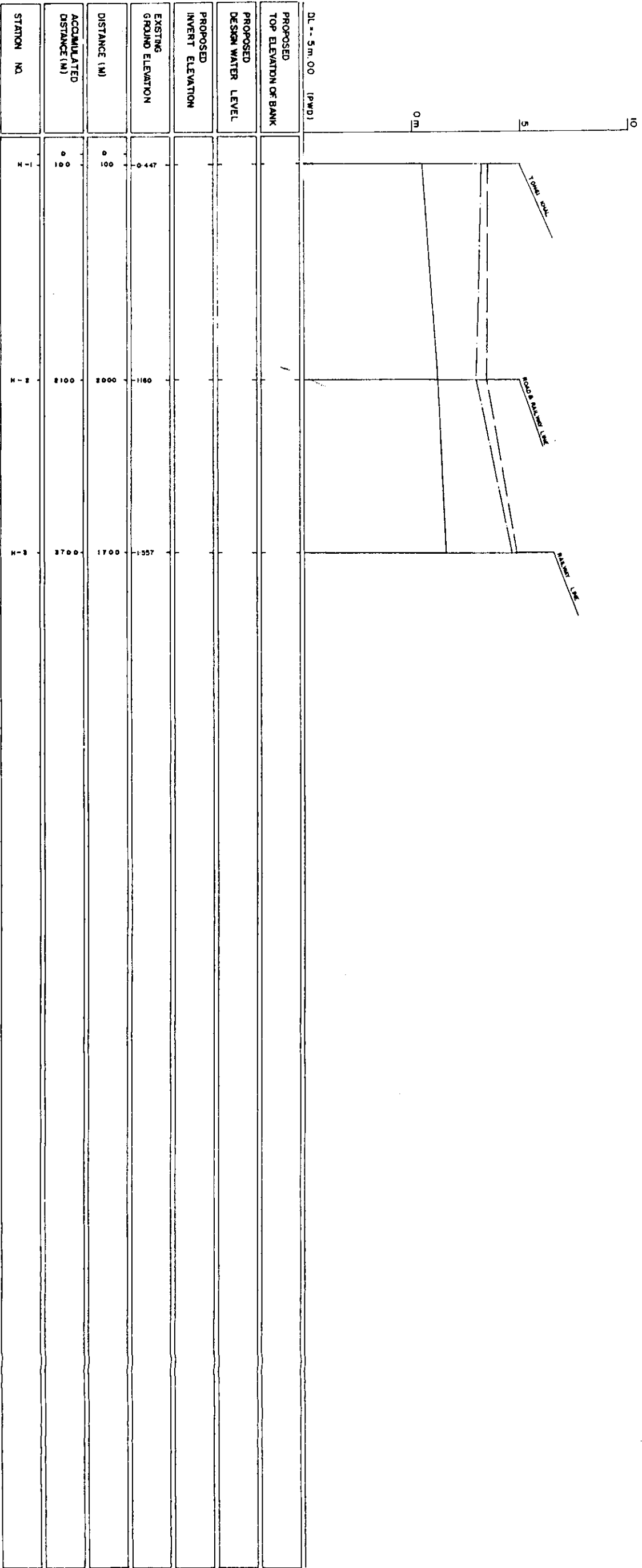


DL0000

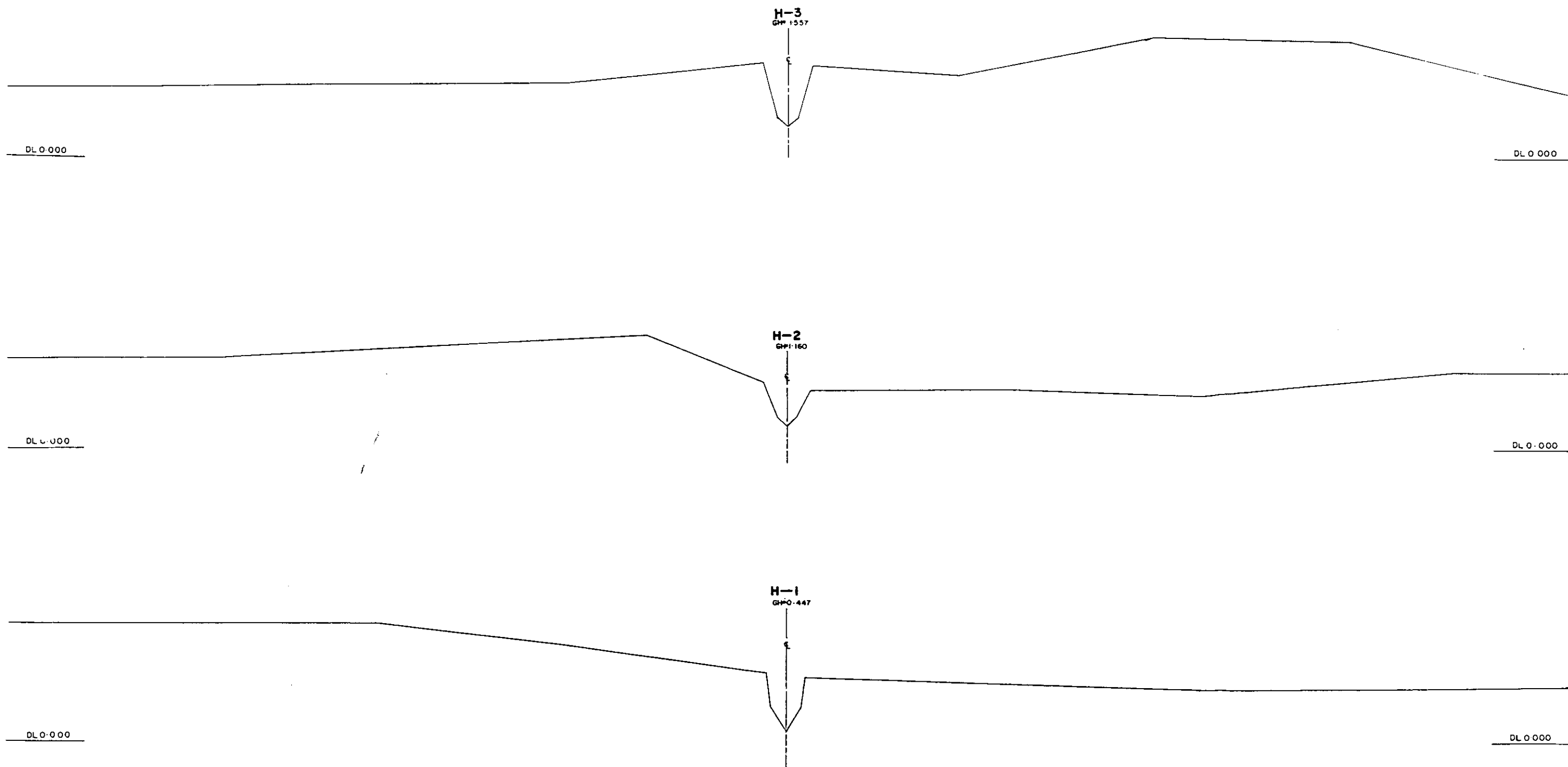
DL0000

* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
TURAG RIVER		SCALE	H=1:100 V=1:100
DWG. NO.	TR C2	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
A/R FACING TO UP STREAM



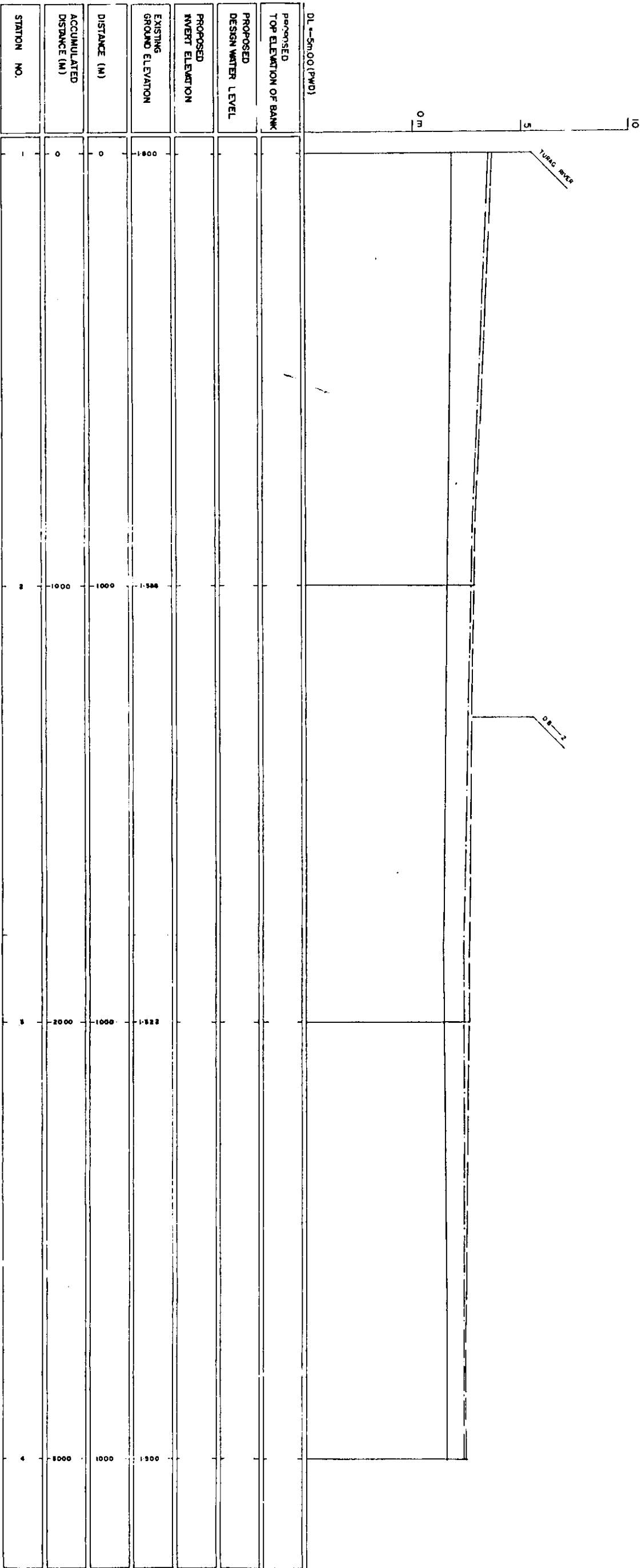
▲L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF RIVER			
HYDRABAD KHAL		SCALE	H=1:1000 V=1:100
DWG NO	HR CI	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

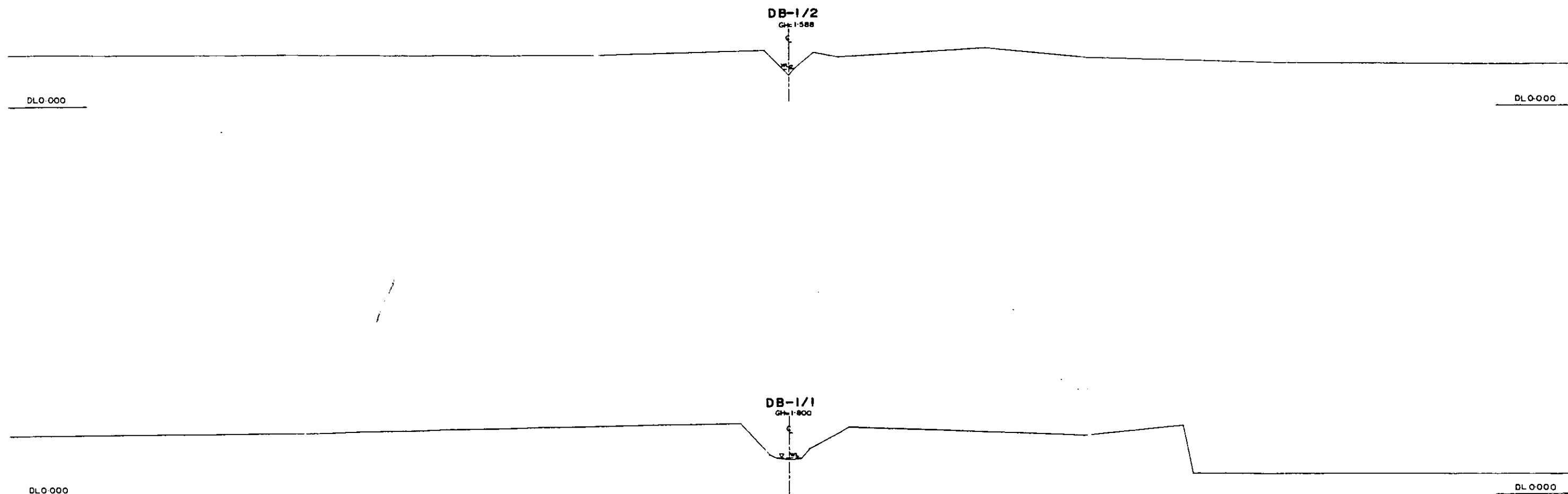
2.4 CANALS (KHALS)

GREATER DHAKA (DB-1~DB-18)
NARAYANGANJ (N-1~N-21)
KERANIGANJ (K-1~K-9)

Note: The drawings were scaled down to 50% from the original drawings.

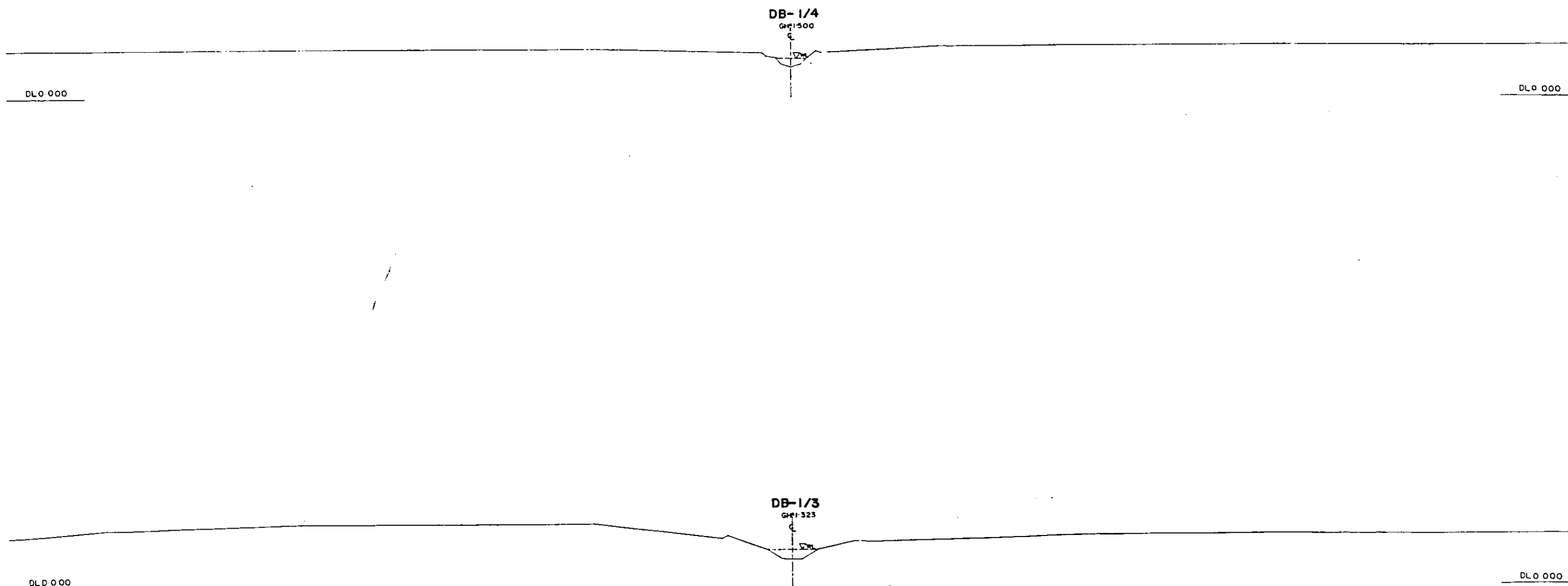


20



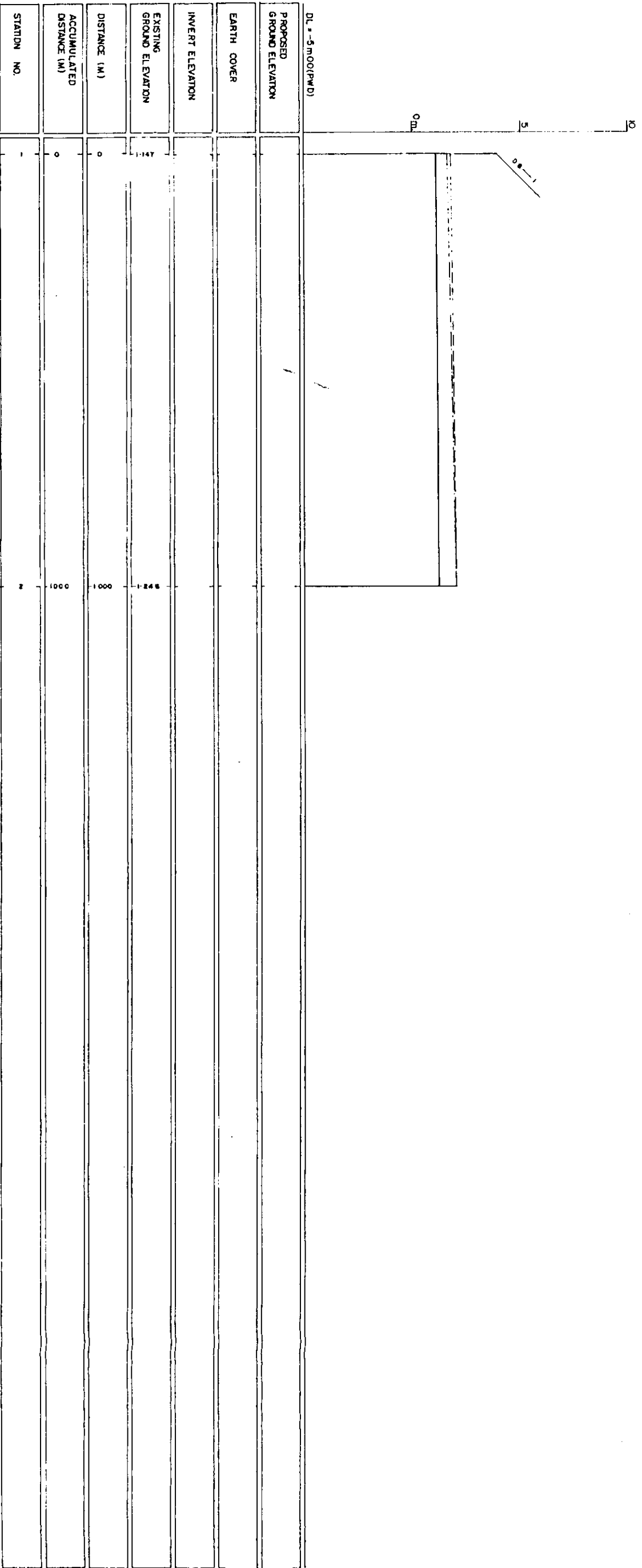
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA I) BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DB-1		SCALE	NH 200 VH 100
DWG NO	KG C 1	DATE	March 1994
JAPAN INTERNATIONAL COOPERATION AGENCY			



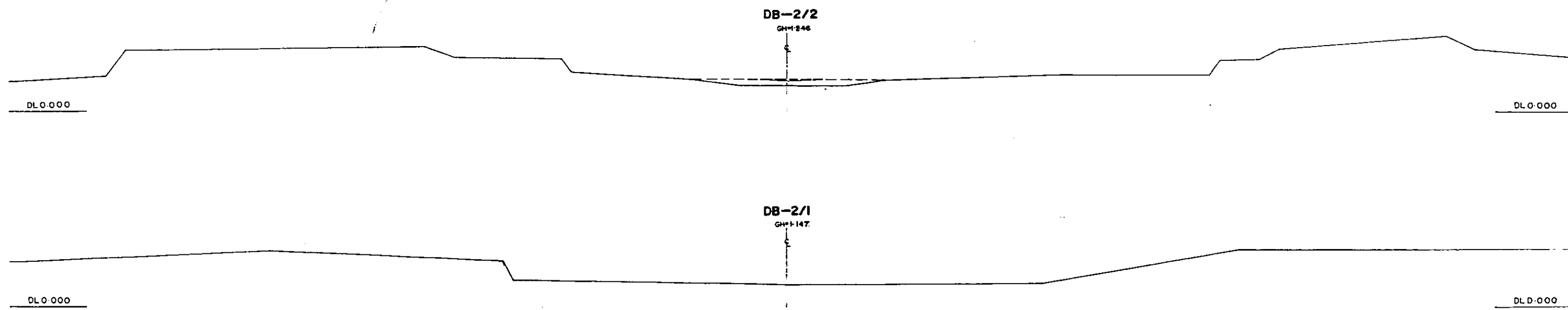
L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-1	SCALE	H.M. 1:200 V.T. 1:100	
OWS NO	KG C2	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



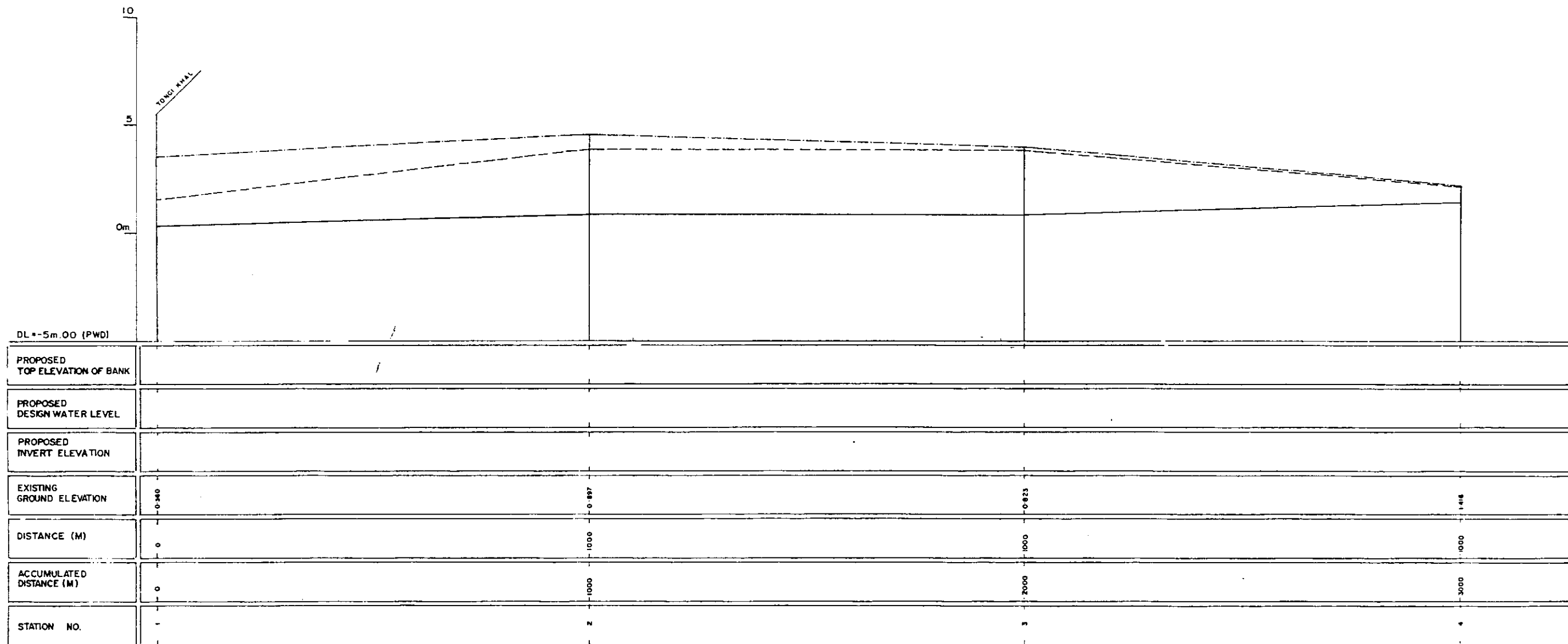
LEGEND
EXISTING LEFTGROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
DL/R FACING TO UP STREAM

46



+L/R FACING TO UP STREAM

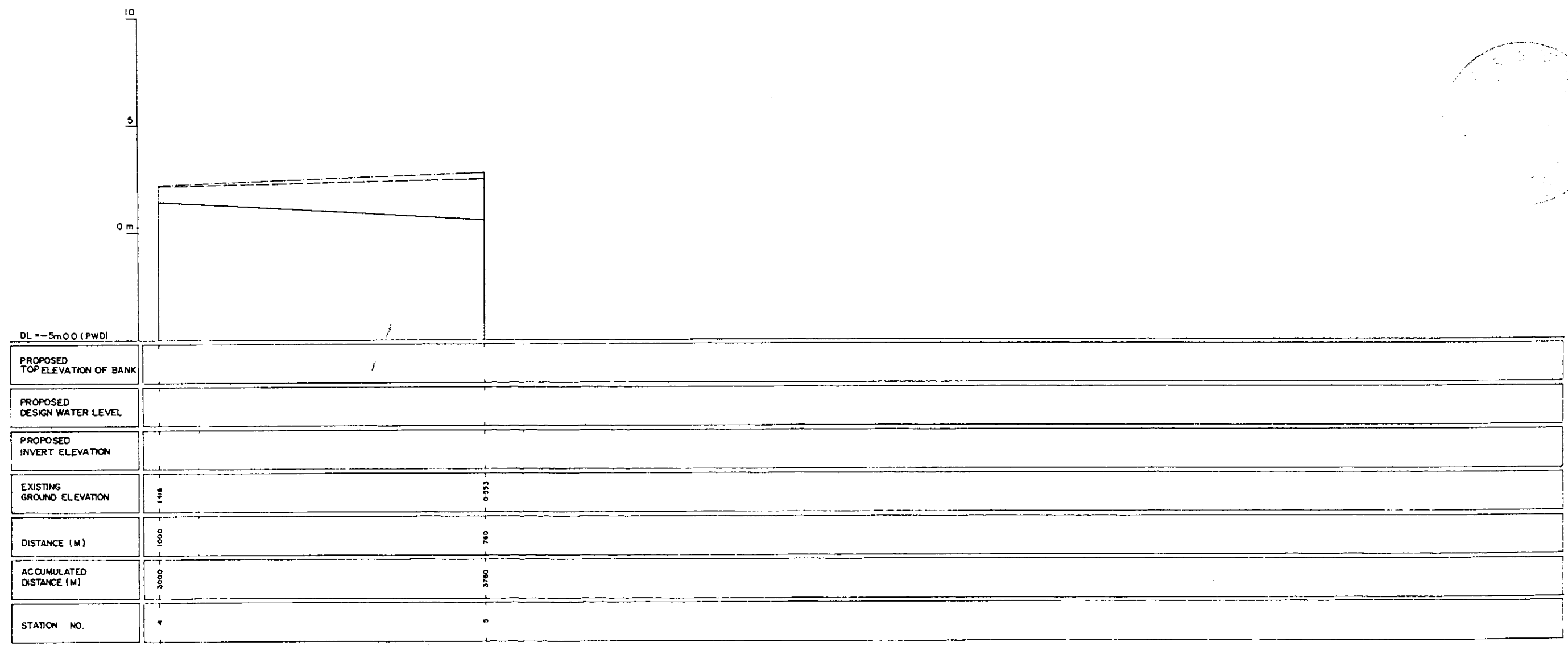
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-2		SCALE	NH 200 VH 100
DWG NO.	KG.C-3	DATE	March 1994
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
 EXISTING LEFT GROUND LINE - - - - -
 EXISTING RIGHT GROUND LINE - - - - -
 EXISTING BOTTOM LINE - - - - -
 L/R - FACING TO UP STREAM
 *

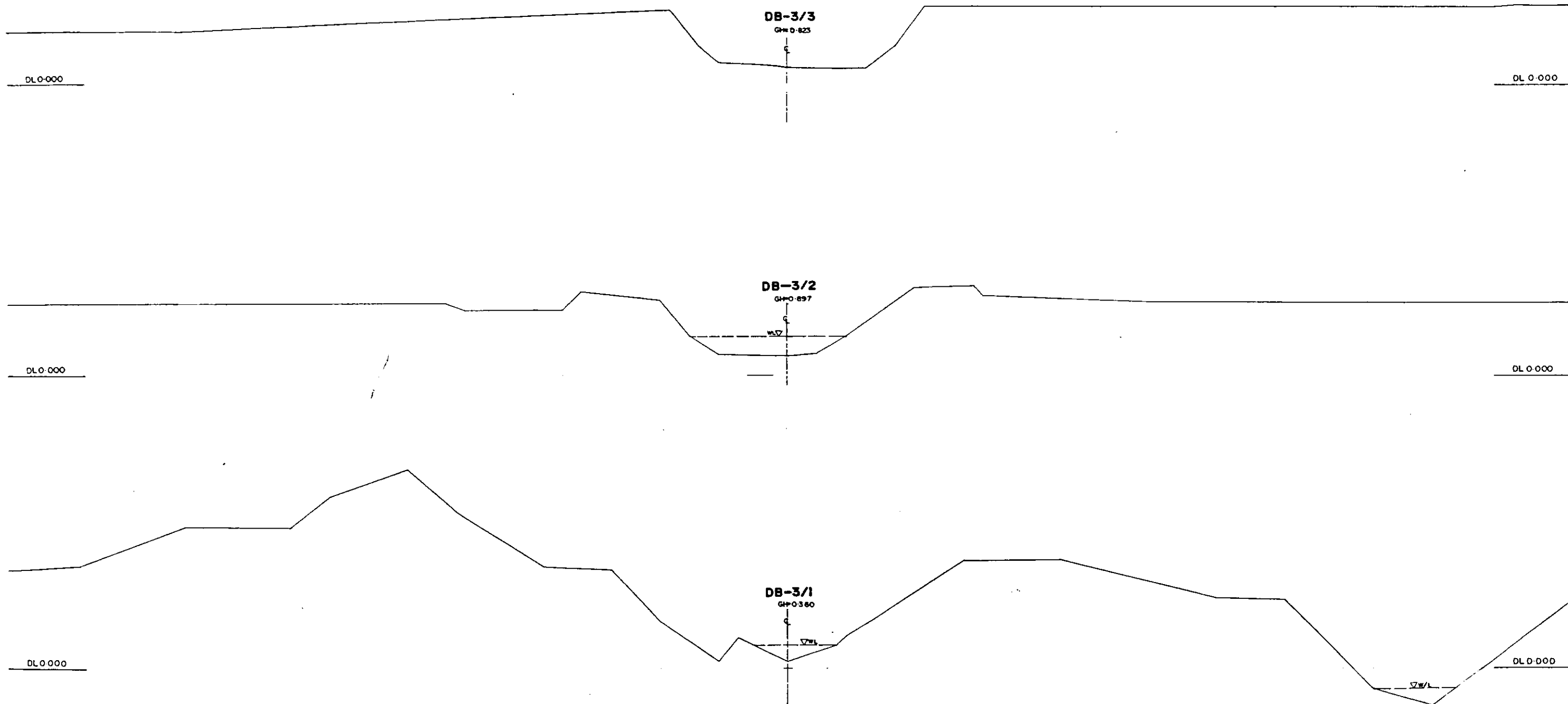
GREATER DHAKA PROTECTION PROJECT			
STUDY IN DHAKA METROPOLITAN AREA			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
DB-3		SCALE	1:1000
DWGNO	KG L3	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

CC



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
STUDY IN DHAKA METROPOLITAN AREA I			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
DB-3		SCALE	H 1:5000 V 1:100
DWG. NO.	KG	L 4	DATE March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-3		SCALE	H=1:200 V=1:100
CHS NO	MS.C.4	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

29

DB-3/5
GH-0-053

C

DL 0+000

DL 0+000

DB-3/4
GH-0-416

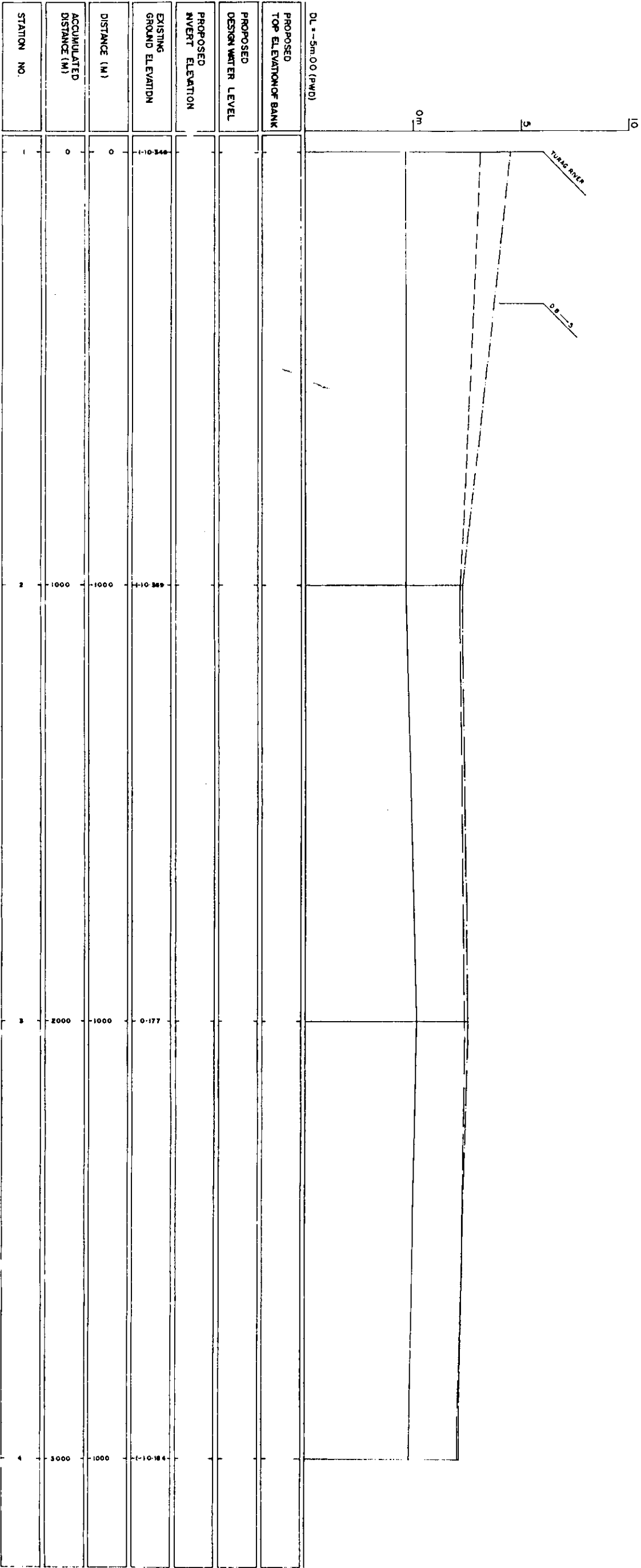
C

DL 0+000

DL 0+000

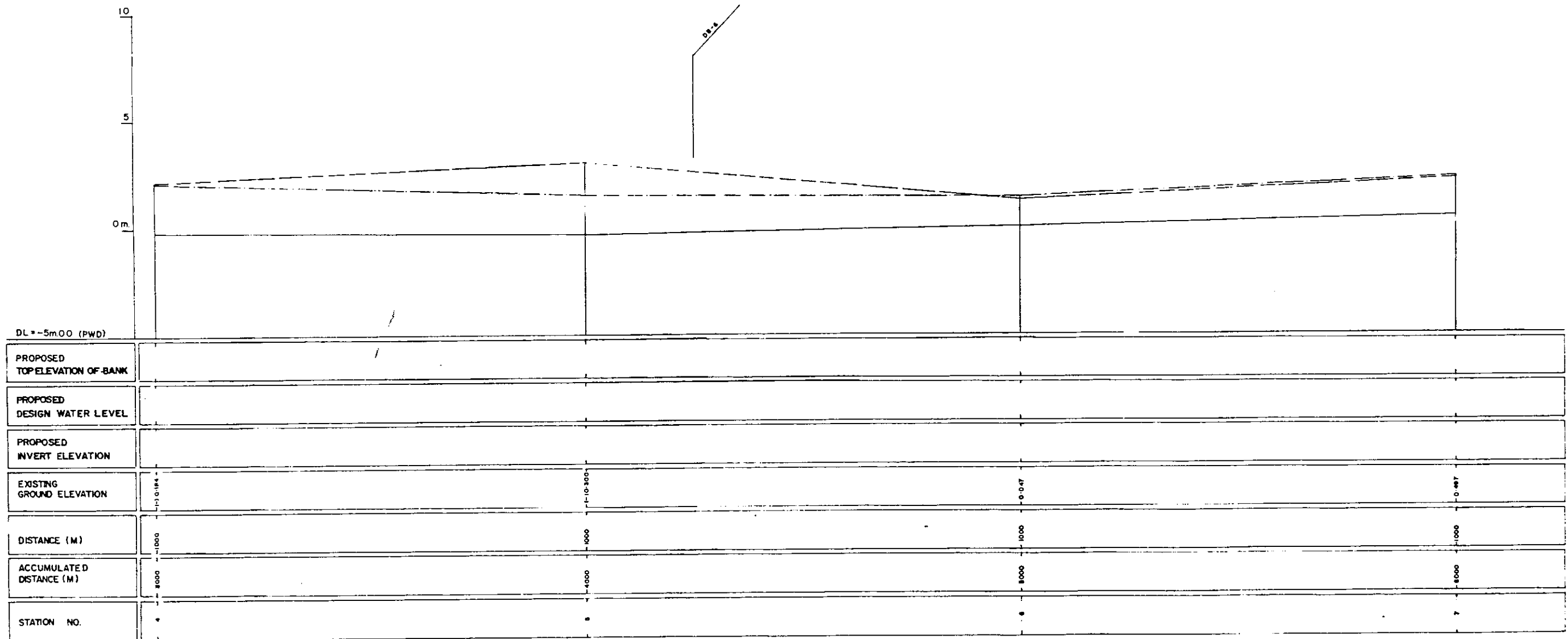
* L/R - FACING TO UP STREAM.

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-3		SCALE	H+1:200 V+1:100
Drawn NO	KG C 5	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



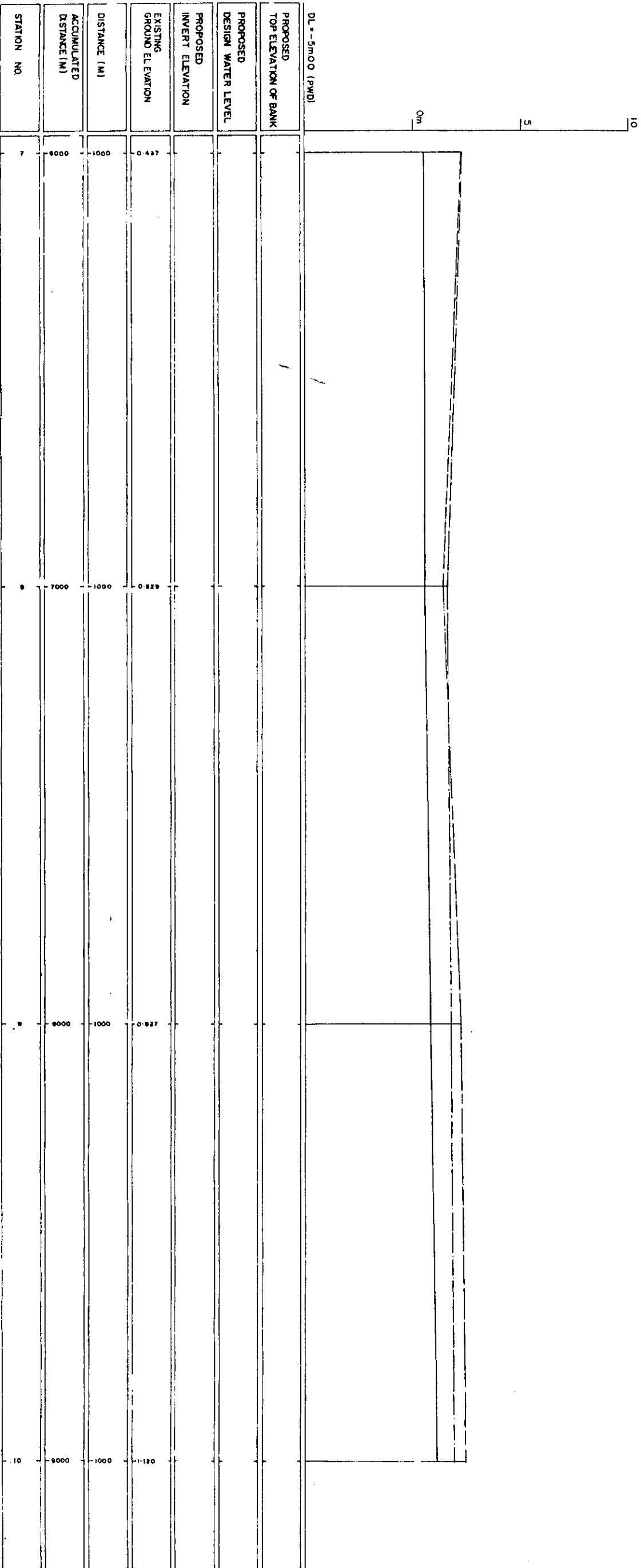
LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE -.-
* L/R FACING TO UP STREAM

92

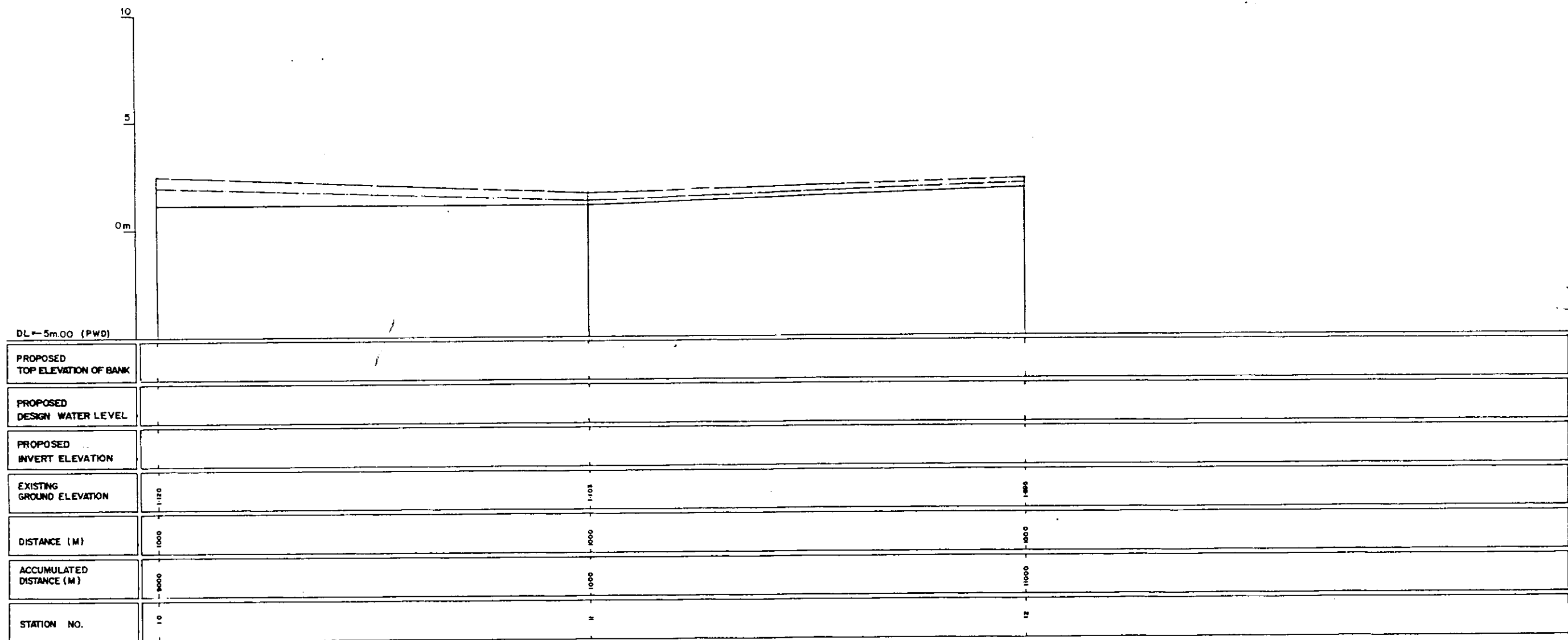


LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DB-4		SCALE	H:V 5000 V:1 100
DWG NO	KG LG	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



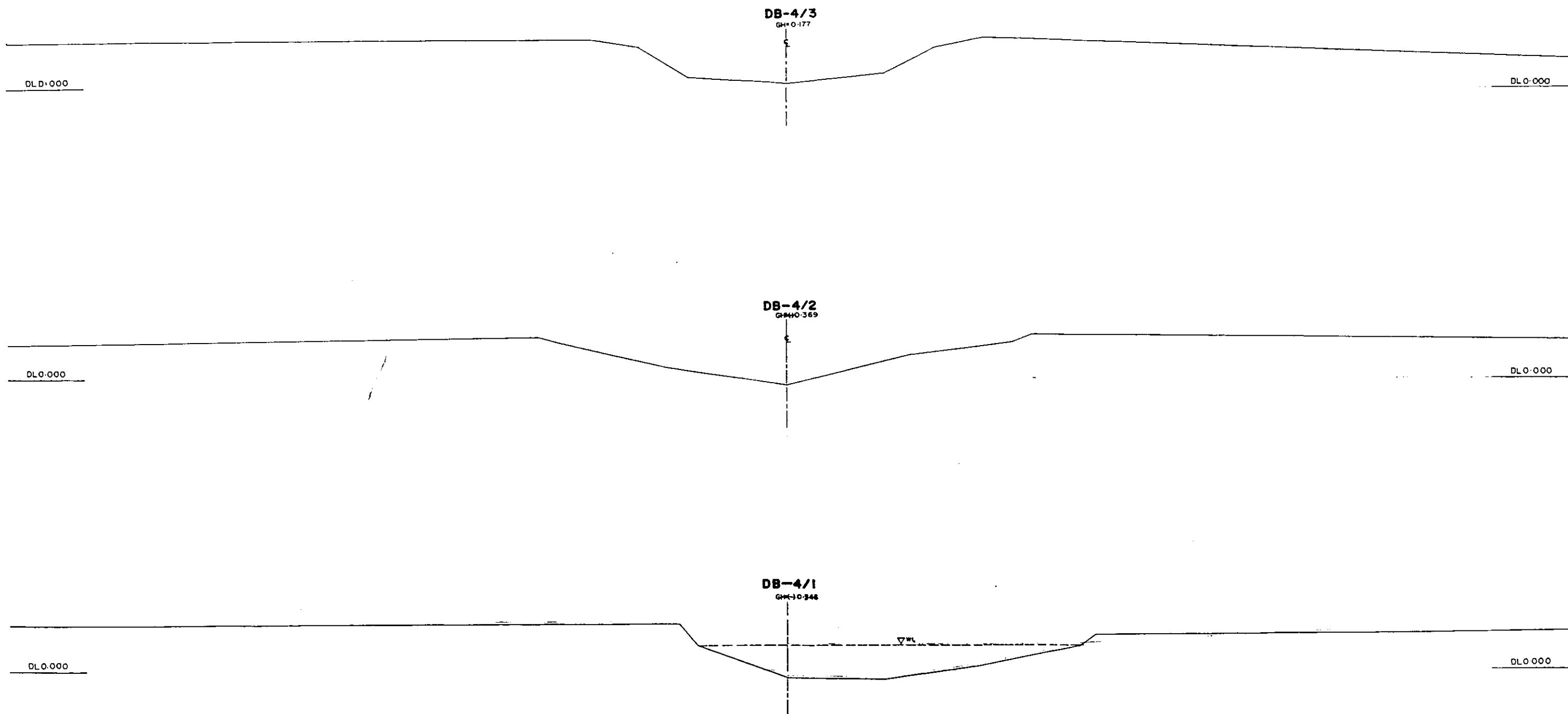
LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
P/L/R FACING TO UP STREAM



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DB-4		SCALE	1:5000 V=1:100
DWG NO	KG L 8	DATE	March '99
JAPAN INTERNATIONAL COOPERATION AGENCY			

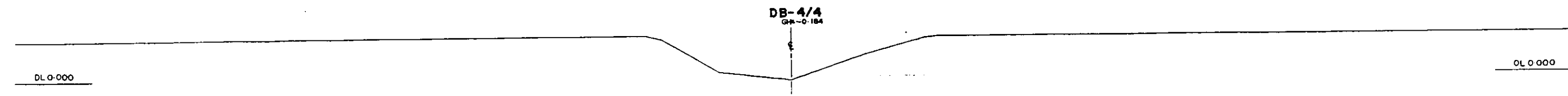
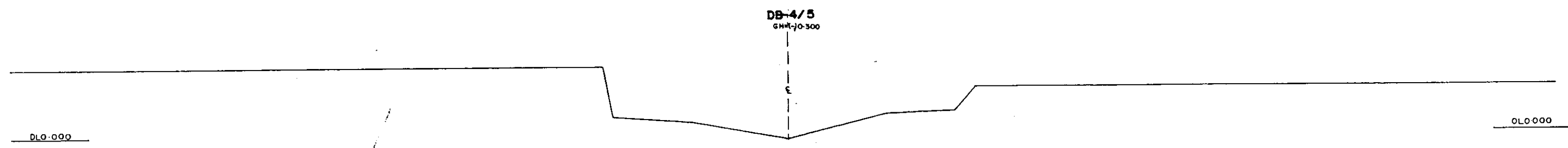
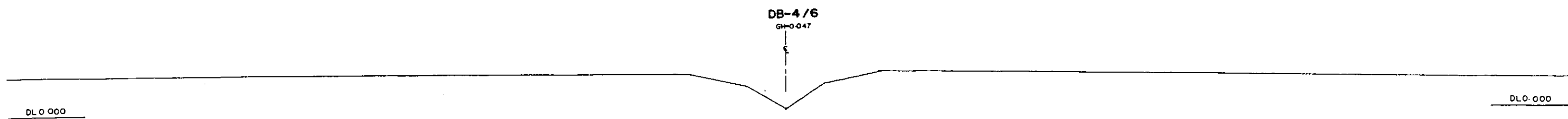
42



#1/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-4		SCALE	N=1:200 V=1:100
DWG NO	KG C 6	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

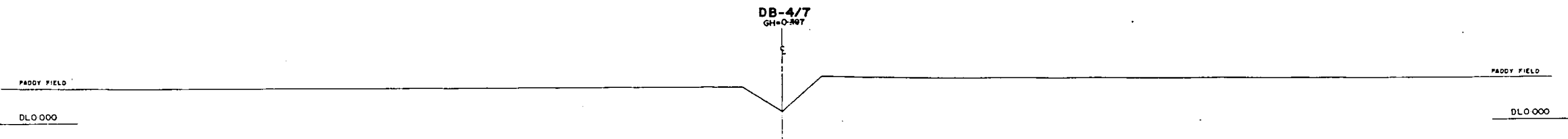
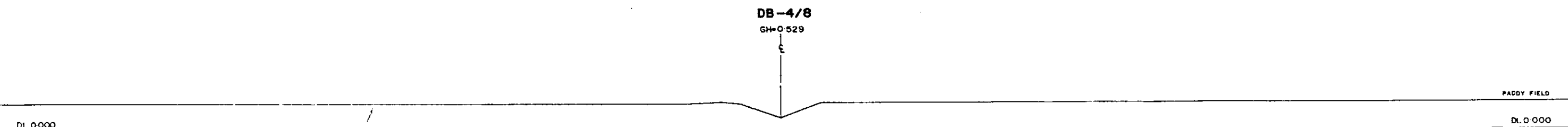
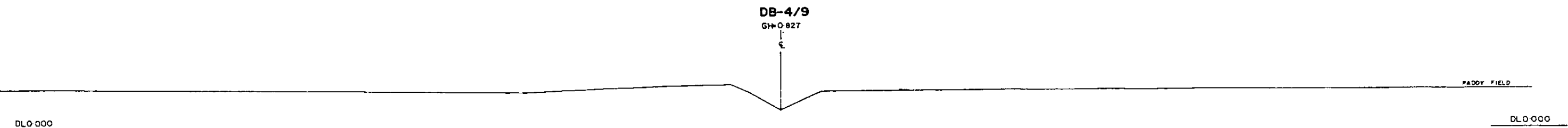
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AL/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA I)			
BANGLADESH FLOOD ACTION PLAN NO.BA			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-4		SCALE	H=1:200 V=1:100
DWG NO	KG C7	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

28



=L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-4		SCALE	H=1:200 V=1:100
DWG NO	KG C 8	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

30

DB-4/12

GH=1-895

£

PADDY FIELD

PADDY FIELD

DL0.000

DL0.000

DB-4/11

GH=103

£

PADDY FIELD

PADDY FIELD

DL0.000

DL0.000

DB-4/10

GH=1-120

£

PADDY FIELD

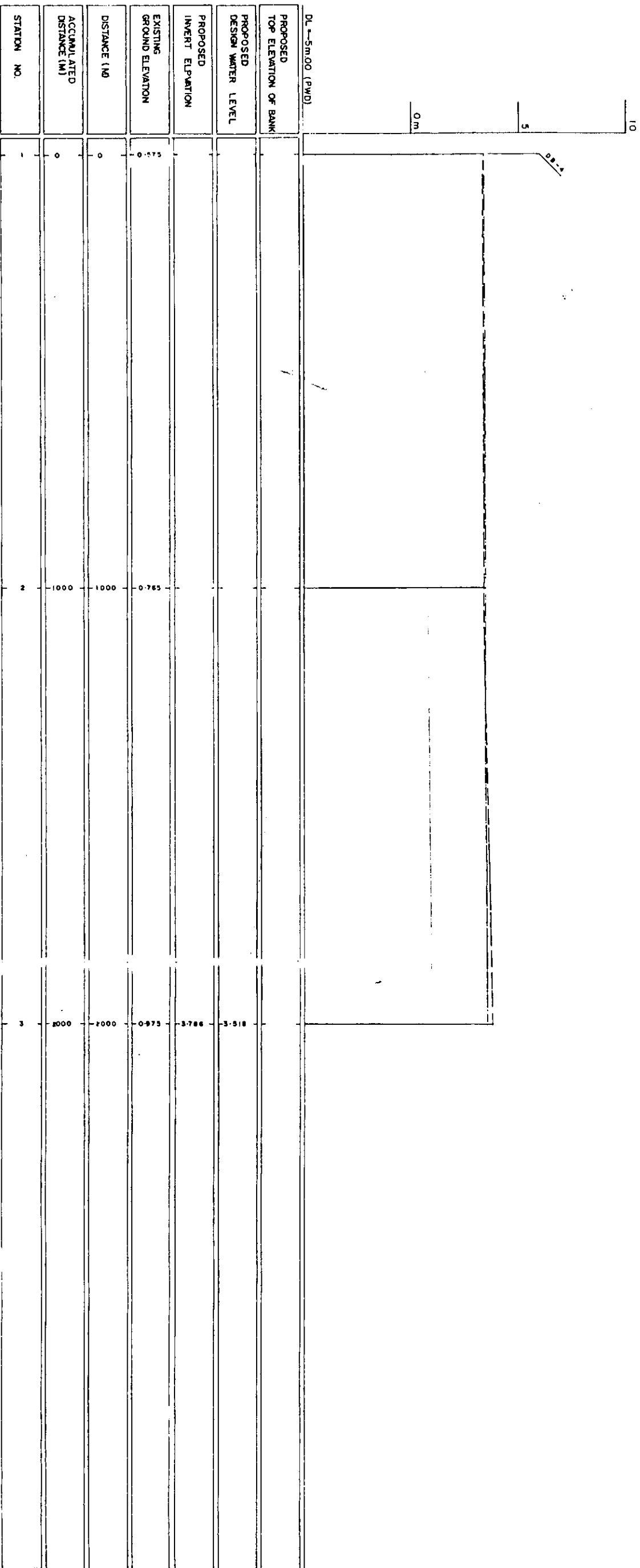
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DL0.000

DL0.000

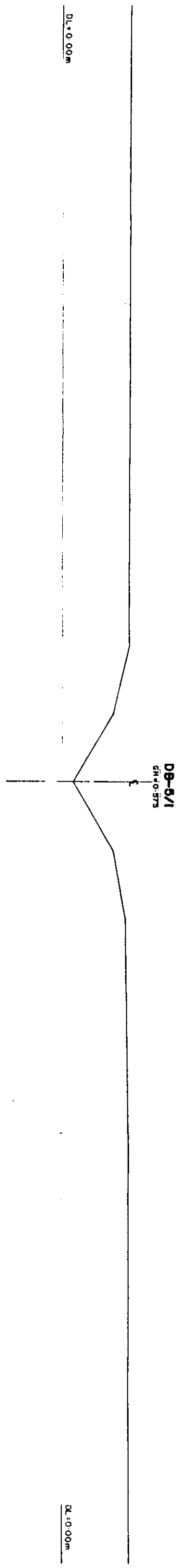
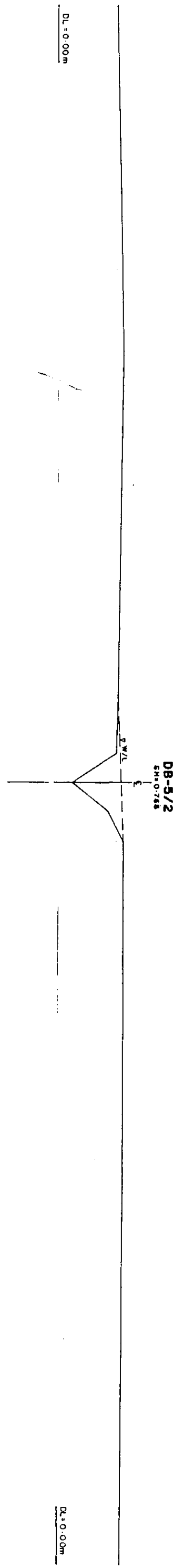
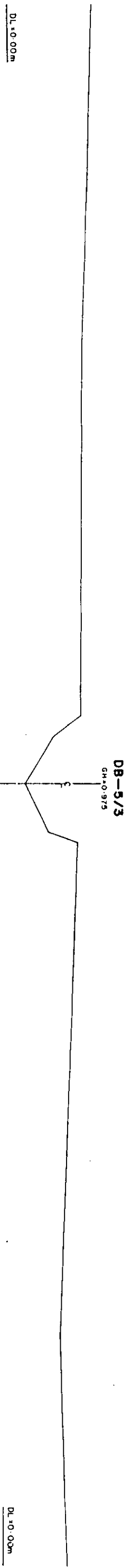
AL/R RACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-4		SCALE	H=1:200 V=1:100
DWG NO	K6 C 9	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			



LEGEND
EXISTING LETTERGROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
STUDY IN DHAKA METROPOLITAN AREA			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
DB-5	SCALE	1:1000	
DWG NO.	KG	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



* L/R FACING TO UP STREAM

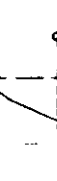
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STUDY IN DHAKA METROPOLITAN AREA I				
BANGLADESH FLOOD ACTION PLAN NO.8A				
DHAKA METROPOLITAN AREA				
CROSS SECTION OF CANAL				
DB-5	SCALE	DATE	BY	1998
DWG NO	NG C IO	DATE	BY	1998
JAPAN INTERNATIONAL COOPERATION AGENCY				

52

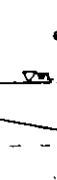
DB-6/3
GH+0.995



DB-6/2
GH+0.615

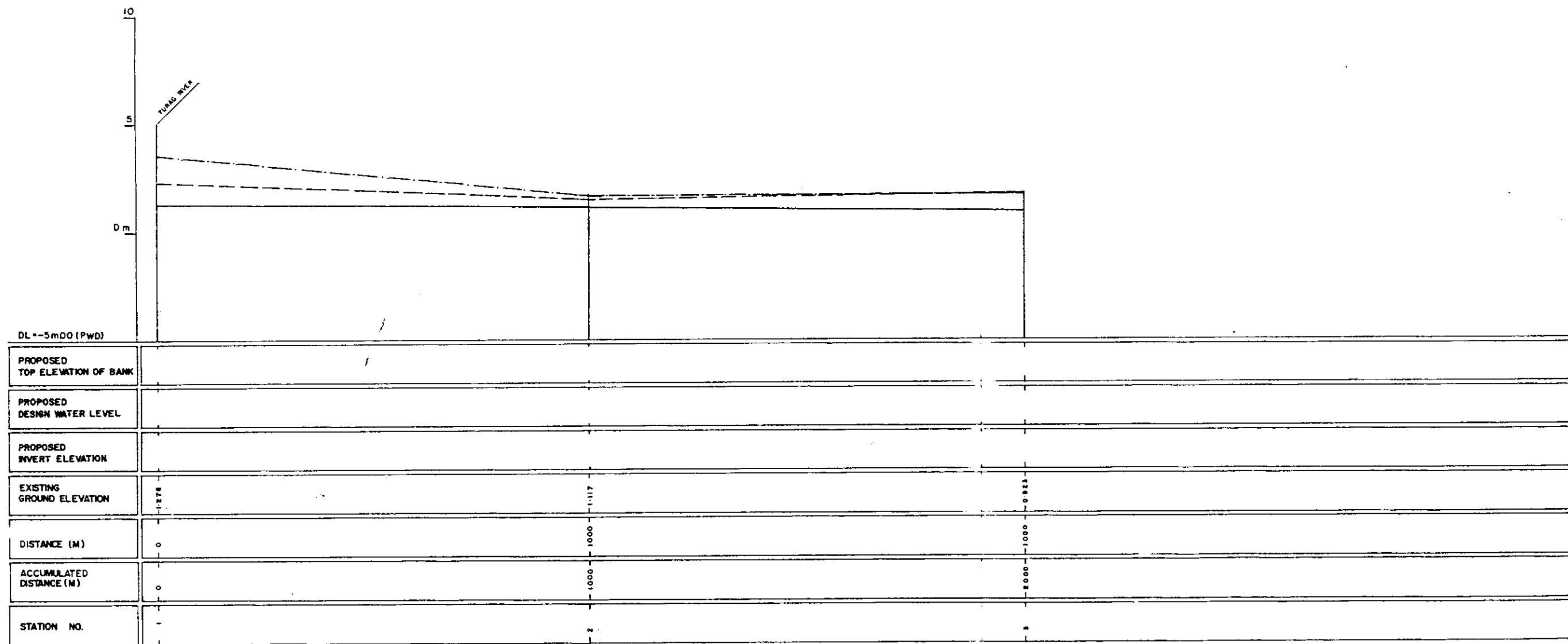


DB-6/1
GH+0.405



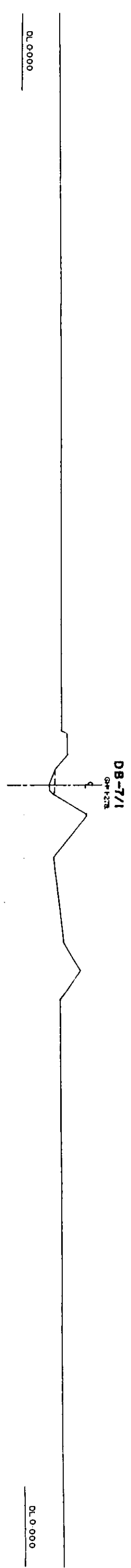
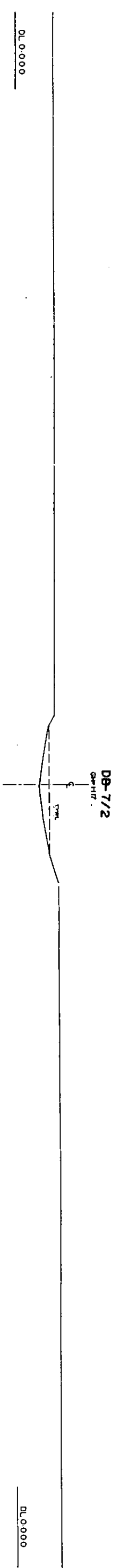
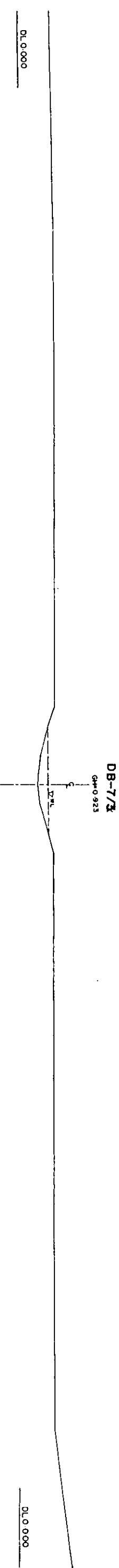
§ L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA I)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DB-6		SCALE	H=1:200 V=1:100
DWG NO.	KG C II	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



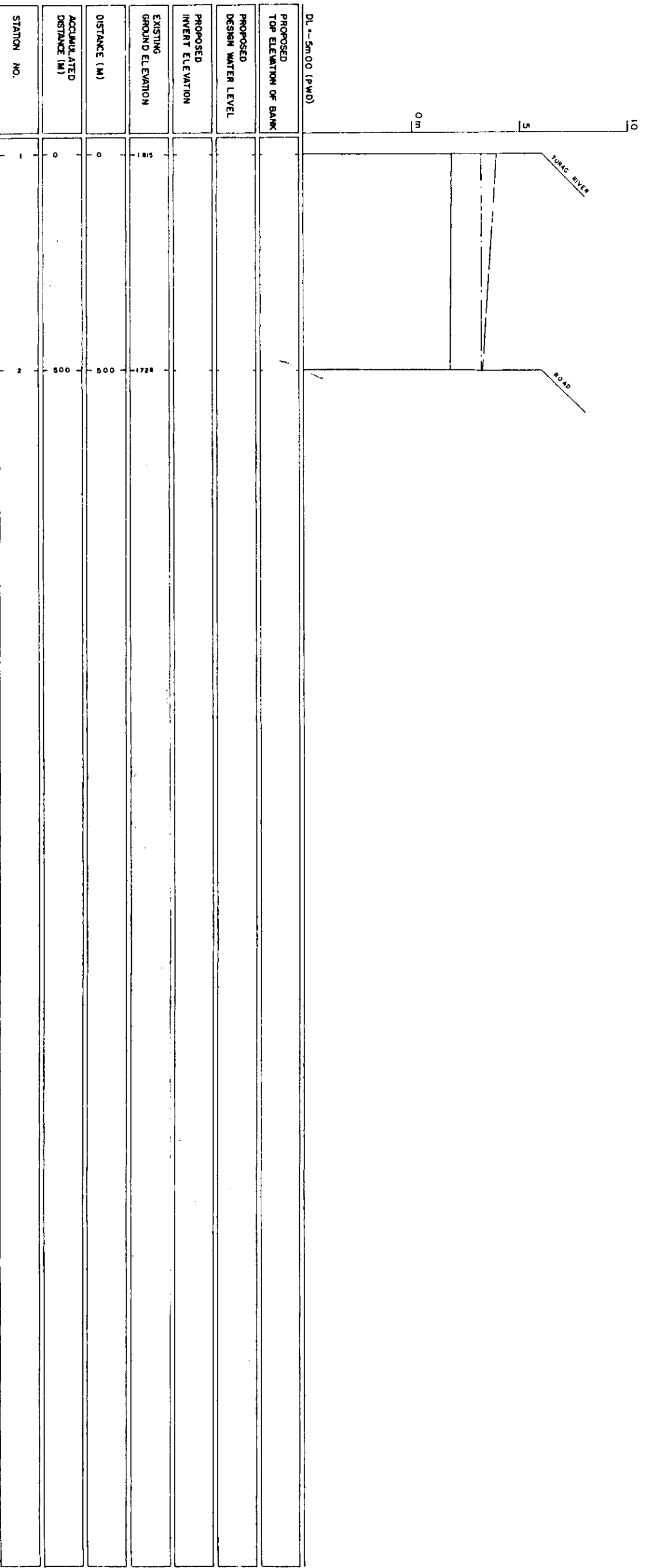
LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TOUP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
DB-7		SCALE	HWS 8000 V.H. 100
DWG NO	KG LII	DATE	March : 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



• L/R FACING TOP STREAM

GREATER DHAKA PROTECTION PROJECT			
STUDY IN DHAKA METROPOLITAN AREA 1			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DWG NO.	KG C 12	SCALE	H=1:200 V=1:100
DATE	March	1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
UL/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.8A

DHAKA METROPOLITAN AREA

LONG SECTION OF CANAL

DB-8

SCALE

DATE

1:5000

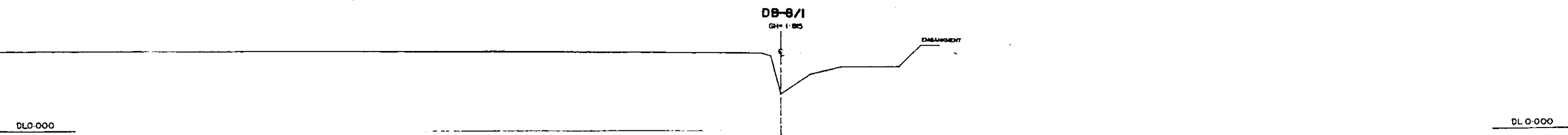
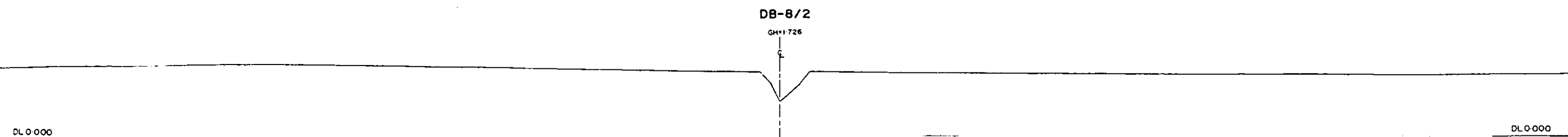
March 1981

DATE

1981

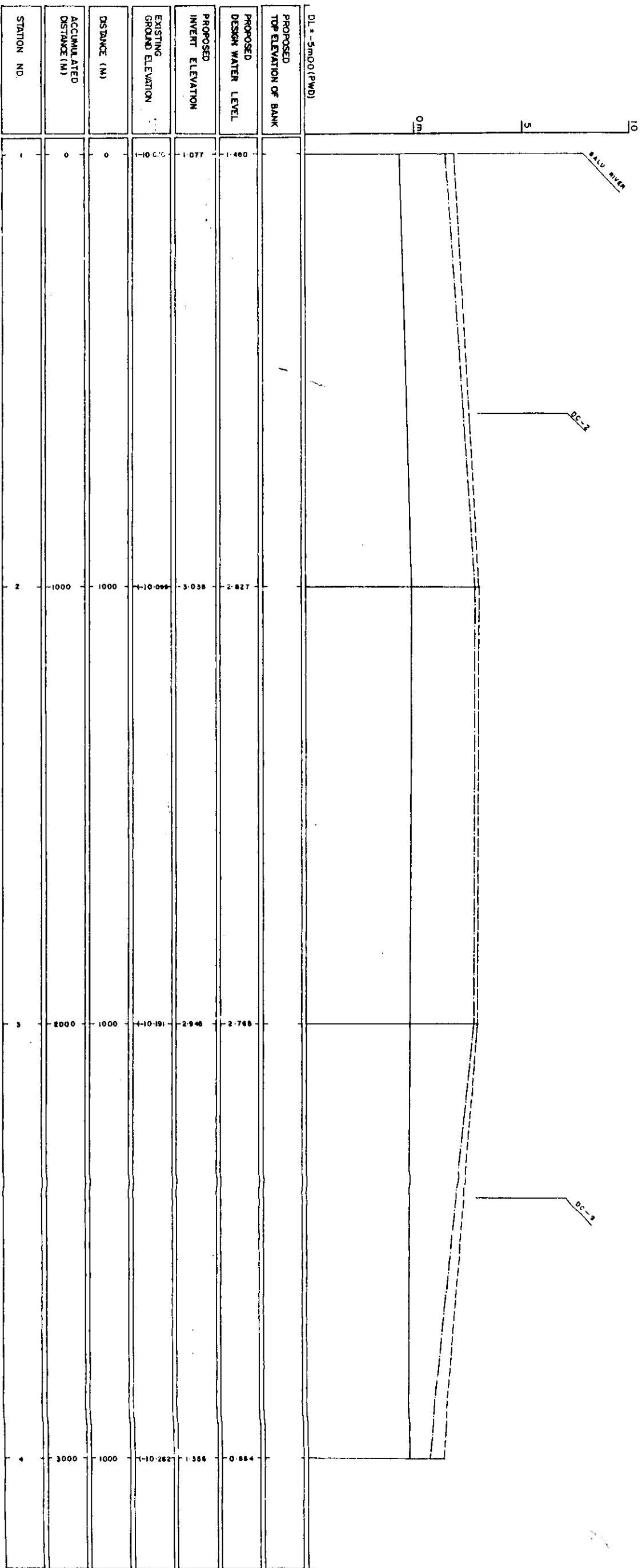
JAPAN INTERNATIONAL COOPERATION AGENCY

92



← L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DB-8		SCALE	H=1:200 V=1:100
DWG NO	KG C13	DATE	March 1994
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA.)
BANGLADESH FLOOD ACTION PLAN NO.BA

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

DC-1

SCALE

DATE

March 1981

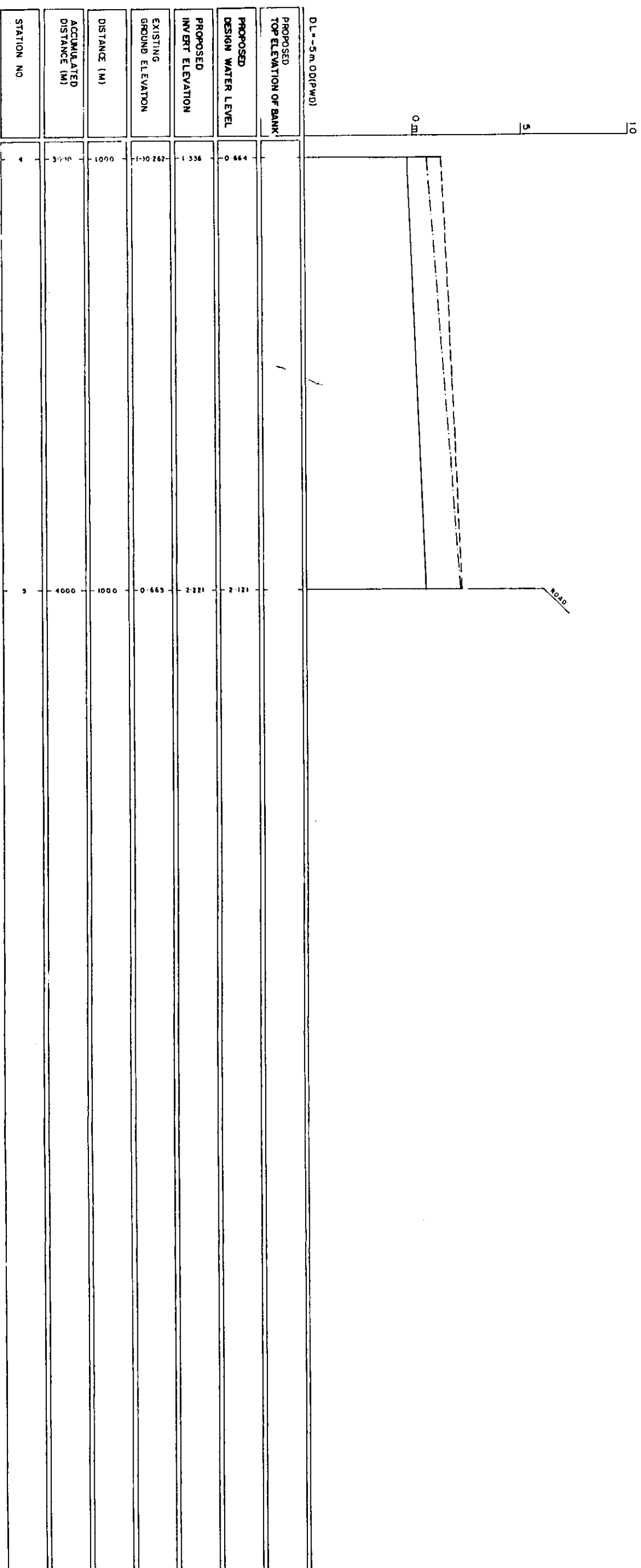
DESIGNED BY

KG L 13

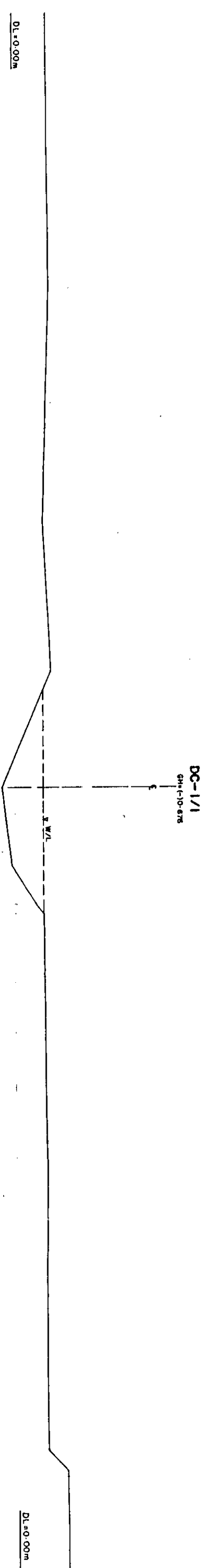
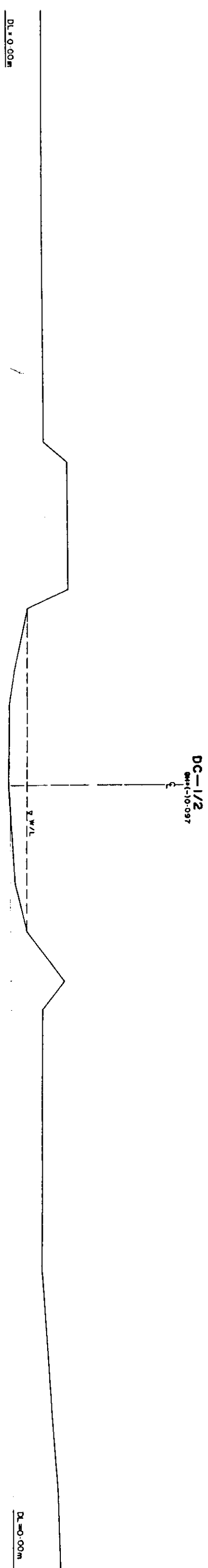
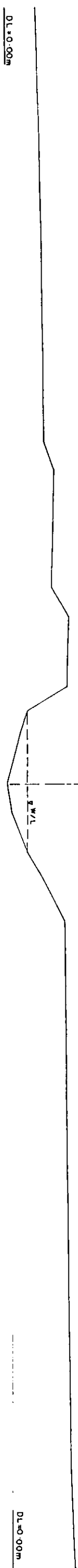
DATE

March 1981

JAPAN INTERNATIONAL COOPERATION AGENCY

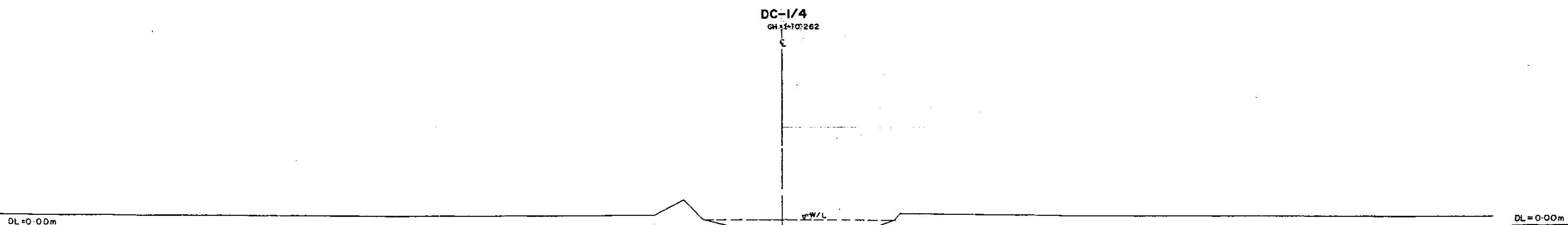
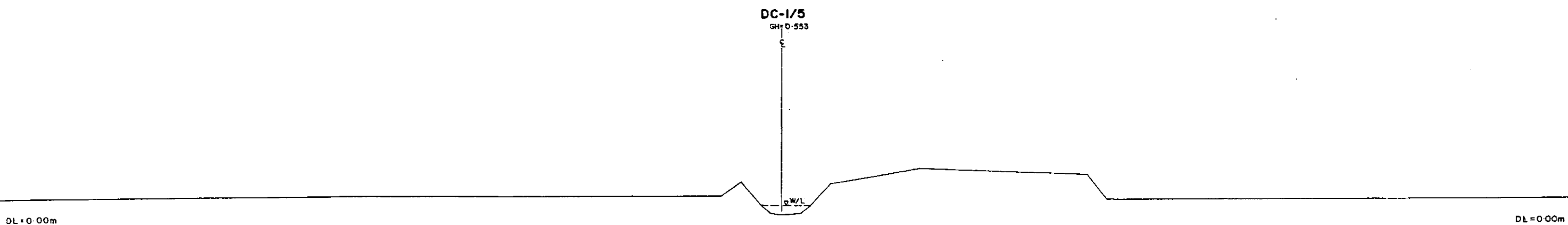


LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
* L/R FACING TO UP STREAM



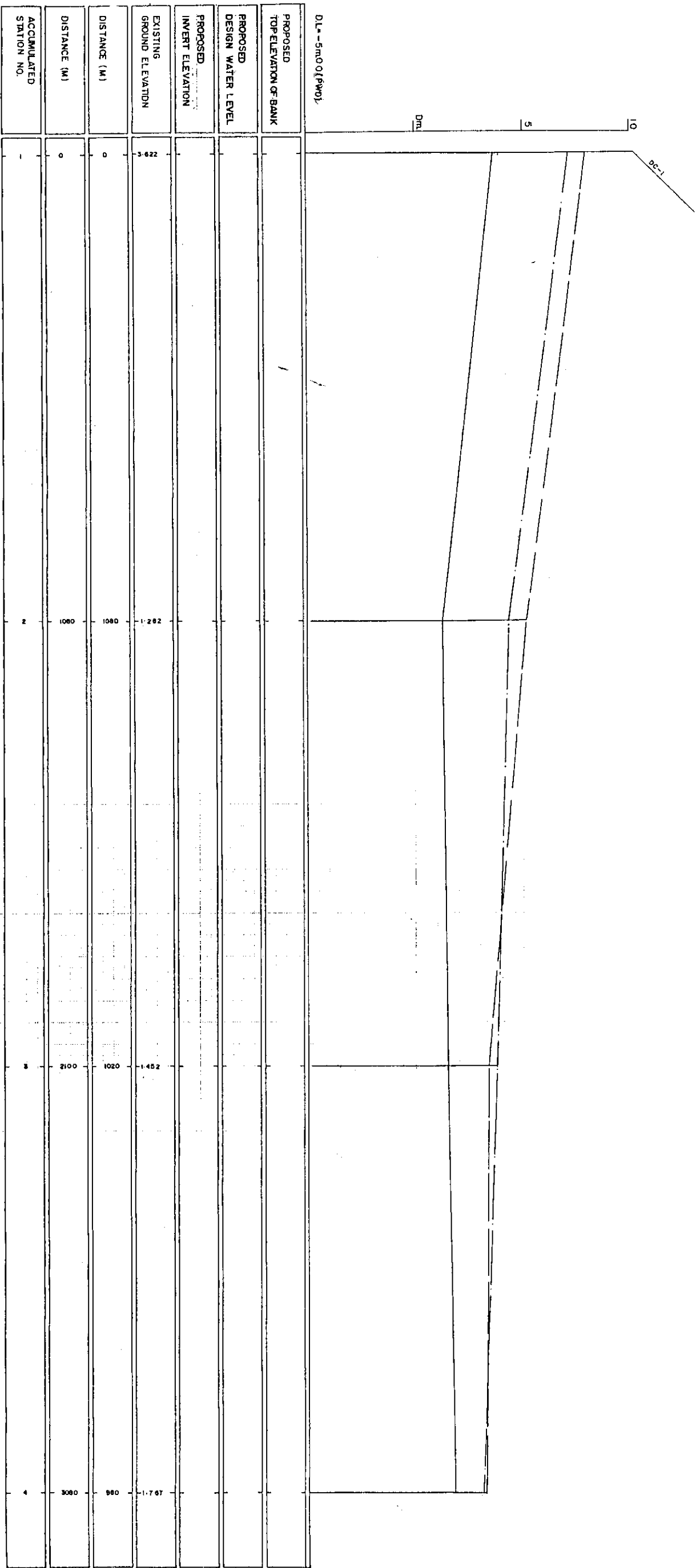
± L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
STUDY IN DHAKA METROPOLITAN AREA			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-1	SCALE	DATE	REVISION
NO. C14	1:100	March 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			



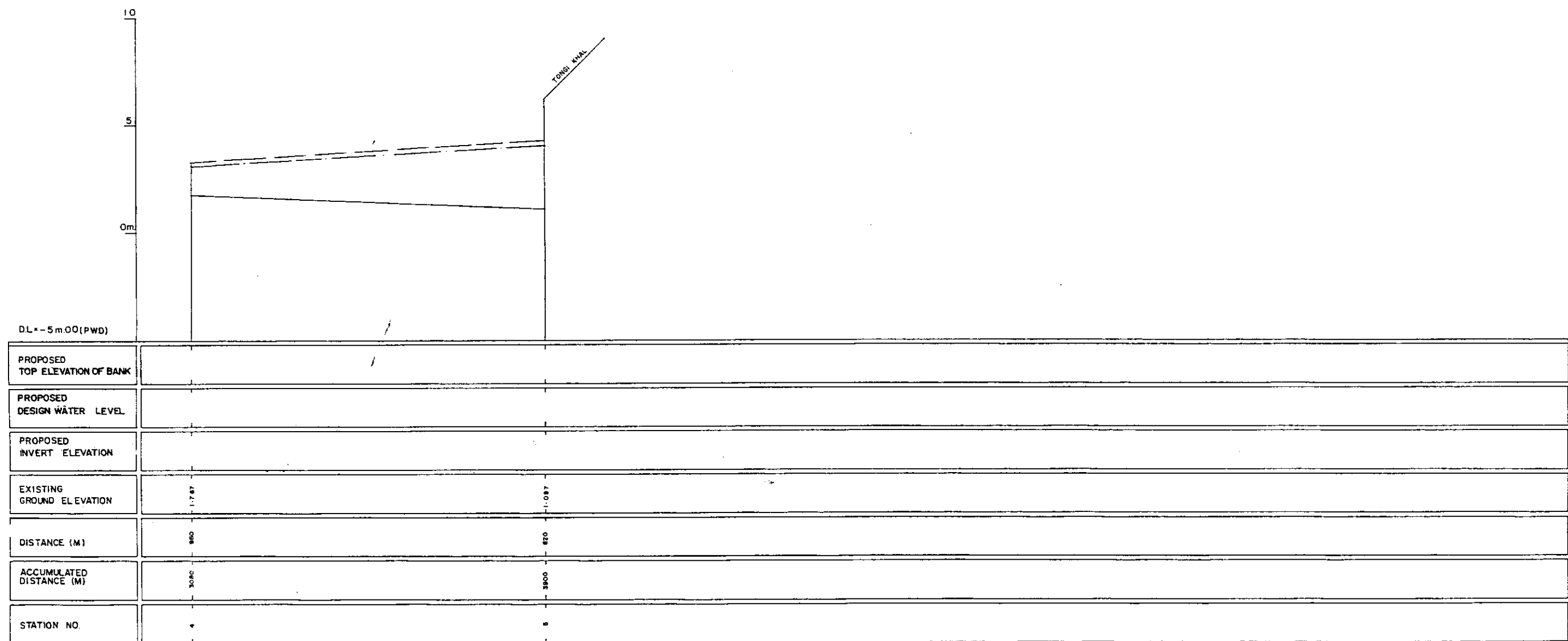
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-1	SCALE	H:1:200 V:1:100	
OWG. NO.	RG C 15	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TO UPSTREAM

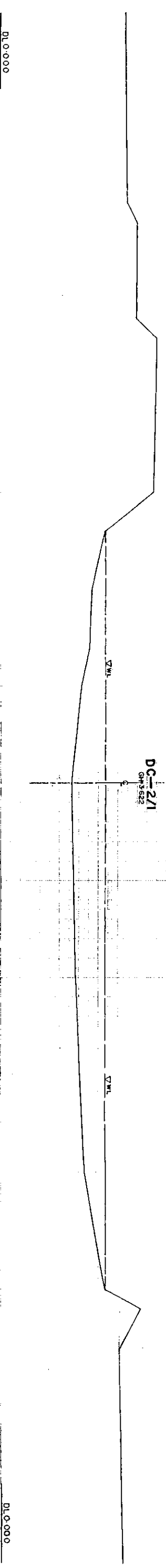
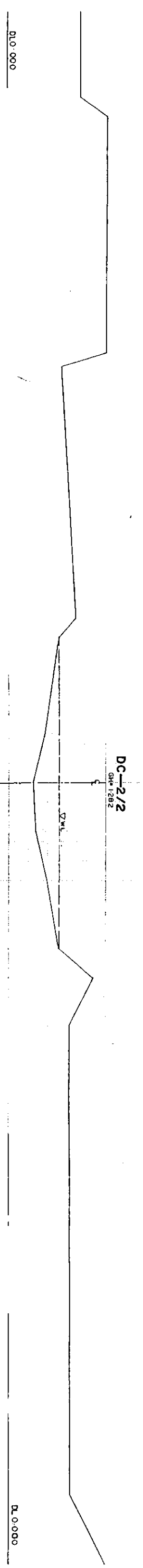
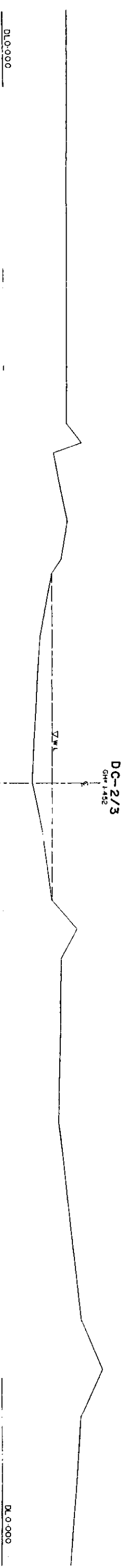
92



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - . - . -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TOUPSTREAM

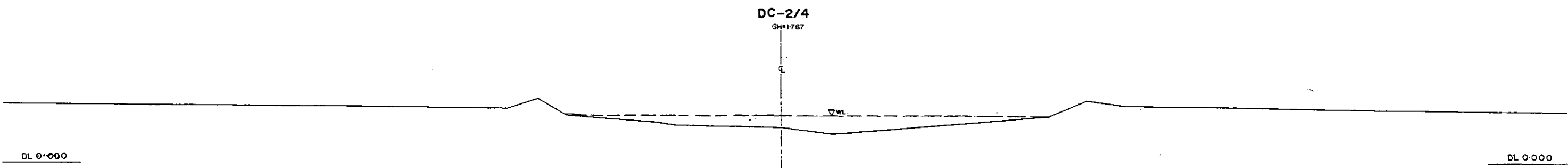
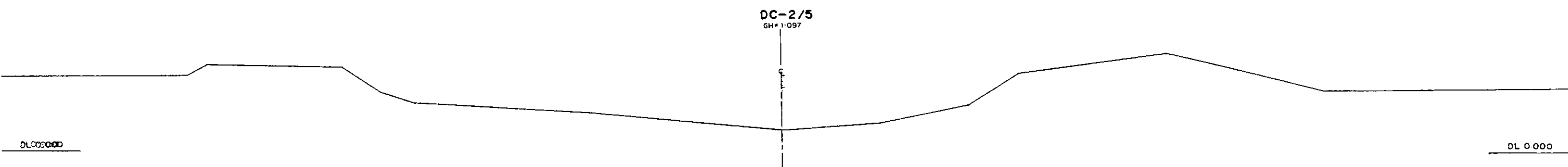
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.BA			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-2	SCALE	H= 1:5000 V= 1:100	
DWG.NO.	KG L16	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

10



* L/R FACING TOUR STREAM

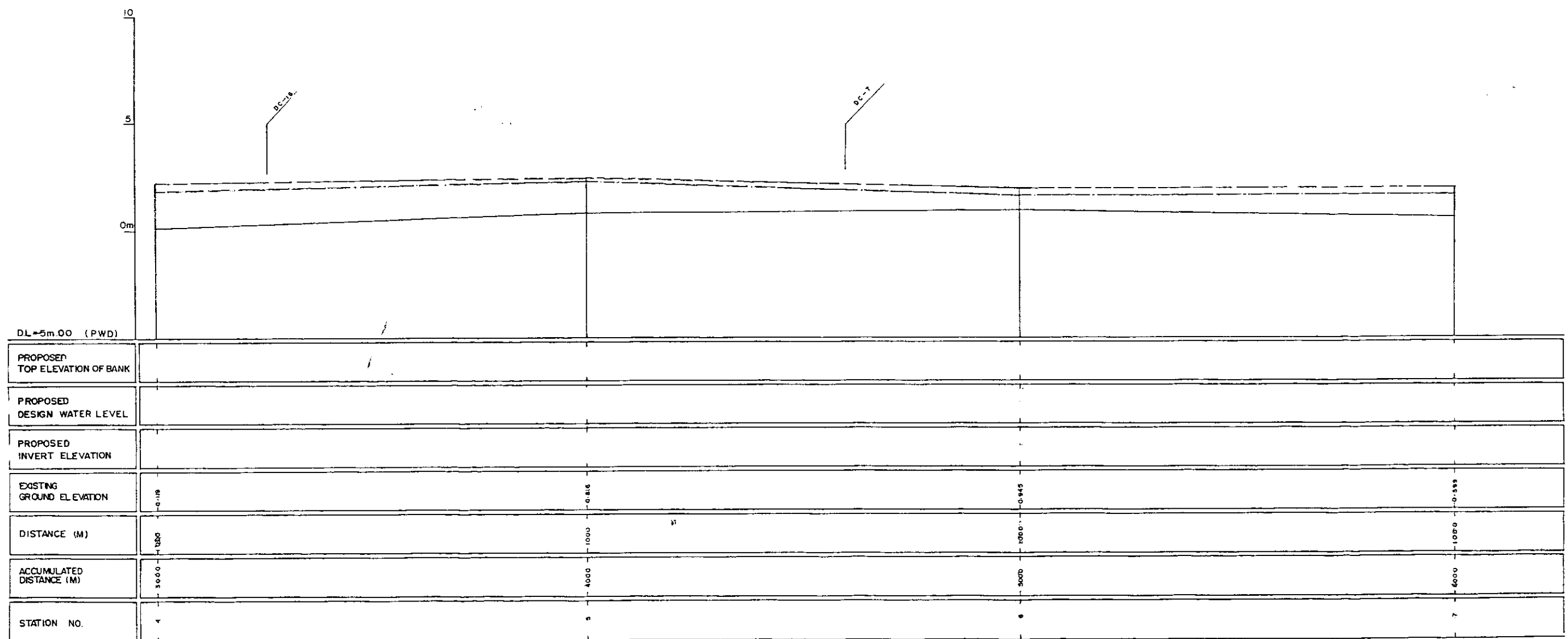
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
ORG. NO.	DC-2	SCALE	1:1000
KG	CH	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



* L/R FACING TO UP STREAM

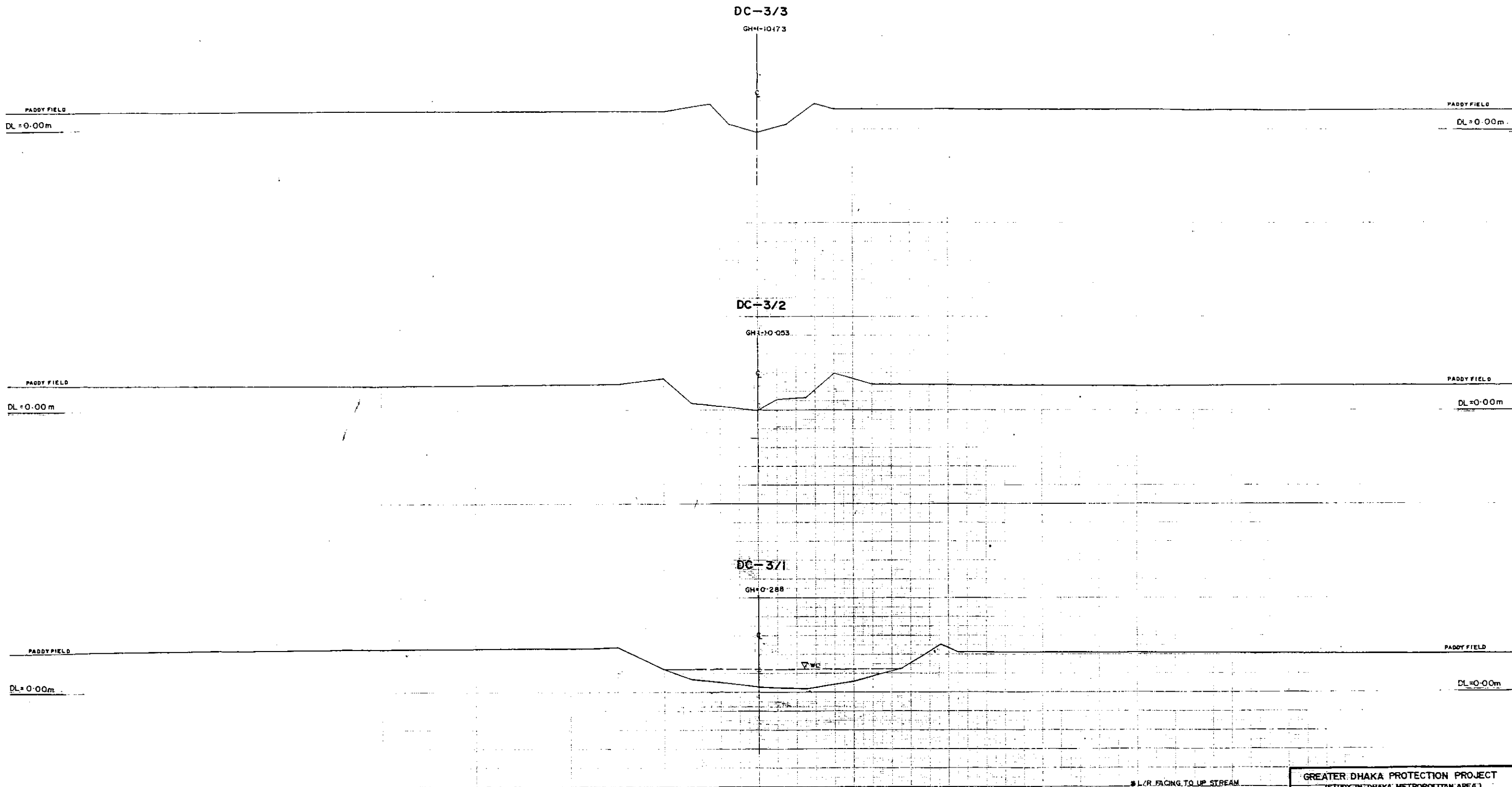
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-2		SCALE	H=1:200 V=1:100
DWG NO	KG C17	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

RG



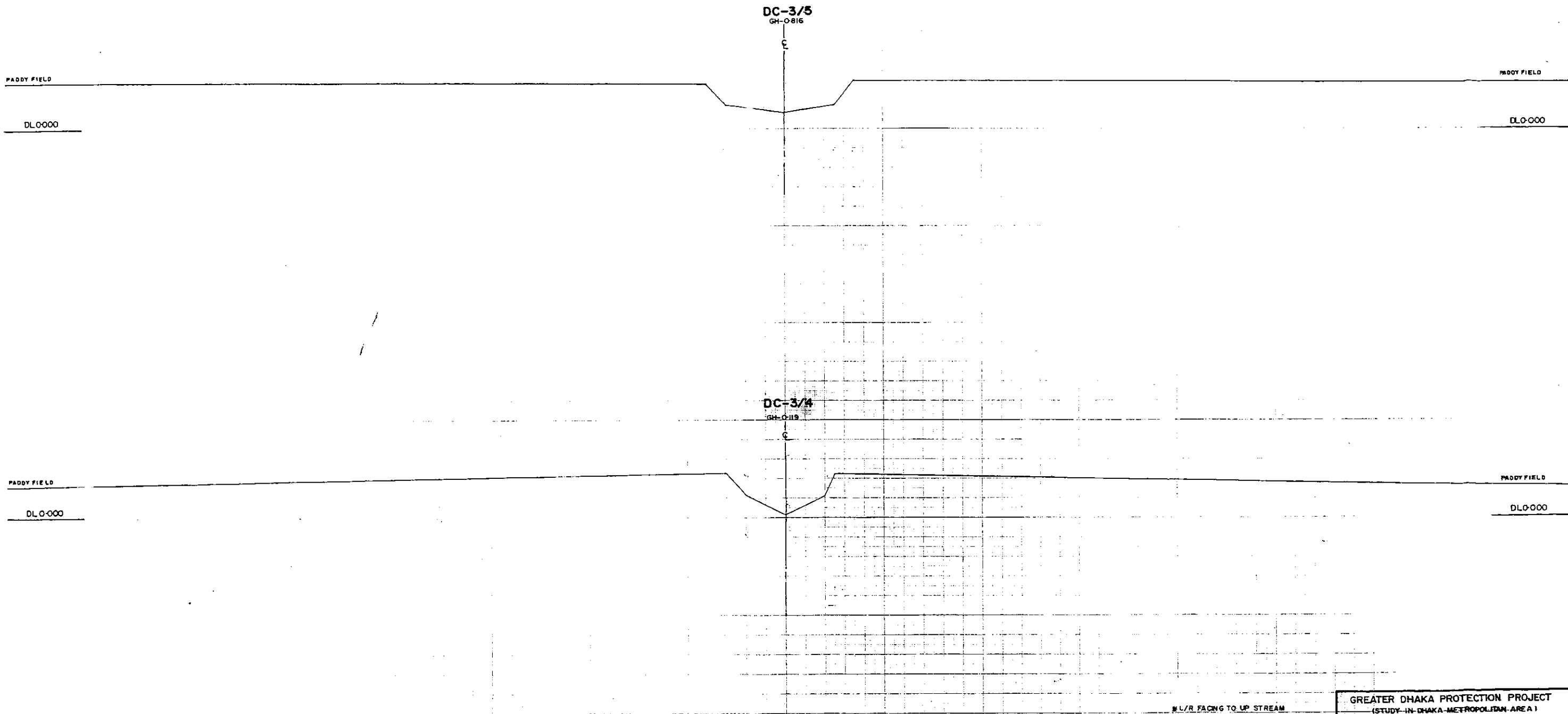
LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-3		SCALE	H* 1:5000 V* 1:100
DWG.NO.	KG L18	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL		
DC-3	SCALE	H=1:200 V=1:100
DWG NO.	KG C18	DATE March, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY		

10



GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA I)			
BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-3	SCALE	H=1200 V=100	
OWG. NO.	KG. C/S	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

13

DC-3/7
GH=0.599

C
▽WL

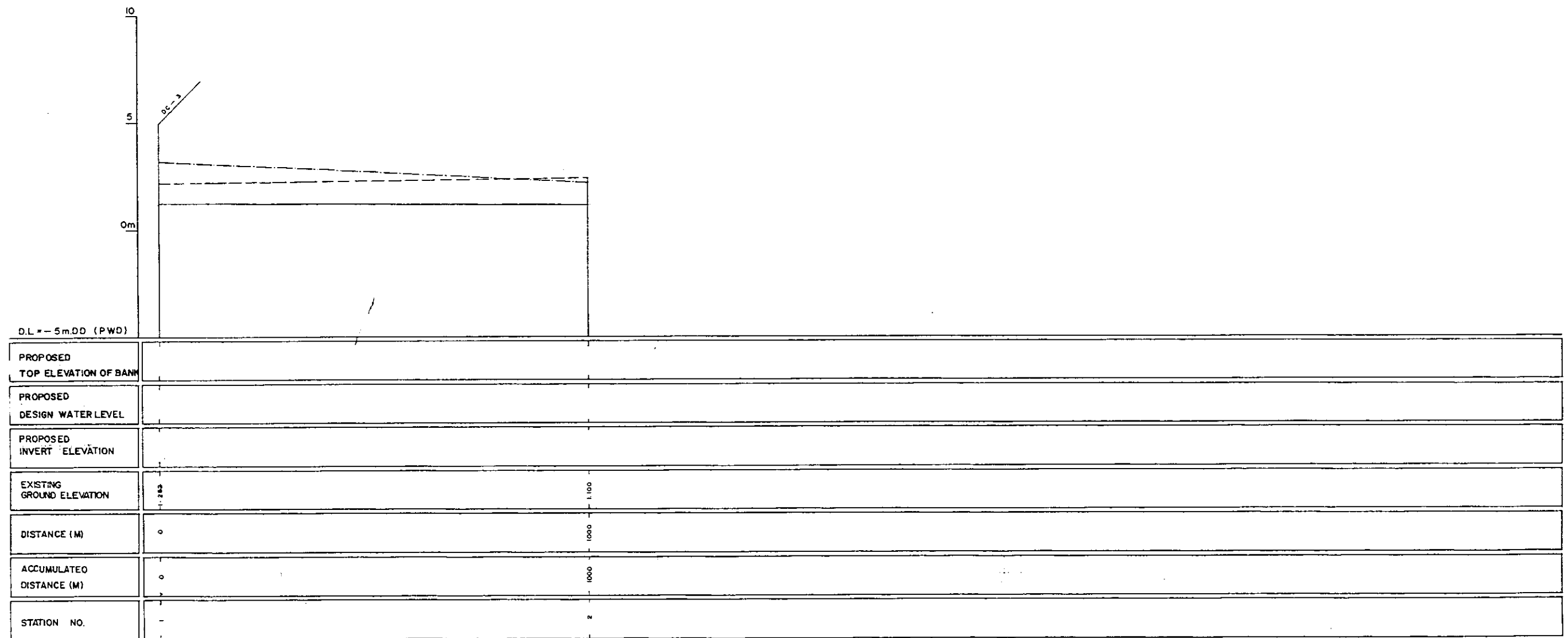
DC-3/6
GH=0.945

C

*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-3		SCALE	1:200
DWG NO	KG C20	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

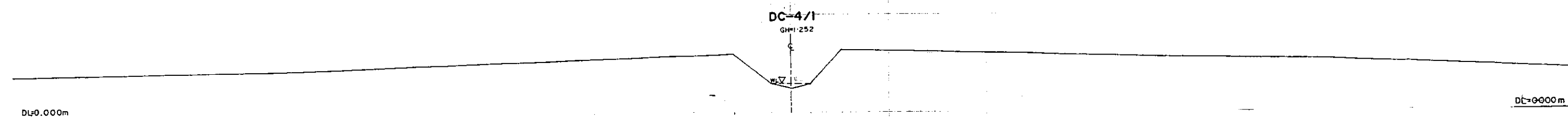
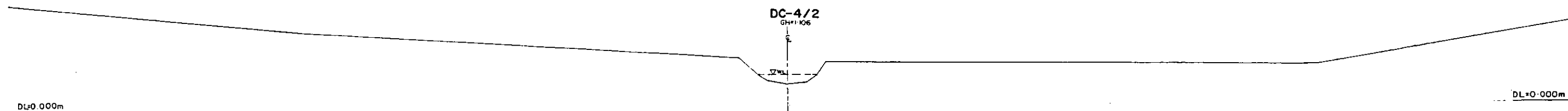
67



LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-4		SCALE	H=1:5000 V=1:100
DWG.NO.	KG L19	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

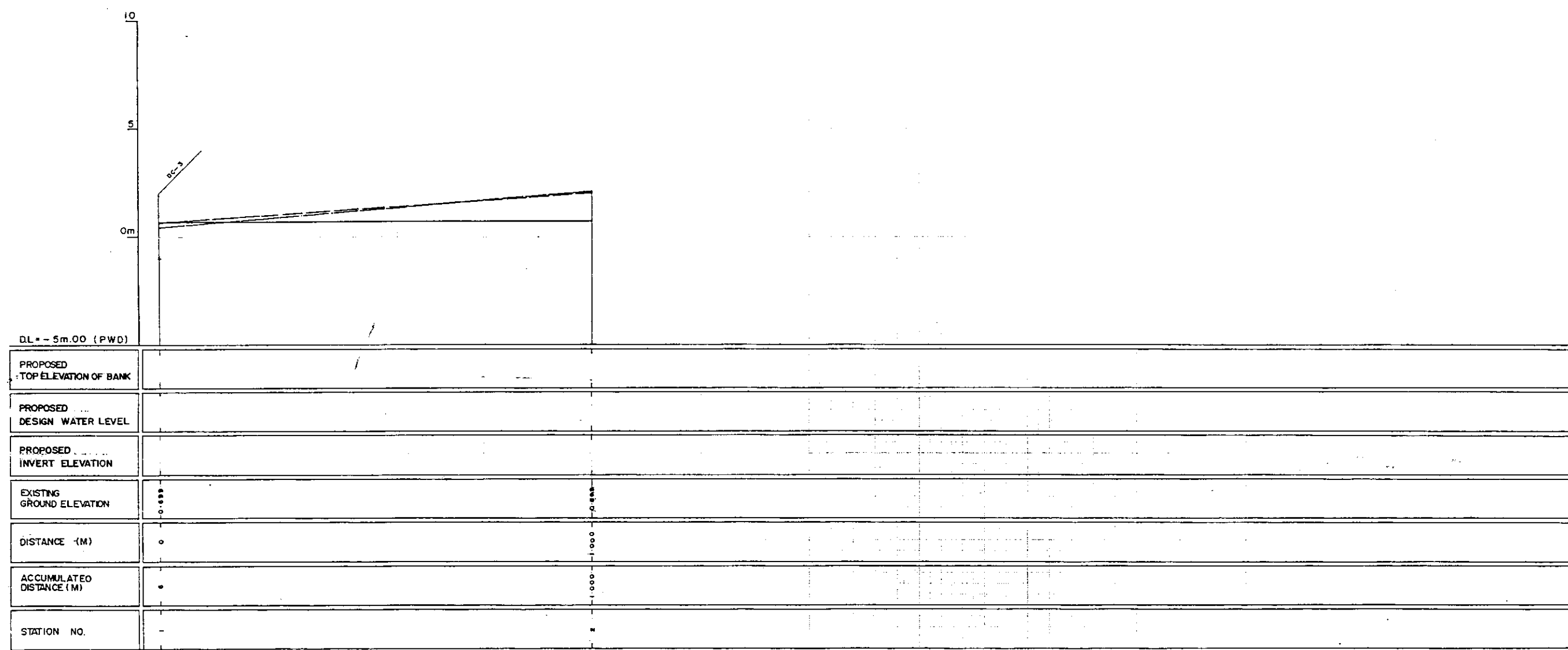
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*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-4		SCALE	H=1200 V=1:100
DWG NO.	KG C21	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

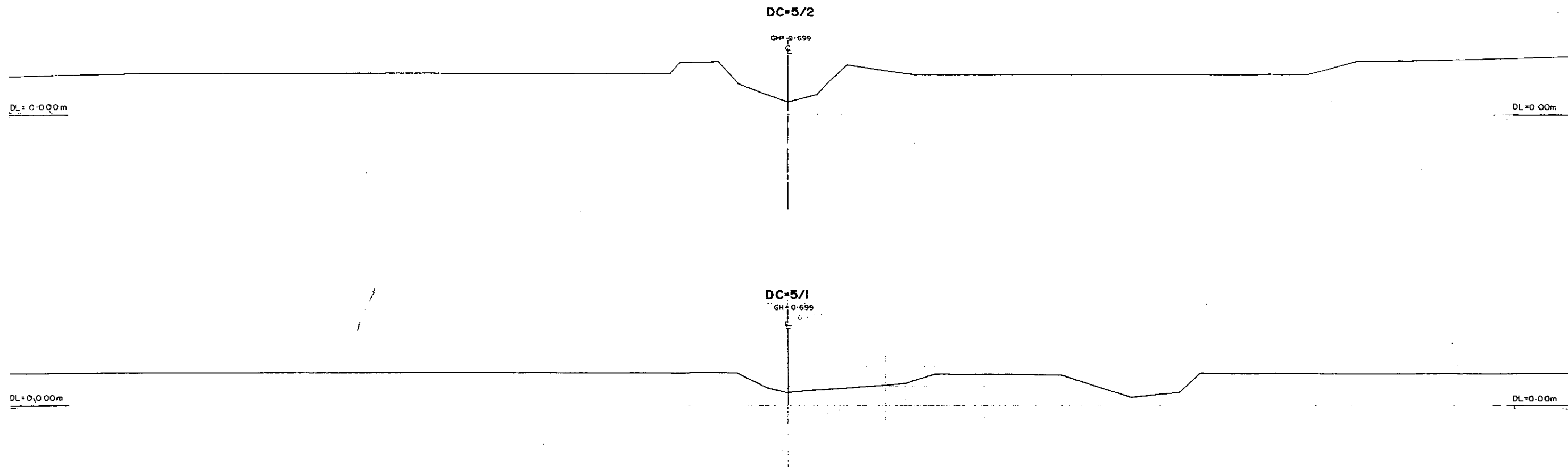
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LEGEND
 EXISTING LEFT GROUND LINE
 EXISTING RIGHT GROUND LINE
 EXISTING BOTTOM LINE
 * L/R FACING TO UP STREAM

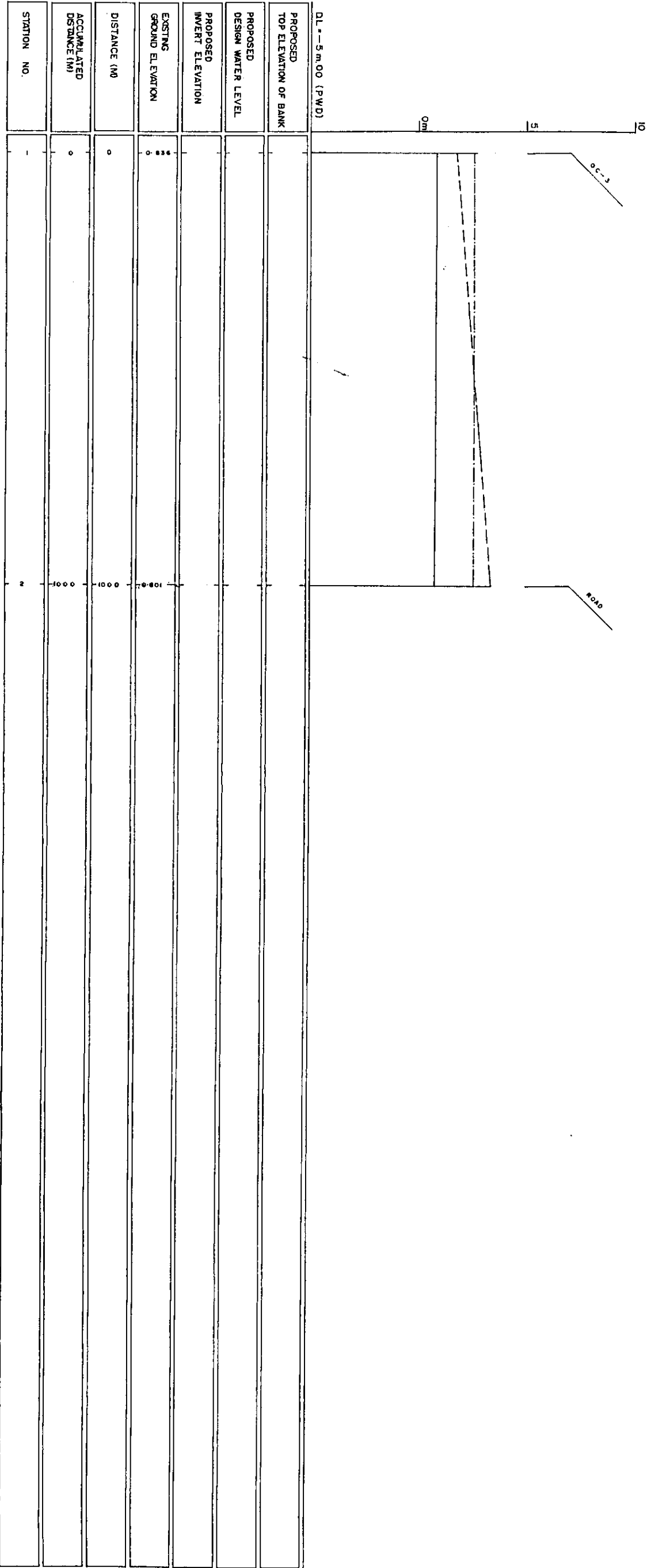
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
DC-5		SCALE	H/T:3000 V/T:100
DWG. NO.	KG L20	DATE	March, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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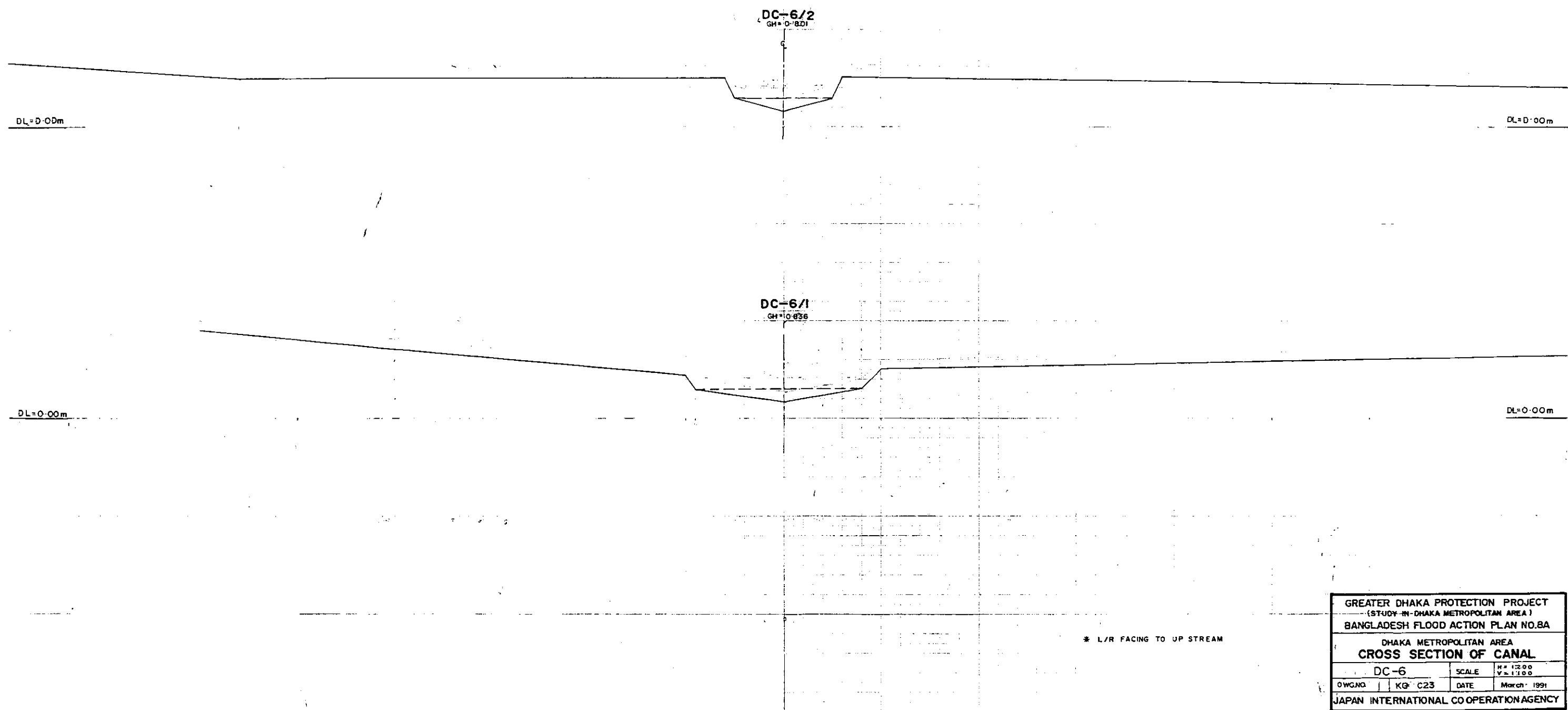


*L/R FACING TO UP STREAM

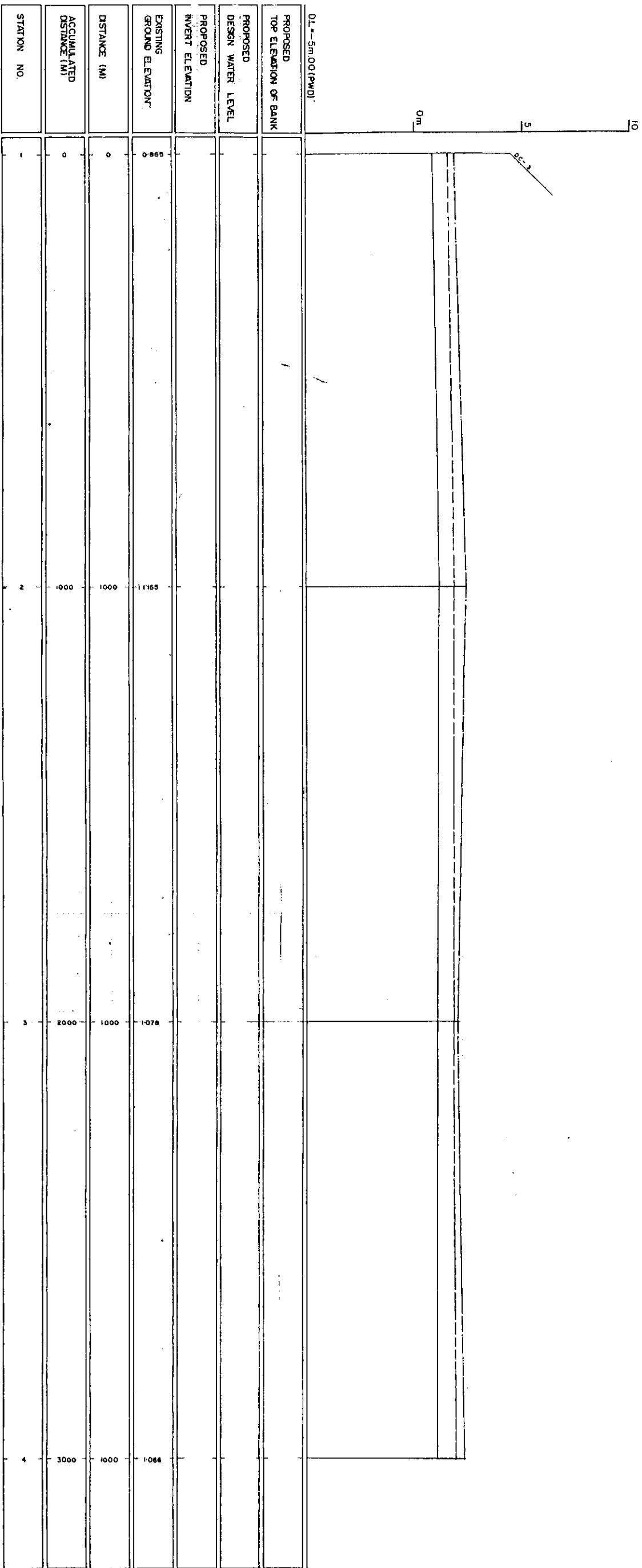
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-5		SCALE	H=1:200 V=1:100
DWG. NO.	KG., C22	DATE	March 1994
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
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EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R PLACING TO UP STREAM

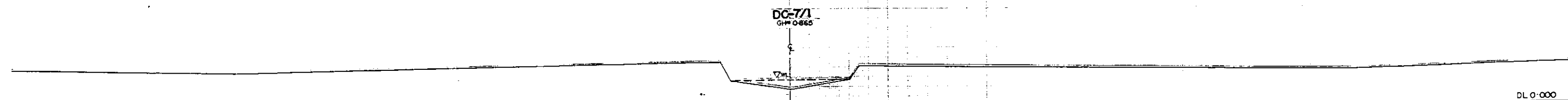
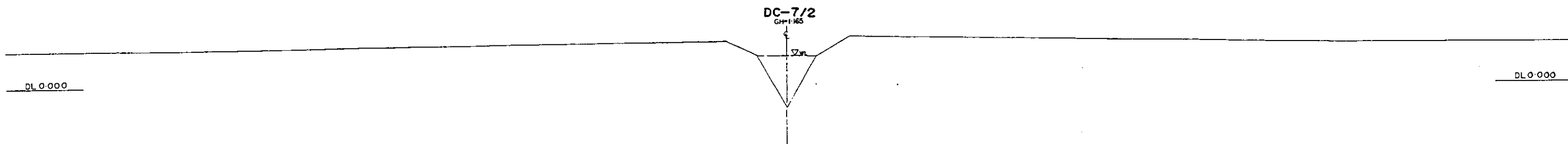


GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-6		SCALE	H=1:200 V=1:100
OWG.NO.	KG- C23	DATE	March 1991
JAPAN INTERNATIONAL CO-OPERATION AGENCY			



LEGEND
EXISTING GROUND LINE - - - - -
EXISTING RIGHT-OF-WAY LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UPSTREAM

28



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-7	SCALE	H=1:200 V=1:100	
DWG. NO.	KG C 24	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

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DC-7/4

GH=10.055

C

▽10

DL0+000

DL0+000

DC-7/3

GH=10.075

C

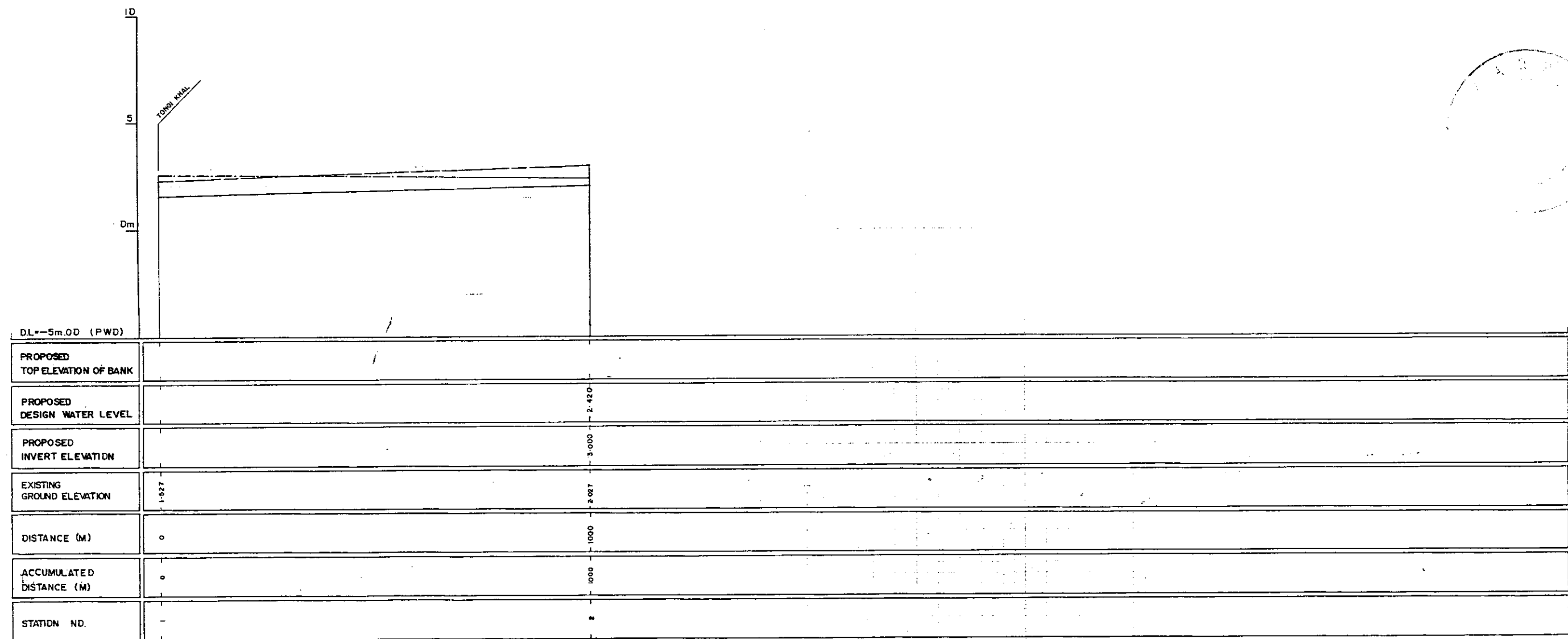
▽17

DL0+000

DL0+000

← L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-7		SCALE	M=200 V=1:00
DWG. NO.	KG C25	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



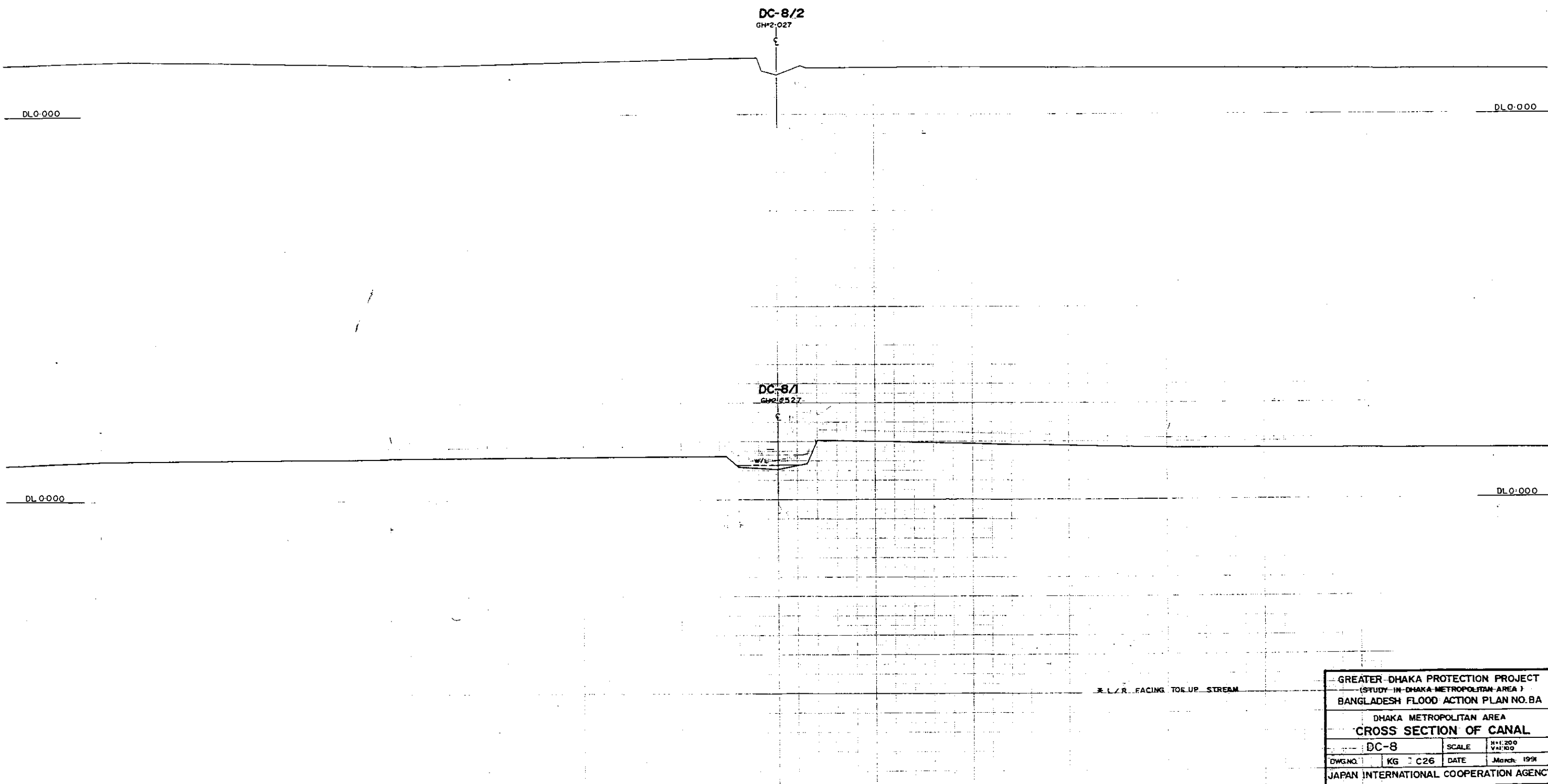
LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.8A
DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

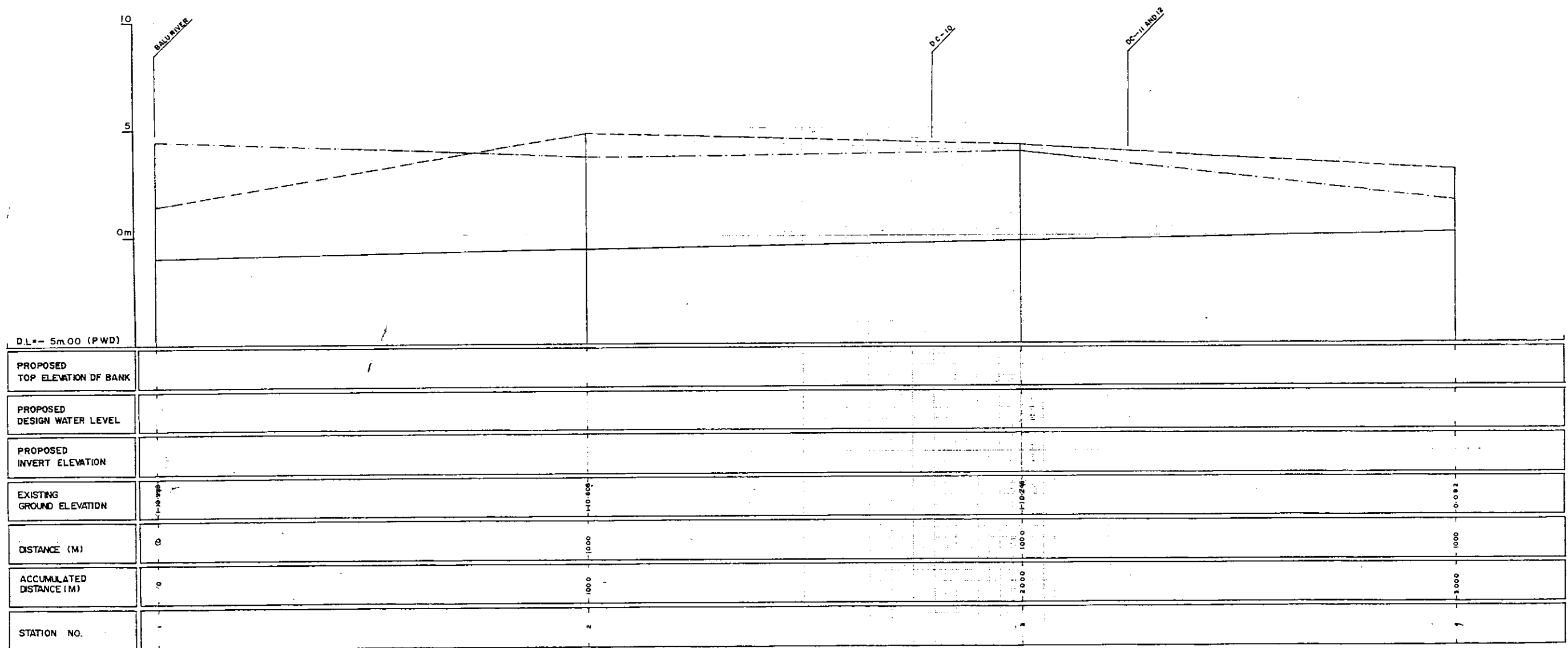
DWGNO.	KG L23	SCALE	H=1:5000 V=1:100
DATE	March 1991		

JAPAN INTERNATIONAL COOPERATION AGENCY

09



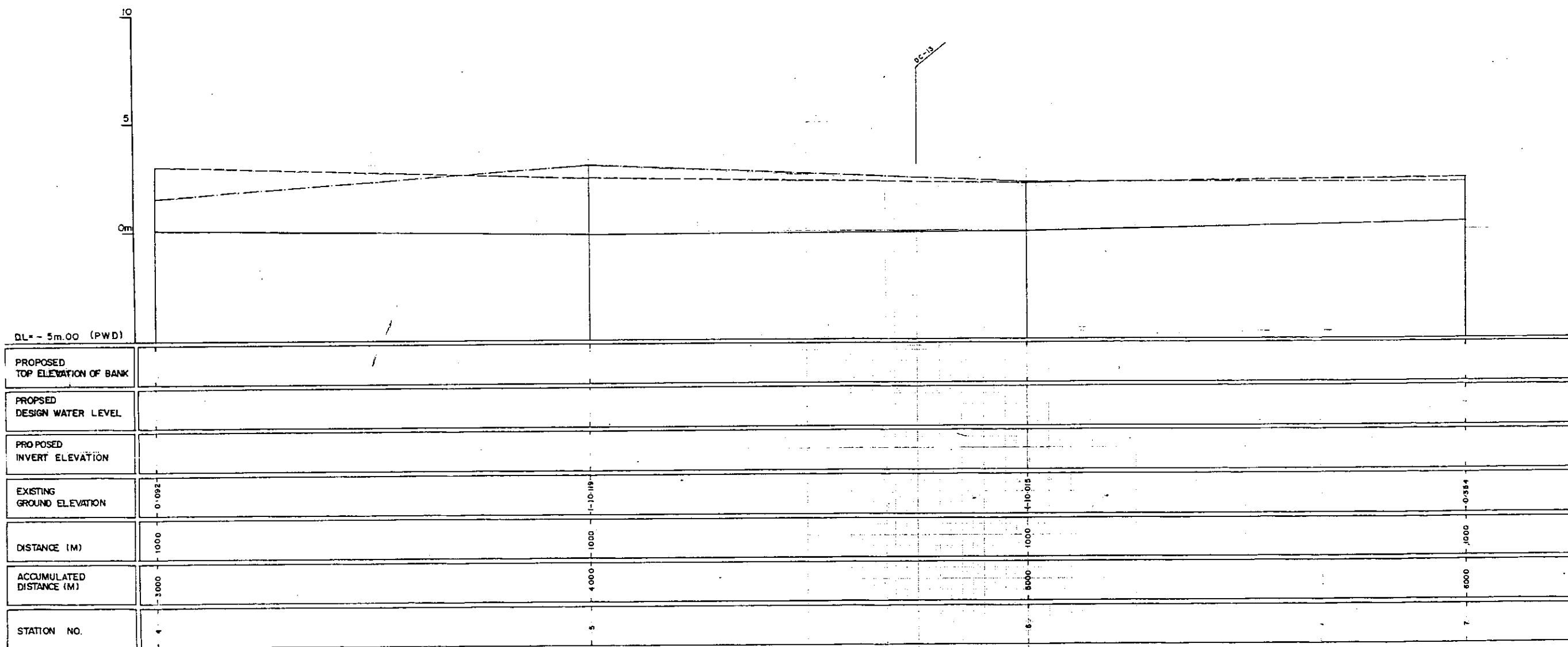
24



LEGEND
 EXISTING LEFT GROUND LINE ———
 EXISTING RIGHT GROUND LINE ———
 EXISTING BOTTOM LINE ———
 * L/R FACING TO UP STEAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
DC-9		SCALE	H/E 5000 V/H 100
DWG. NO.	KG L24	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

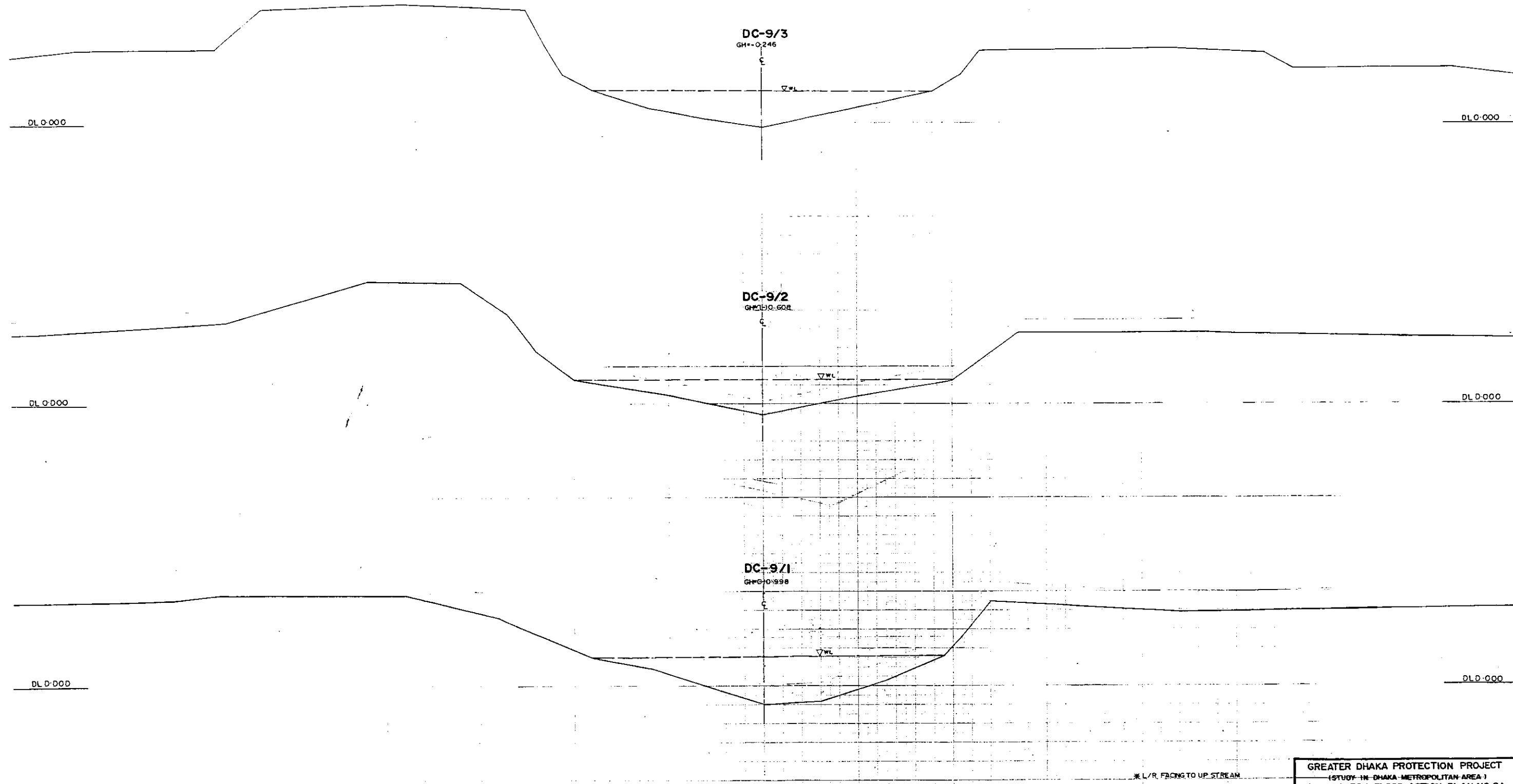
22



LEGEND
 EXISTING LEFT GROUND LINE - - - - -
 EXISTING RIGHT GROUND LINE - - - - -
 EXISTING BOTTOM LINE - - - - -
 * L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
DC-9		SCALE:	H=1 5000 V=1:100
DWG. NO.	KG L25	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

280



GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-9		SCALE	1:200
DWG. NO.	KG C27	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

DC-9/6

GM+0.05

S

W/L

DL0-000

DL0-000

DC-9/5

GM+0.119

S

W/L

DL0-000

DL0-000

DC-9/4

GM+0.092

S

W/L

DL0-000m

DL0-000

L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY - IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DWG. NO.	DC-9	SCALE	1:100
	3KG C 28	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

202

DC-9/8
DH=0.032

ε

▽ W/L

DL=0-000

DL=0-000

DC-9/7
BM=0.554

ε

▽ W/L

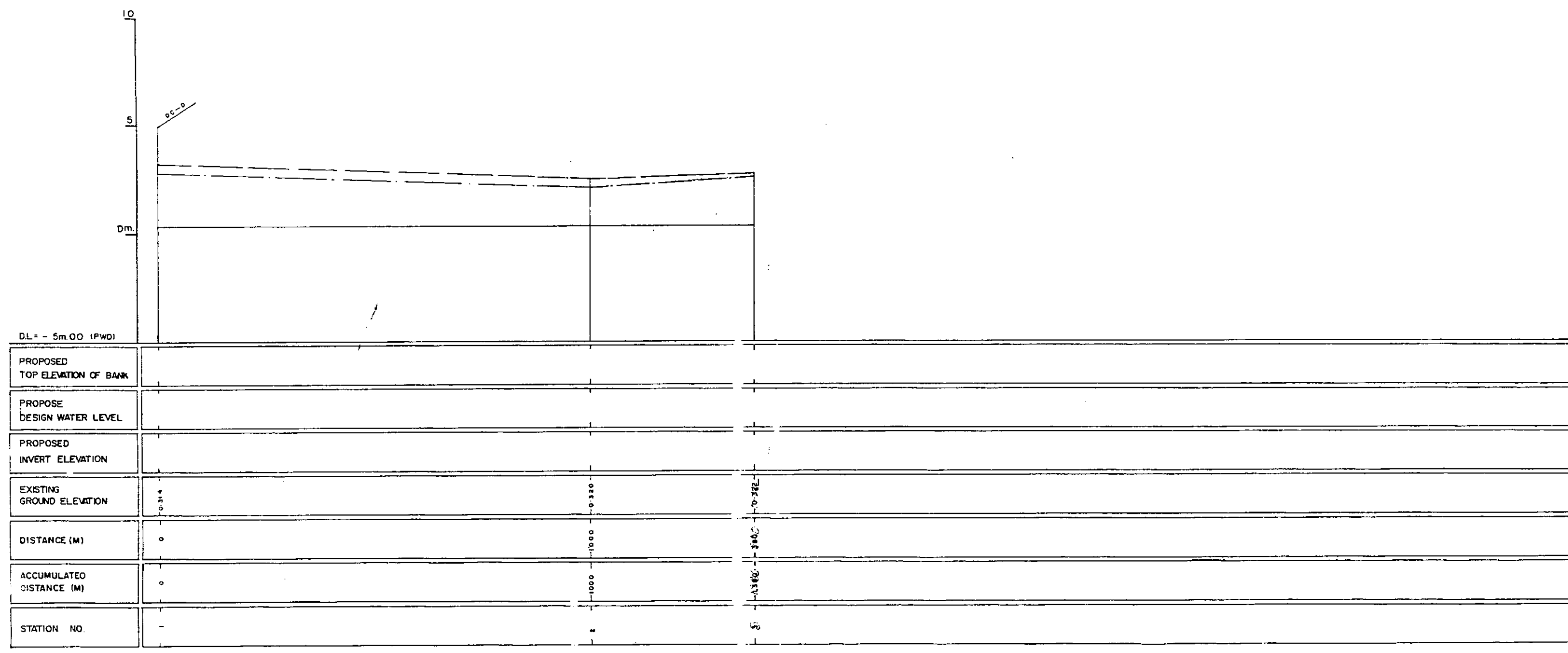
DL=0-000

DL=0-000

* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-9	SCALE	H=1:200 V=1:500	
DWG. NO. 1	KG. C29	DATE	March, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

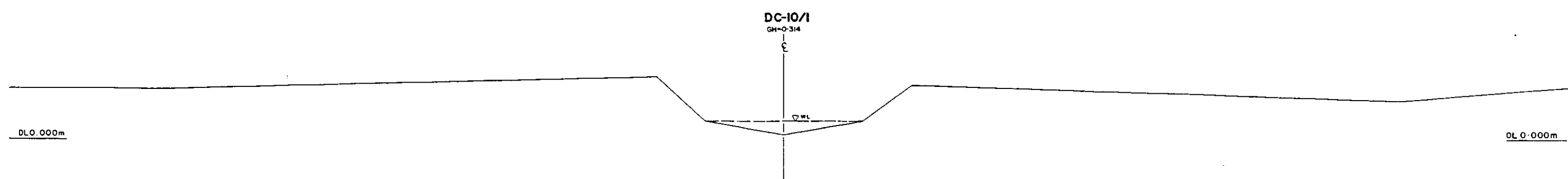
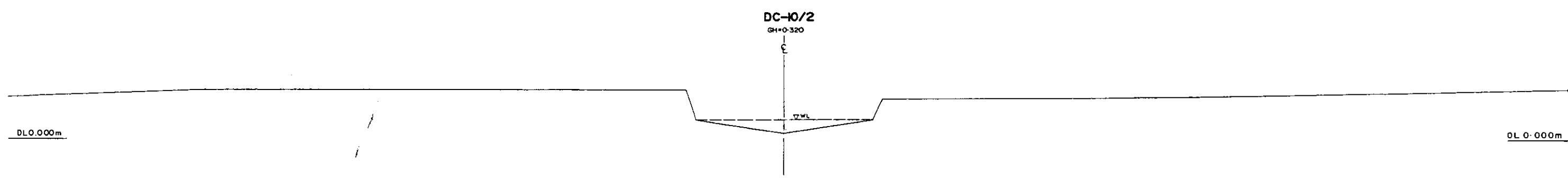
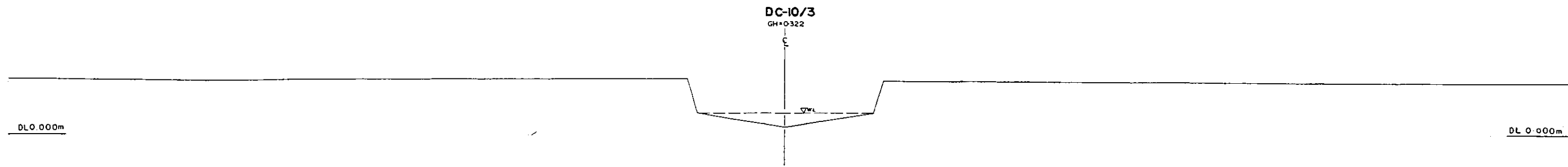
006



LEGEND
EXISTING LEFTGROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

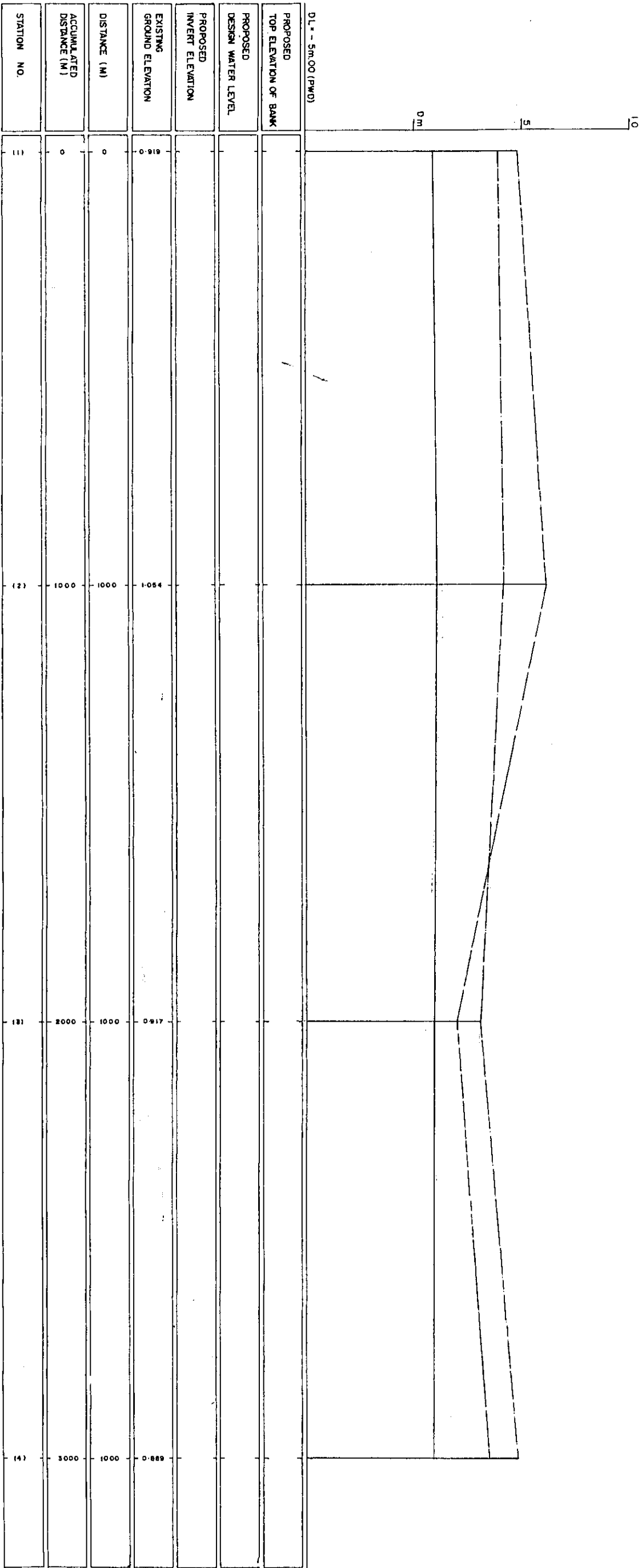
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-10		SCALE	H:V 5000 V:1 100
DWG. NO.	KG L26	DATE	MARCH 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

202

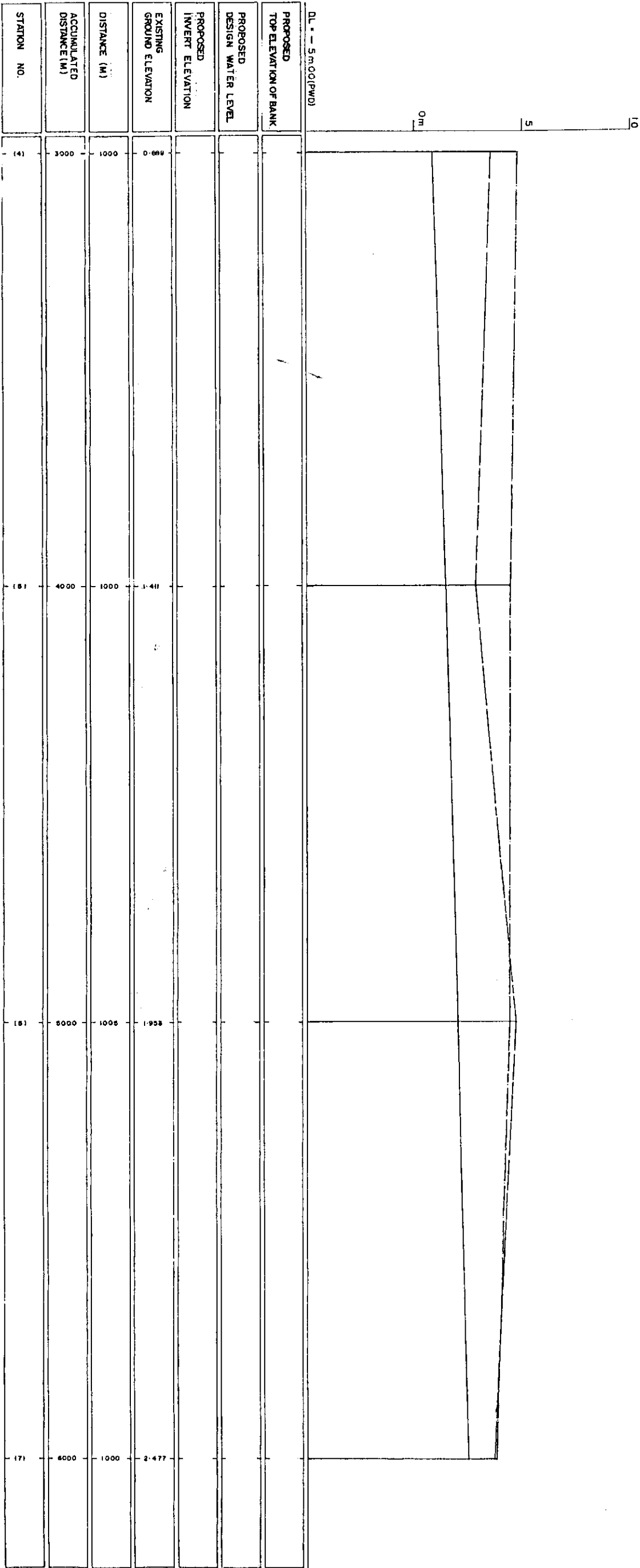


L/R FACING TO UP STREAM

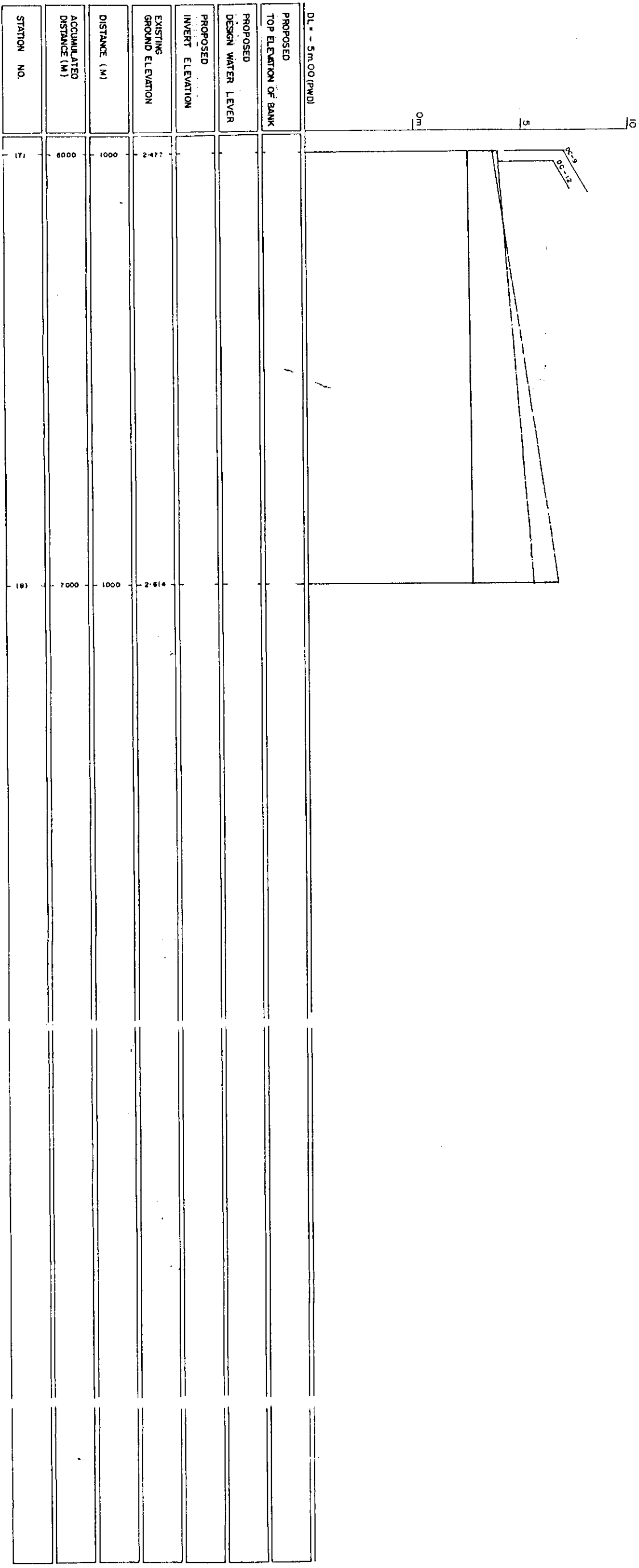
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-10	SCALE	1:200	1:100
DWG. NO.	KG C30	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			



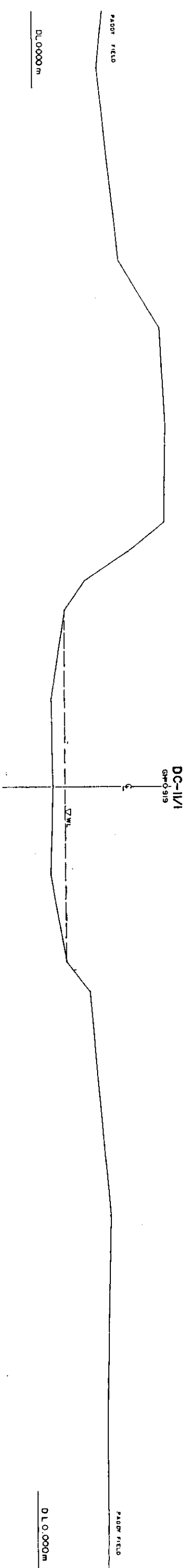
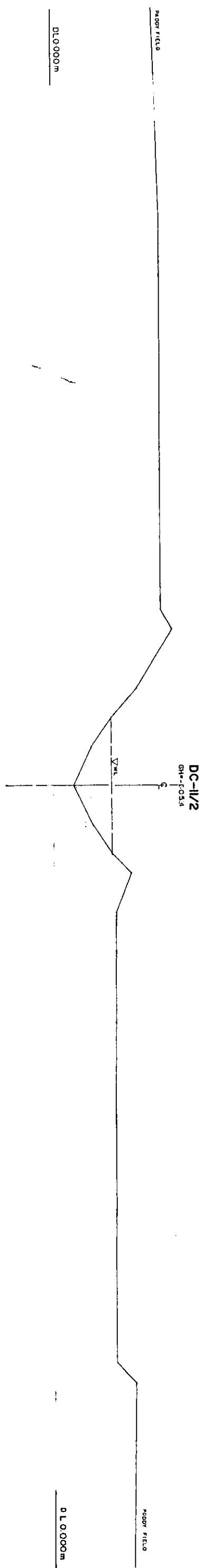
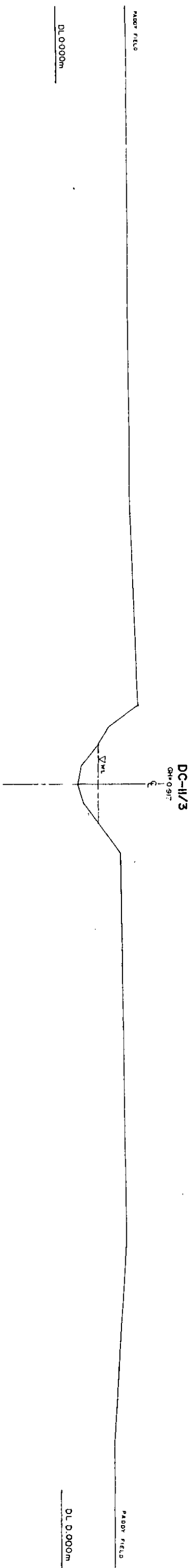
LEGEND
EXISTING LEFTGROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UPSTREAM



LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
* L/R FACING TO UP STREAM



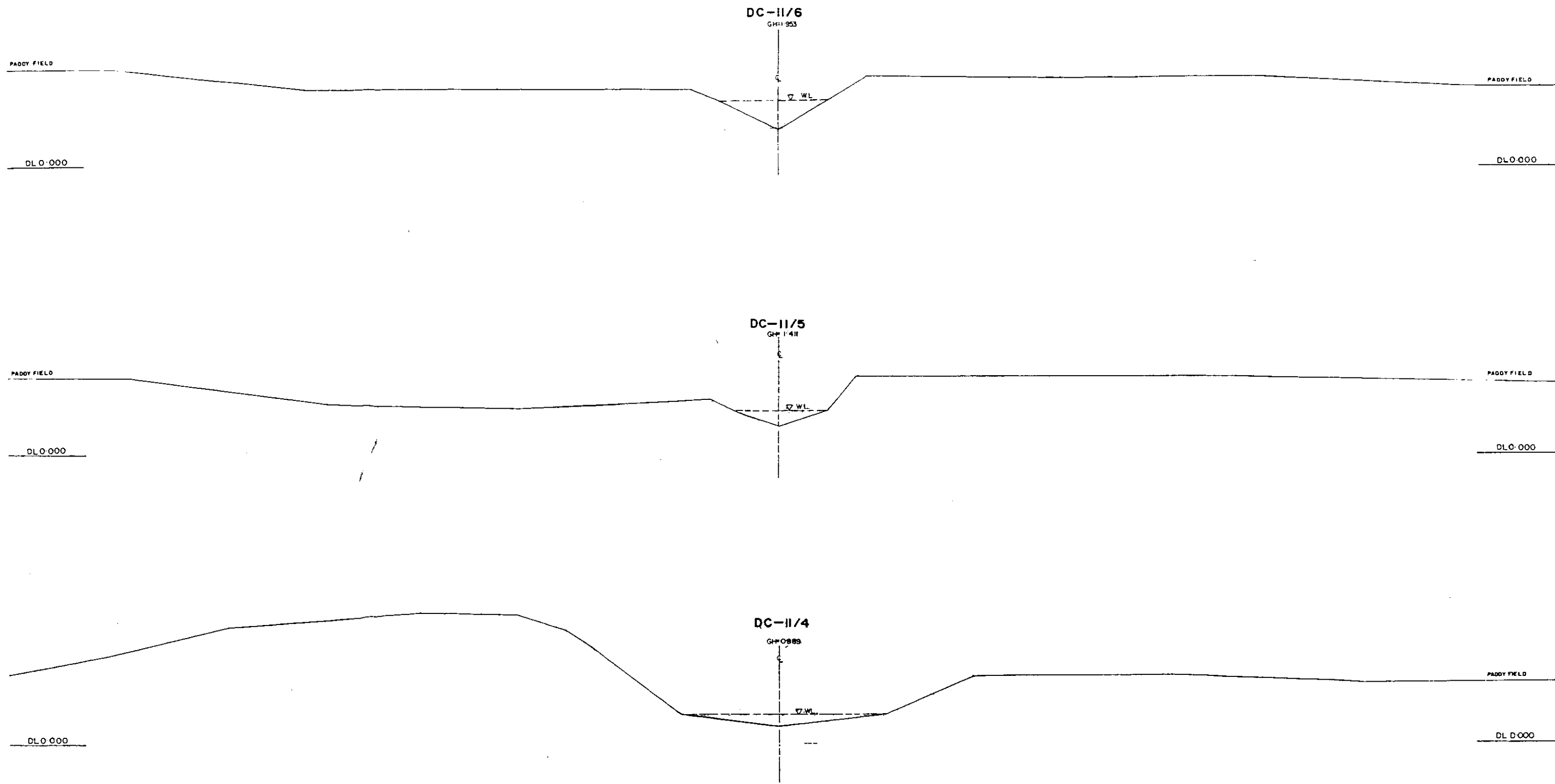
LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM



*U/R FACING TO UP STREAM

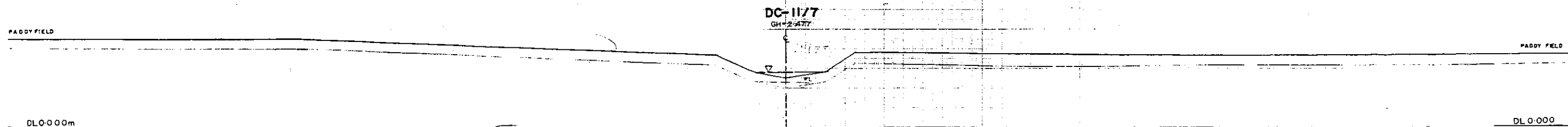
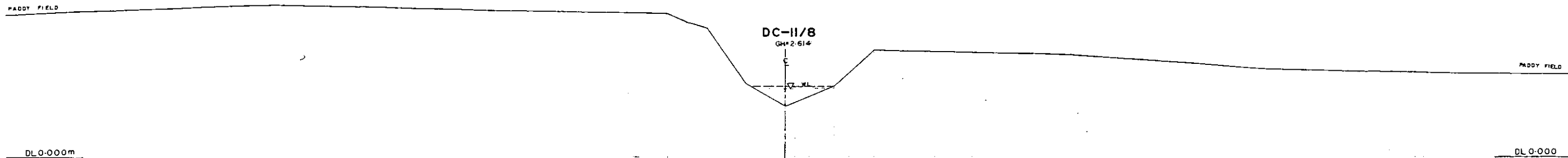
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-II	SCALE	1:120	
DWG NO.	KG - C31	DATE	MARCH 1991
JAPAN INTERNATIONAL CO-OPERATION AGENCY			

280



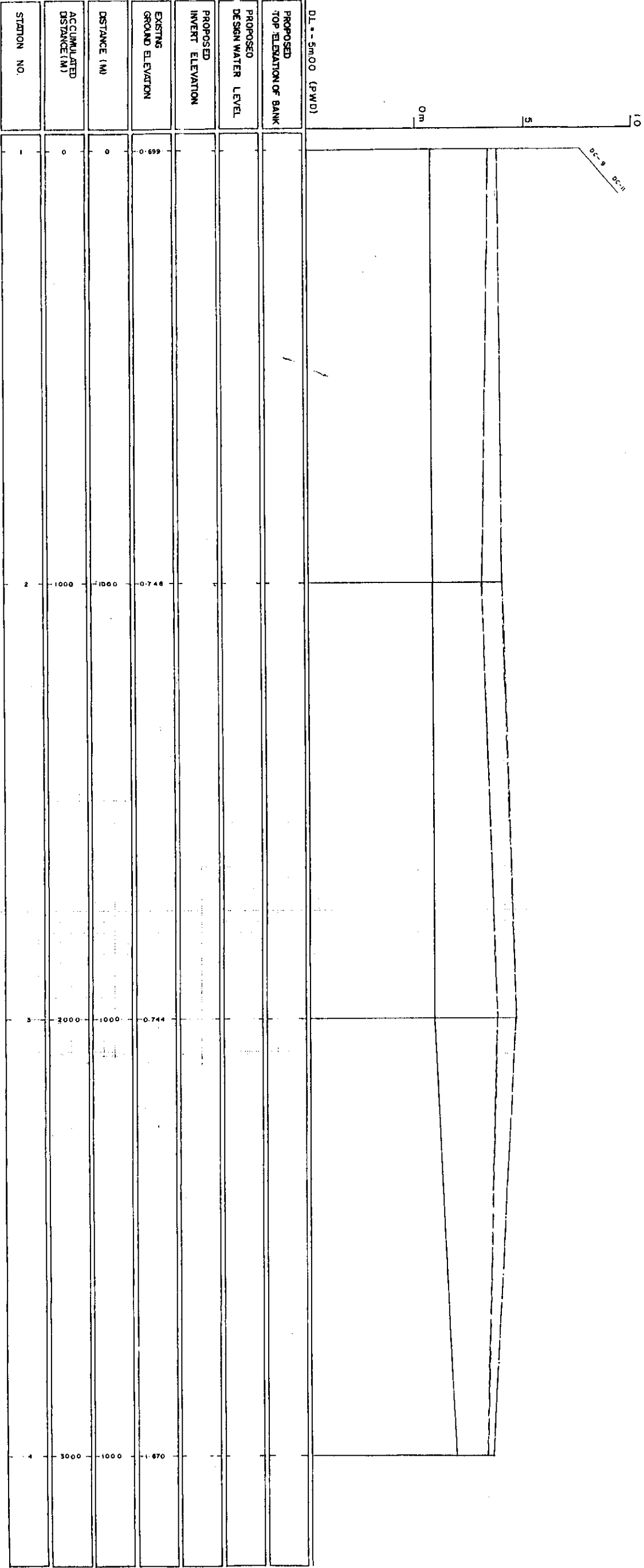
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC- II		SCALE	N=1:200 V=1:100
DWG. NO.	KG - C32	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



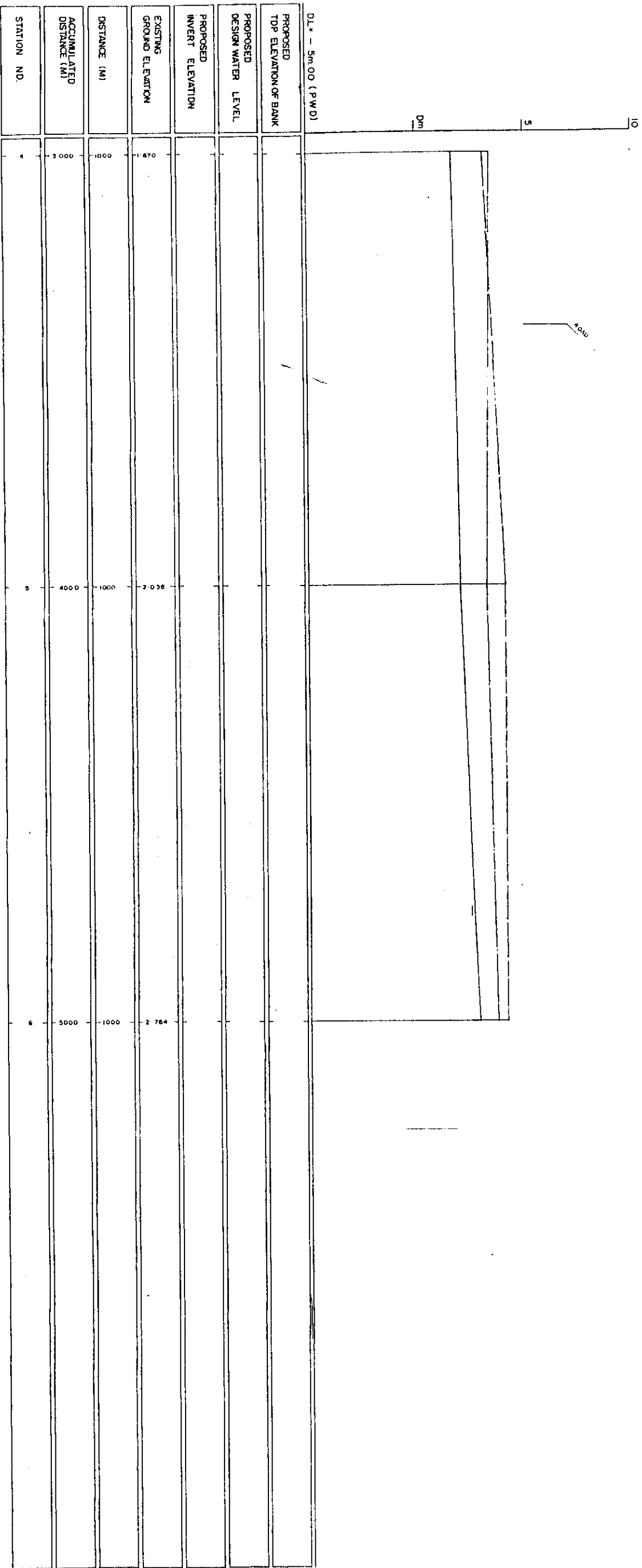
...L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-II	SCALE	H=1:200 V=1:300	
DWG. NO.	KG-C33	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



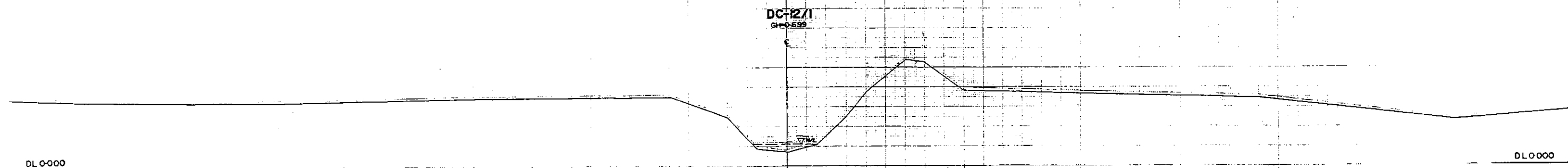
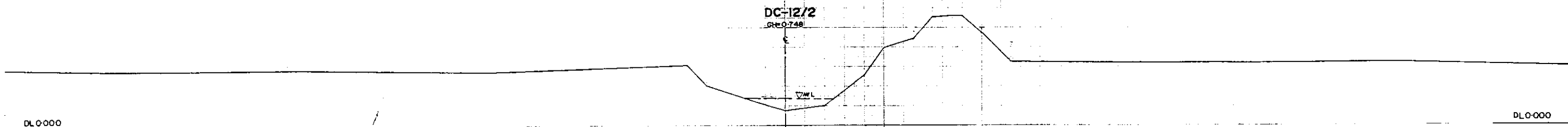
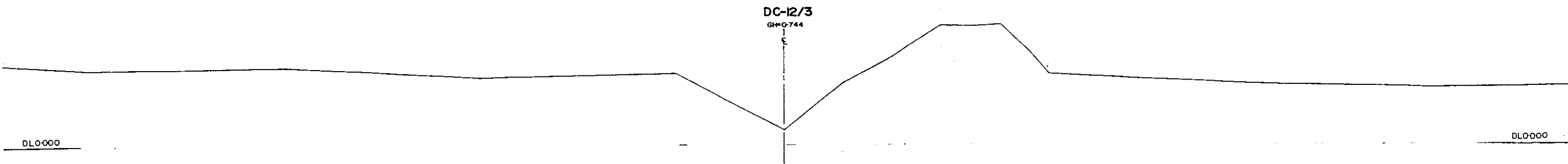
LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TO UP STREAM

272



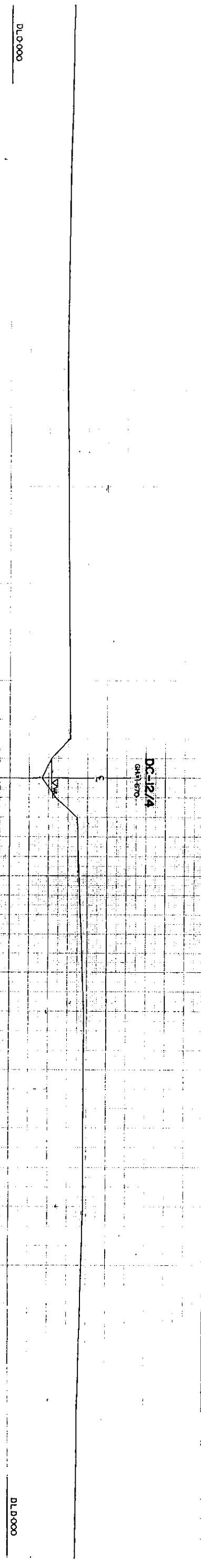
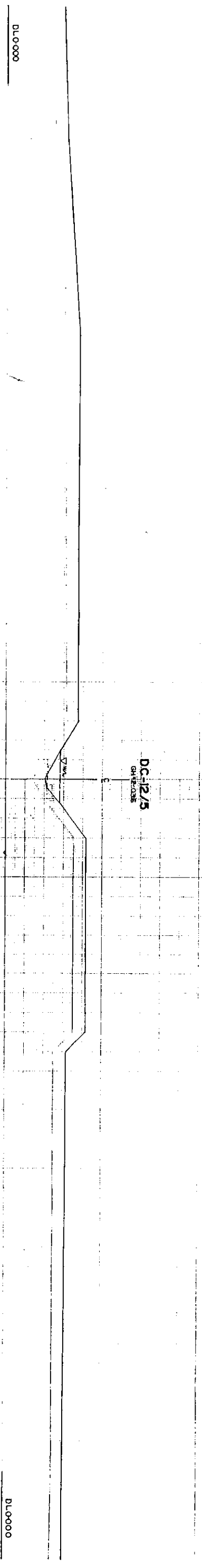
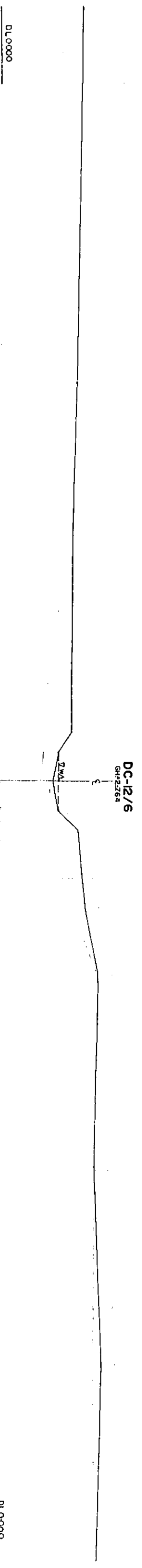
LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TO UP STREAM

276



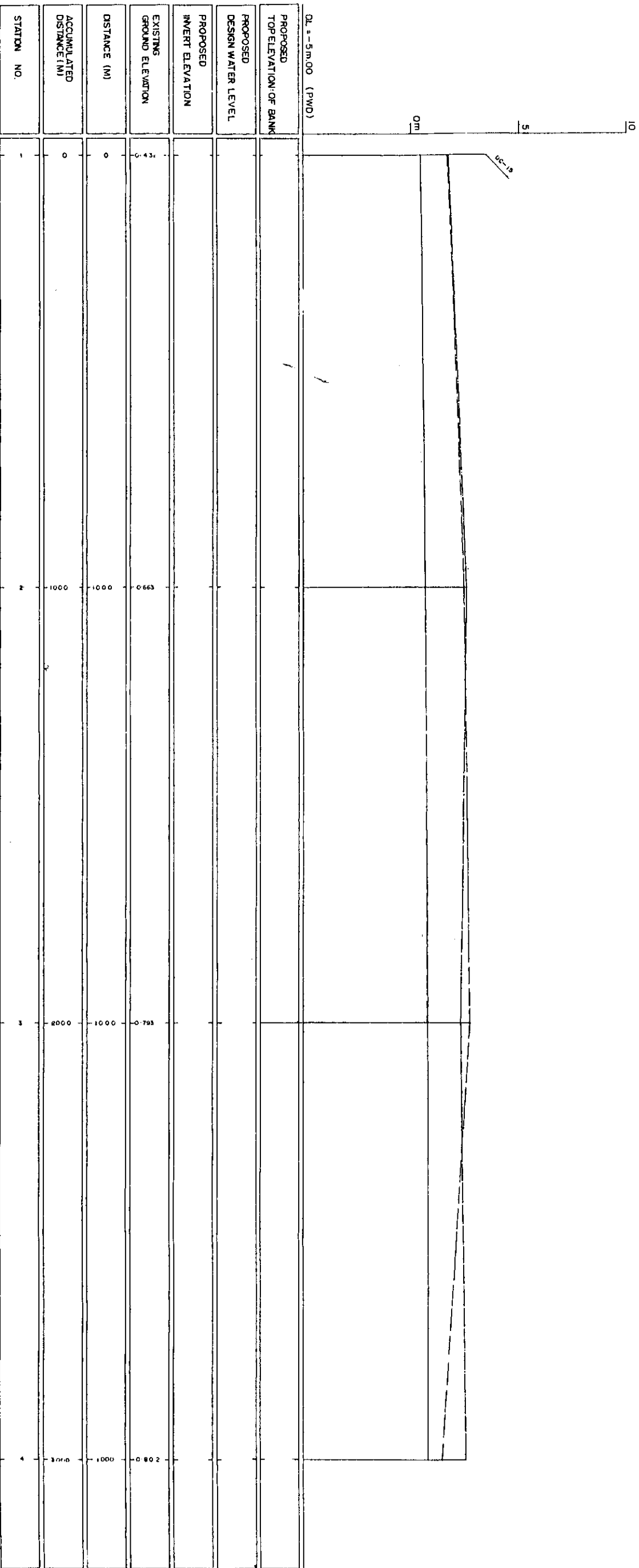
1/2 R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN "DHAKA" METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-12		SCALE	H=1:200 V=1:300
DWG. NO.	KG-C34	DATE	March, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



GREATER DHAKA PROTECTION PROJECT			
STUDY IN DHAKA METROPOLITAN AREA 1			
BANGLADESH FLOOD ACTION PLAN NO.9A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-12	SCALE	1:50,000	
DWG. NO.	KG C35	DATE	MARCH 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

228



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE -
* L/R FACING TO UP STREAM

DC-13/4
GH+0.802

DL+0.00m

DL+0.00m

DC-13/3
GH+0.798

DL+0.00m

DL+0.00m

DC-13/2
GH+0.663

DL+0.00m

DL+0.00m

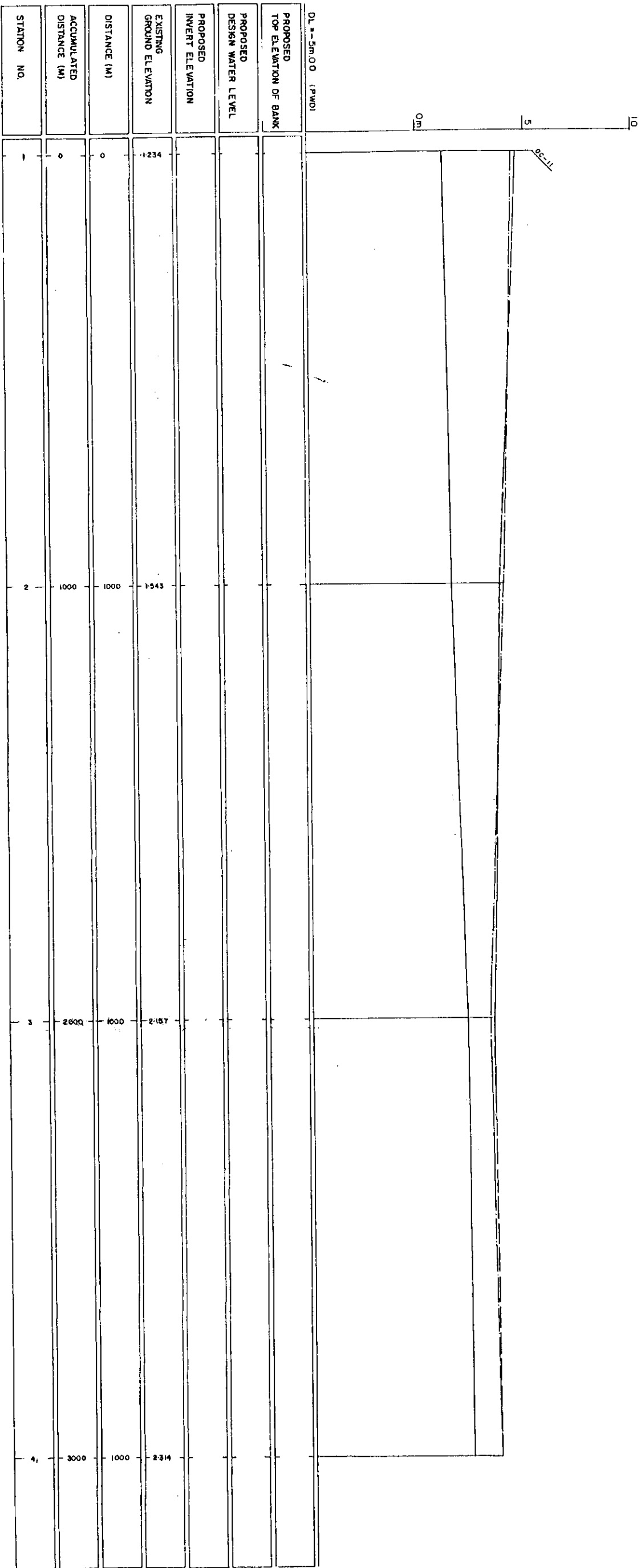
DC-13/1
GH+0.432

DL+0.00m

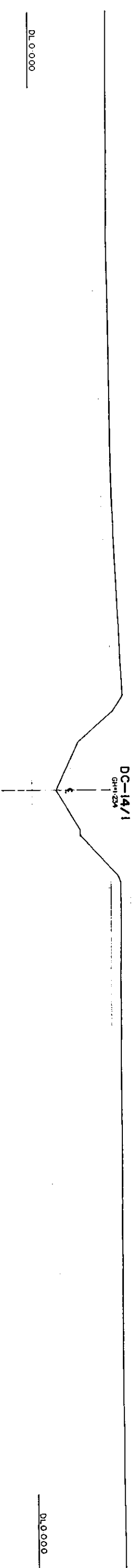
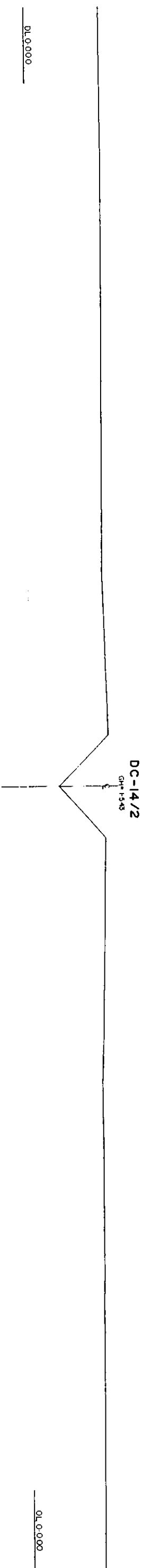
DL+0.00m

* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
DC-13	SCALE	1:1000	
DWG NO	KG C36	DATE	MARCH 1991
JAPAN INTERNATIONAL CO-OPERATION AGENCY			



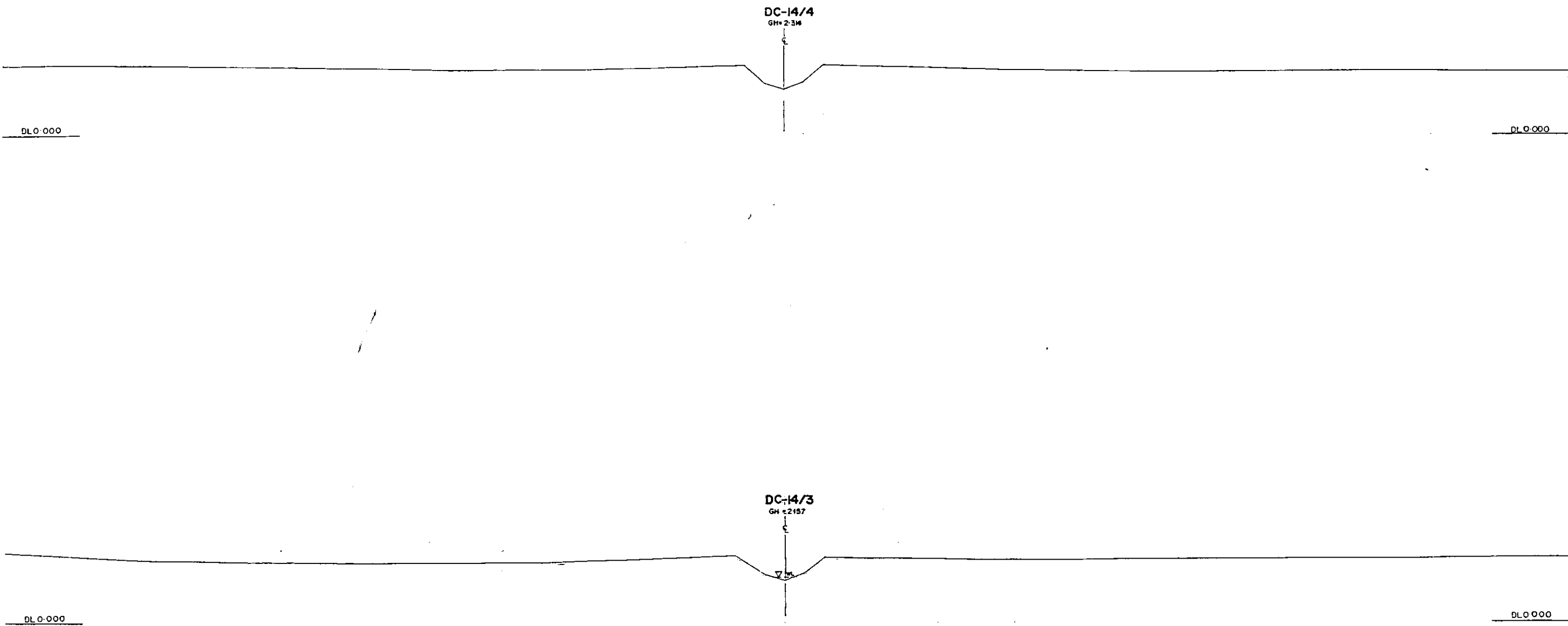
LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R PACING UP STREAM



U/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
STUDY IN DHAKA METROPOLITAN AREA I			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DWG. NO.	KG	C37	DATE
			March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

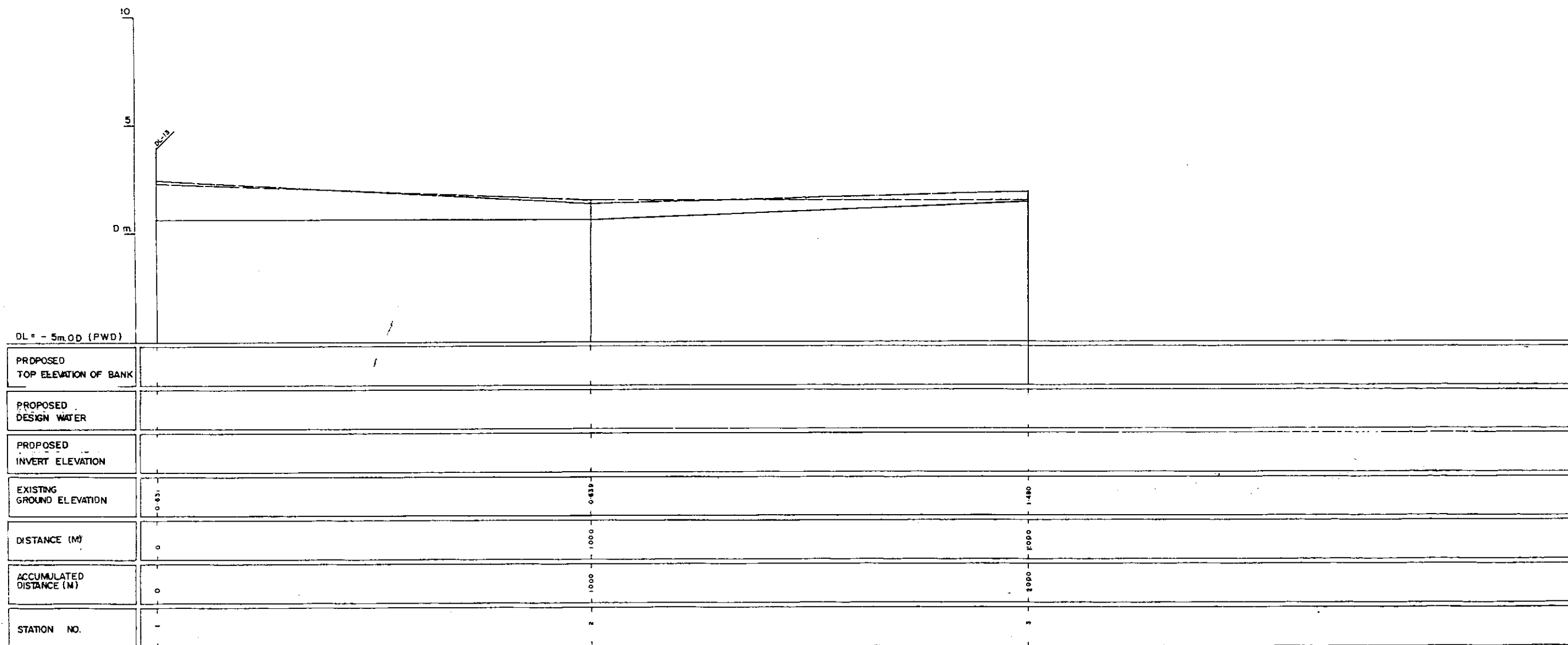
১১২



*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-14	SCALE	H=1200	V=1000
DWG.NO. KG C38	DATE	March	1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

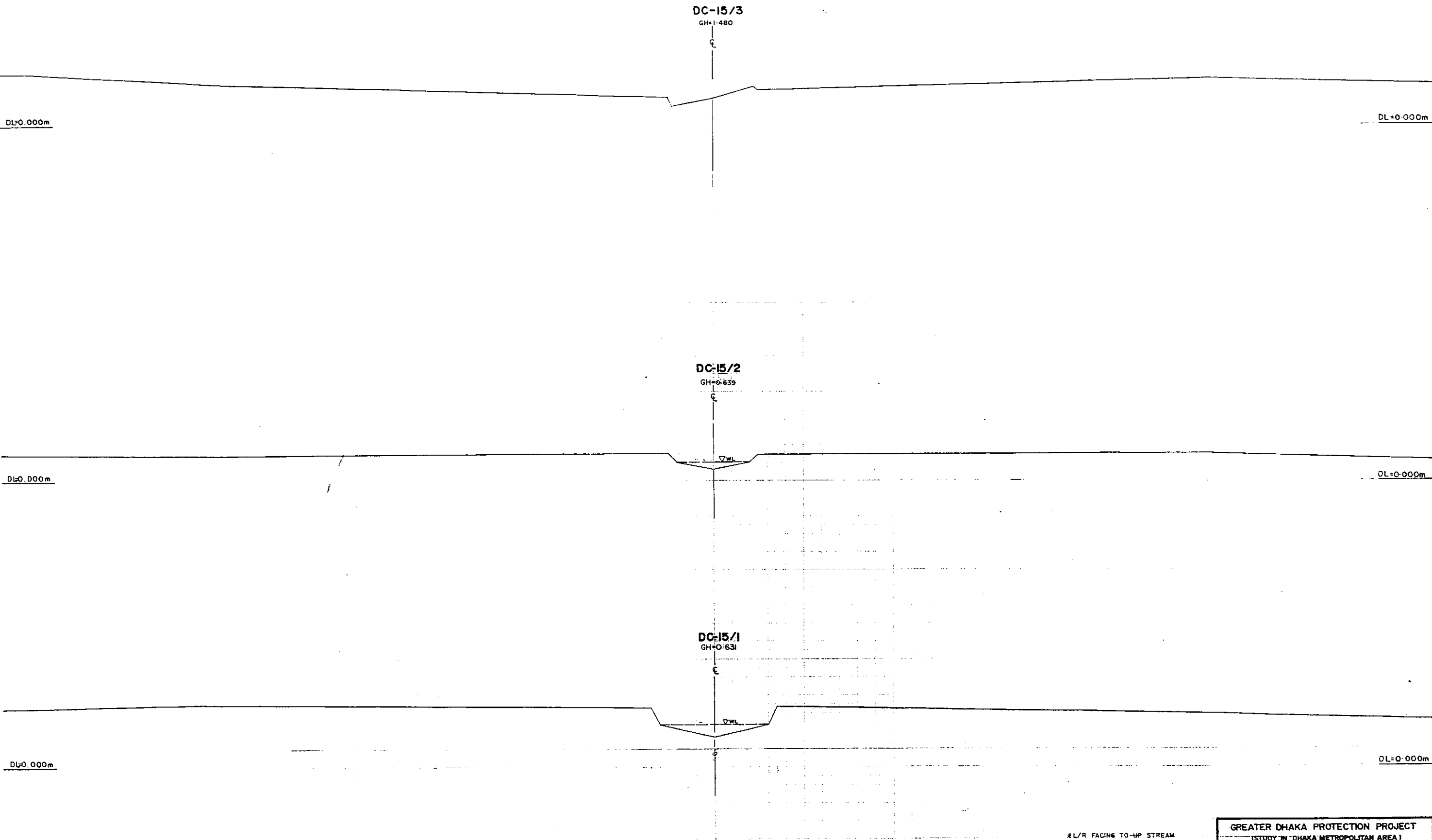
228



LEGEND
EXISTING LEFTGROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R. FACING TO UP STREAM

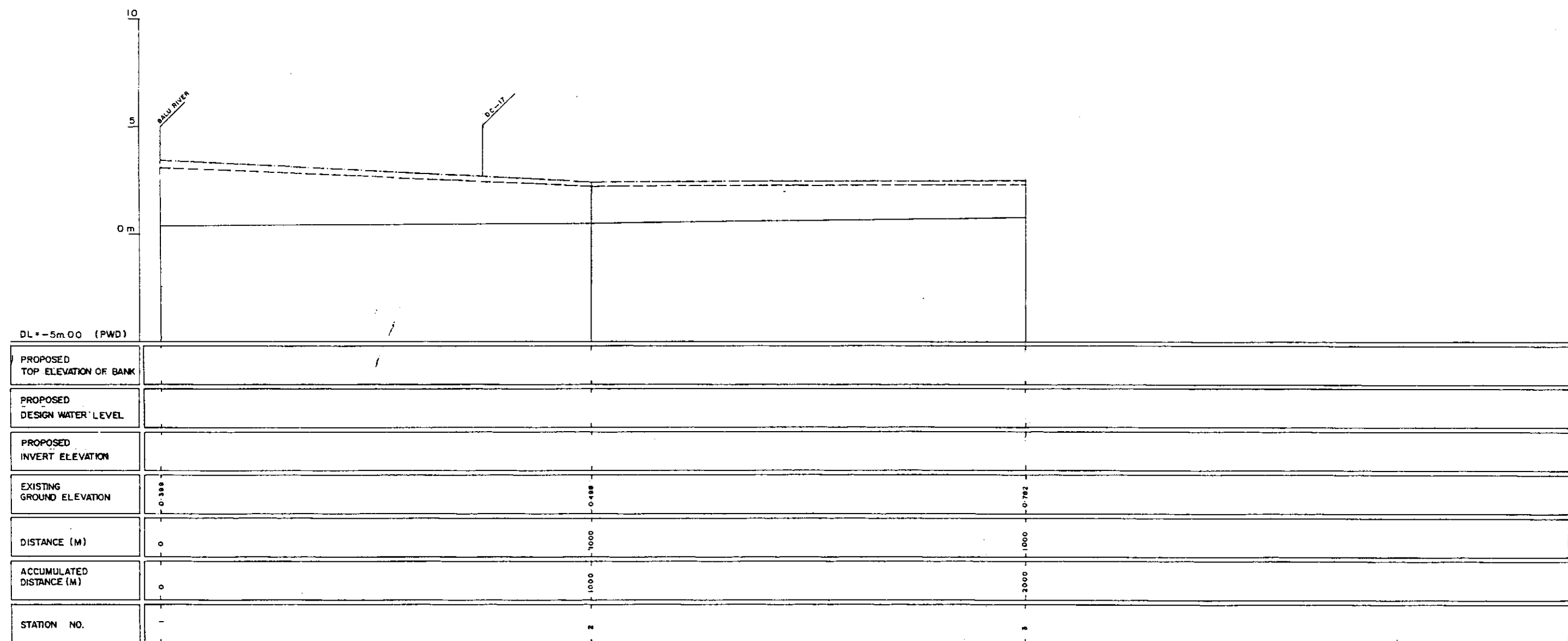
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-15		SCALE	1:5000 V.11100
DWG.NO.	KG L.34	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

22



GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-15		SCALE	H=1:200 V=1:100
DWG NO.	KG: C39	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

22



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-16		SCALE	H:1:5000 V:1:100
DWGNO.	KG L 35	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

226

DC-16/3

GH=0.782

ε

▽WL

DL=0.000m

DL=0.00m

DC-16/2

GH=0.398

ε

▽WL

DL=0.000m

DL=0.00m

DC-16/1

GH=0.398

ε

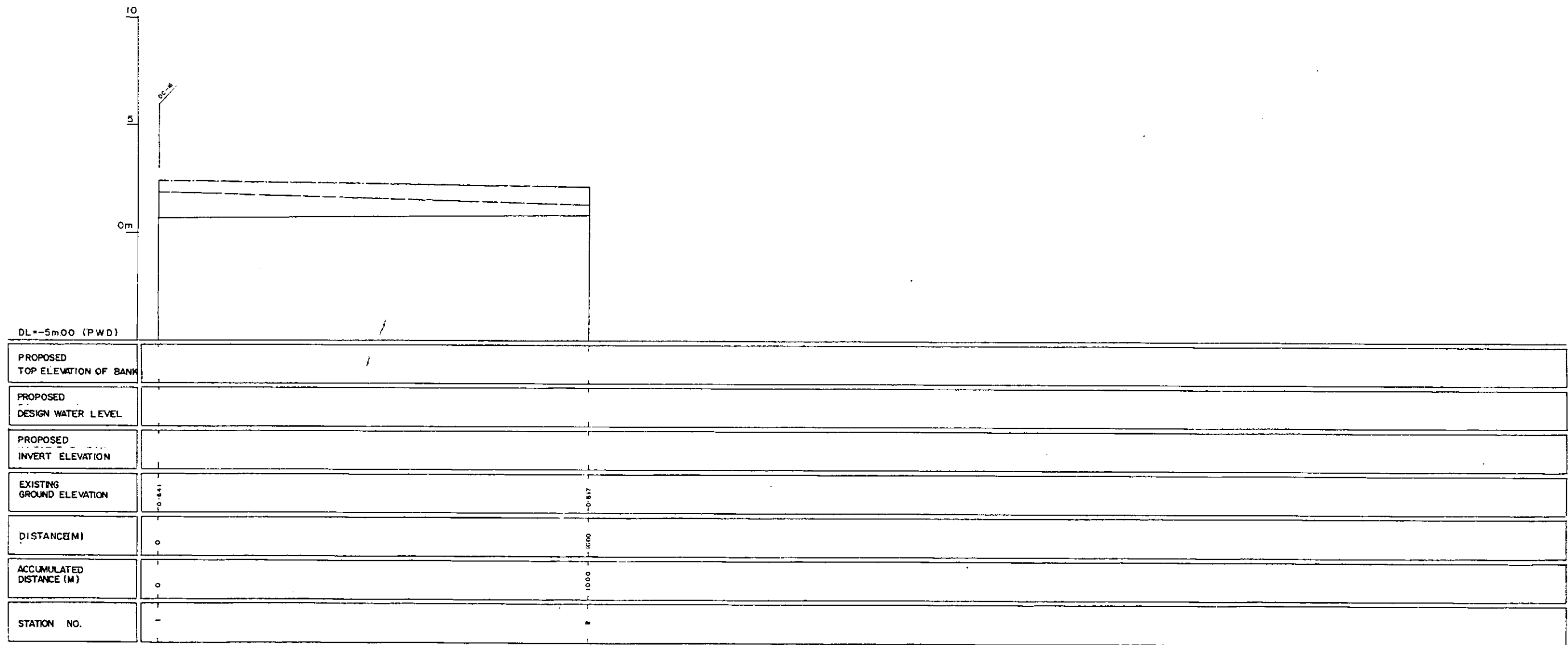
▽WL

DL=0.000m

DL=0.00m

L/R FACING TO UP-STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-16		SCALE	H=1200 V=1700
DWG. NO.	CKG: G.40	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
DC-17	SCALE	H=1:5000 V=1:100	
DWG. NO. KG L 36	DATE	March, 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			

DL+0.00m



DL+0.00m

DC-17/2
GMP0817

Δ W.L. 0.11

DC-17/1
GMP0801

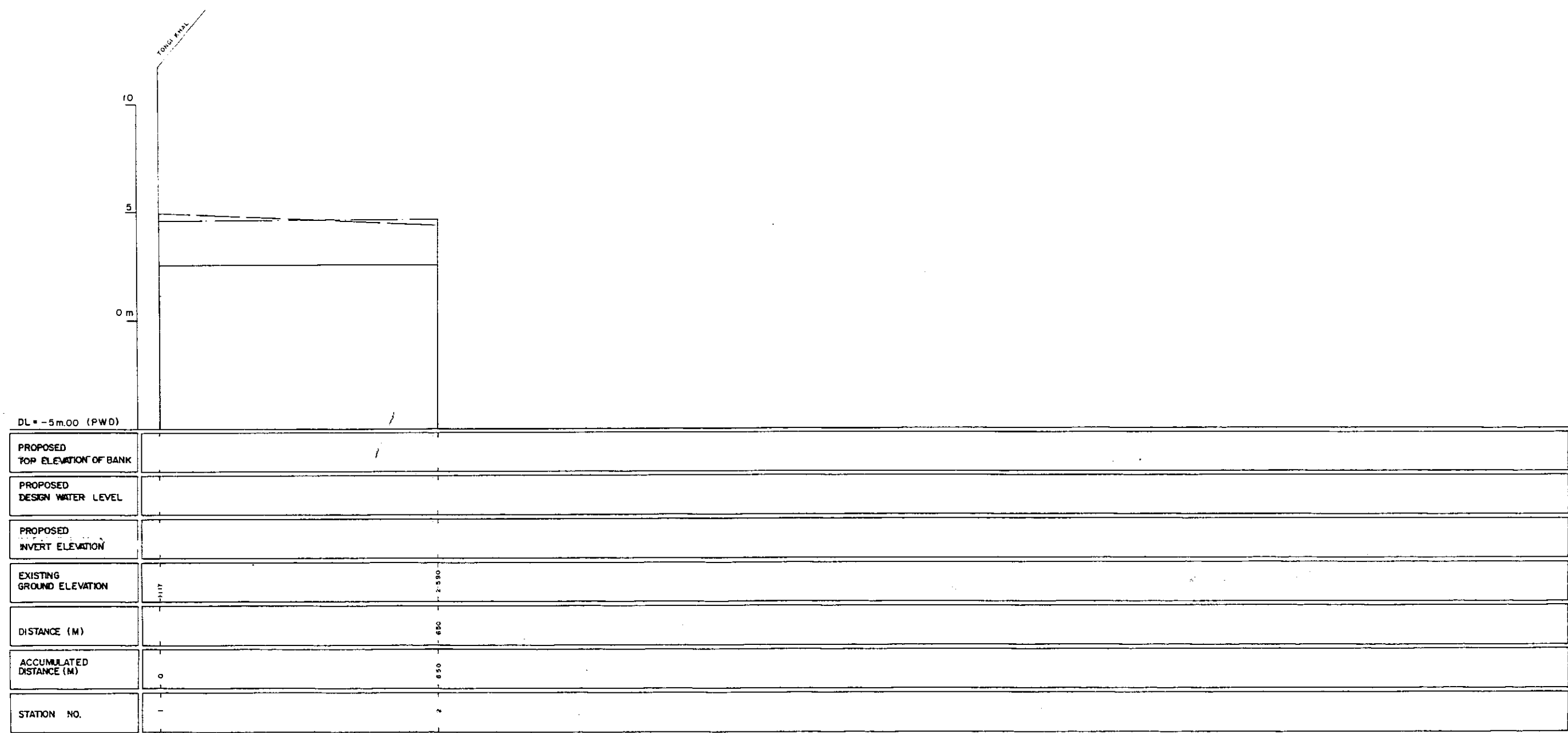
Δ W.L.

DL+0.00m

DL+0.00m

* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
STUDY IN DHAKA METROPOLITAN AREA			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-17	SCALE	1:1000	
DWG NO.	KG-041	DATE	MARCH, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.8A

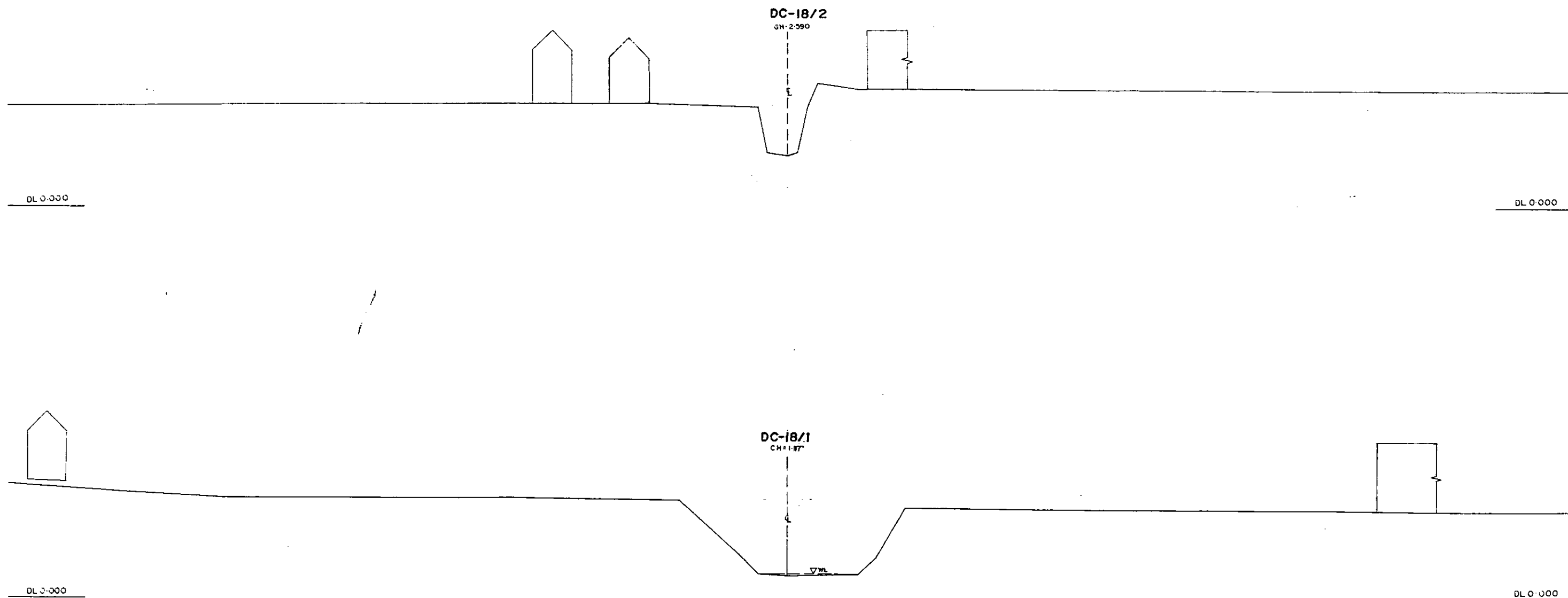
DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

DC-18

DWG.NO. KG L37 DATE March 1991

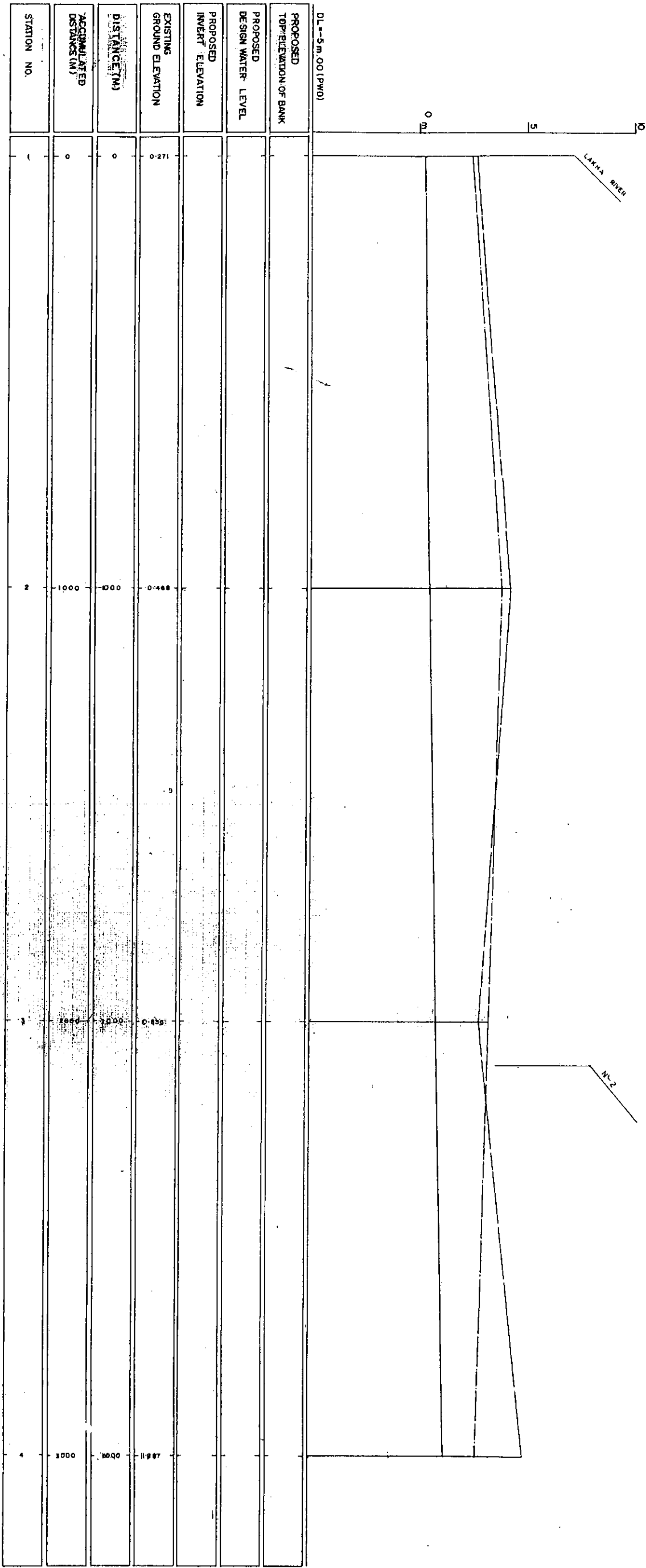
SCALE 1:5000
V.I. 100

JAPAN INTERNATIONAL COOPERATION AGENCY

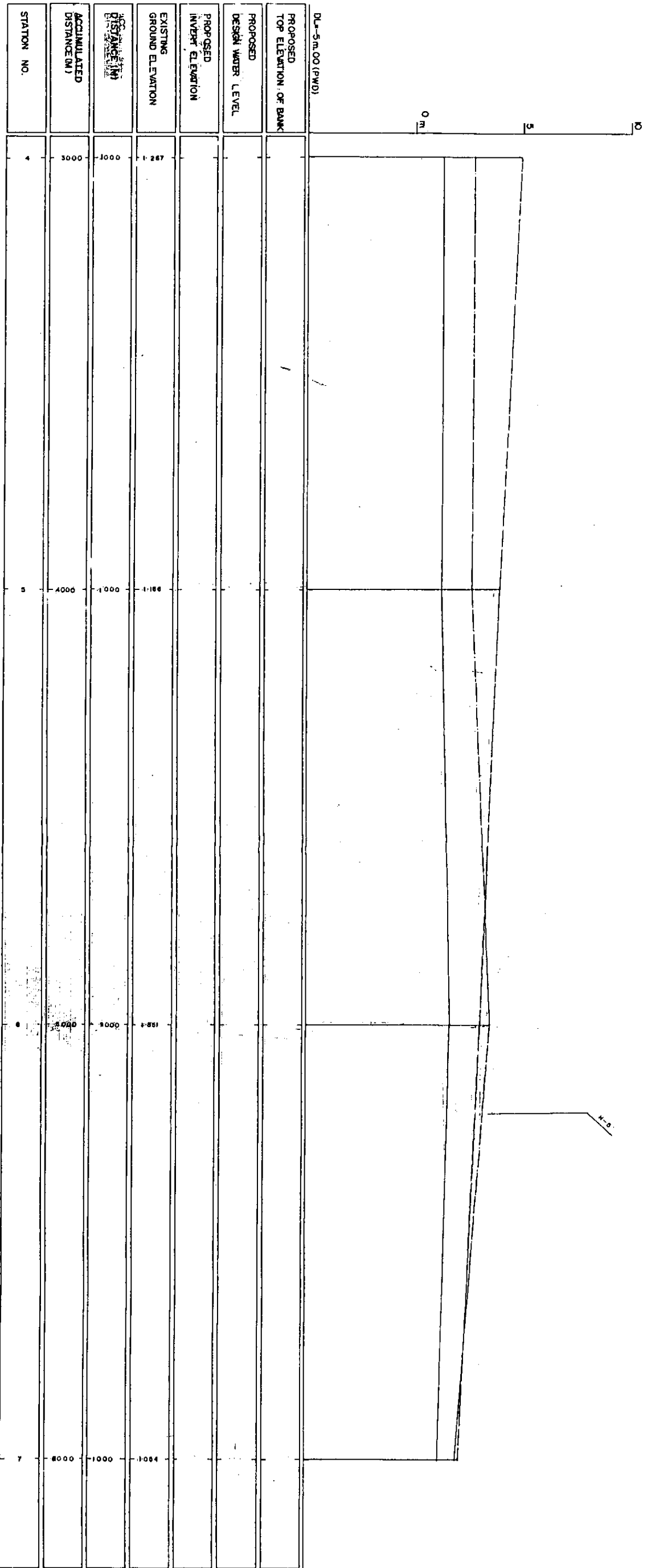


* L/R FACING TO UP STREAM

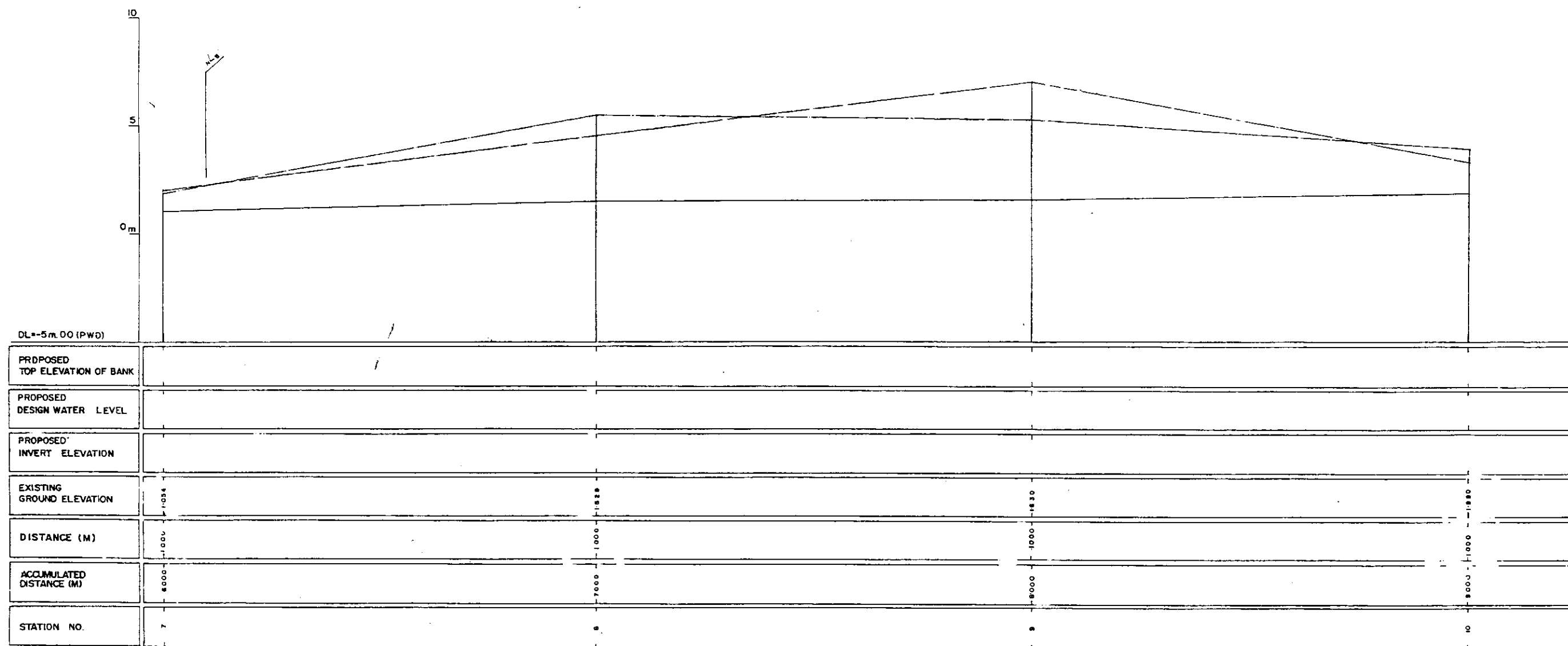
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DC-18		SCALE	1/100
DWG NO	KG C42	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			



LEGEND:
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TO-UP STREAM

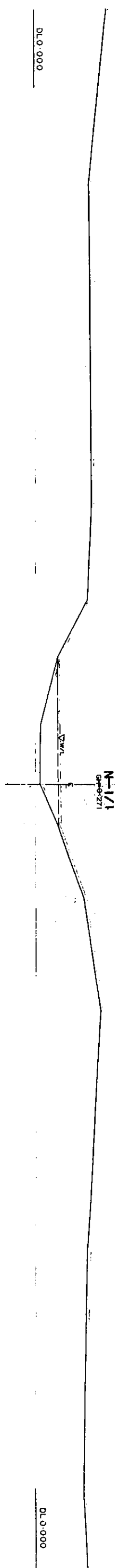
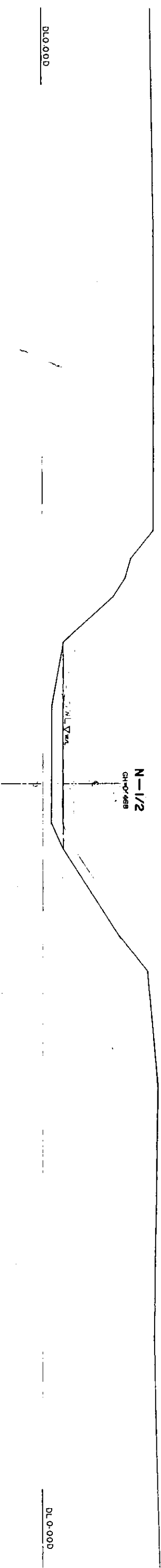
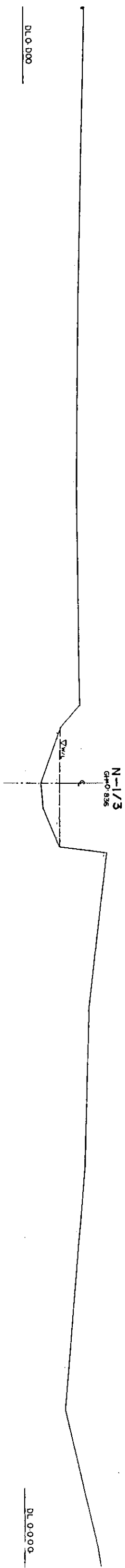


LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
L/R FACING TOWARD STREAM



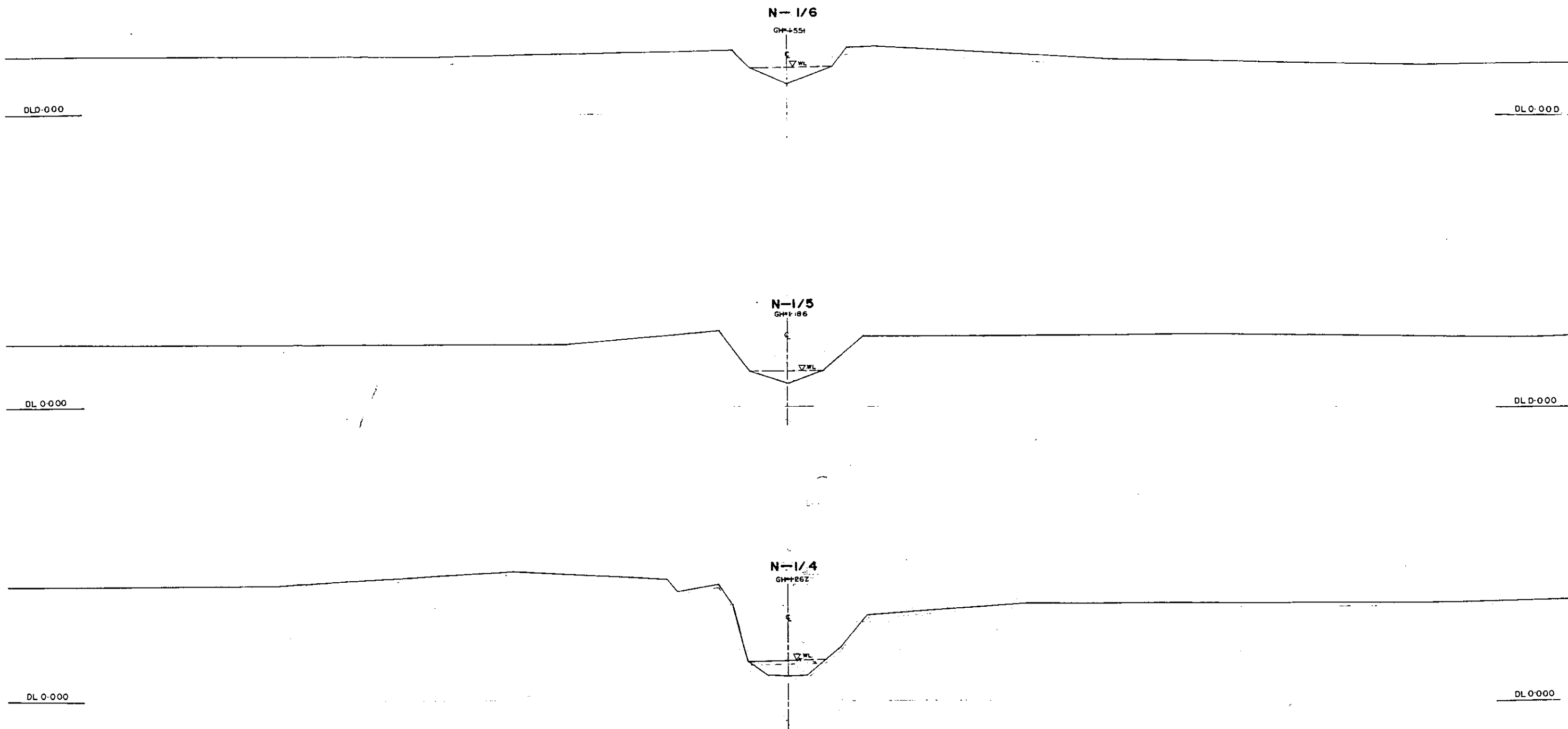
LEGEND
 EXISTING LEFT GROUND LINE ———
 EXISTING RIGHT GROUND LINE ———
 EXISTING BOTTOM LINE ———
 * L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-1		SCALE	HYD. 5000 VS. 1.000
DWG NO.	KN L 3	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



* L/R FACING TO UPSTREAM

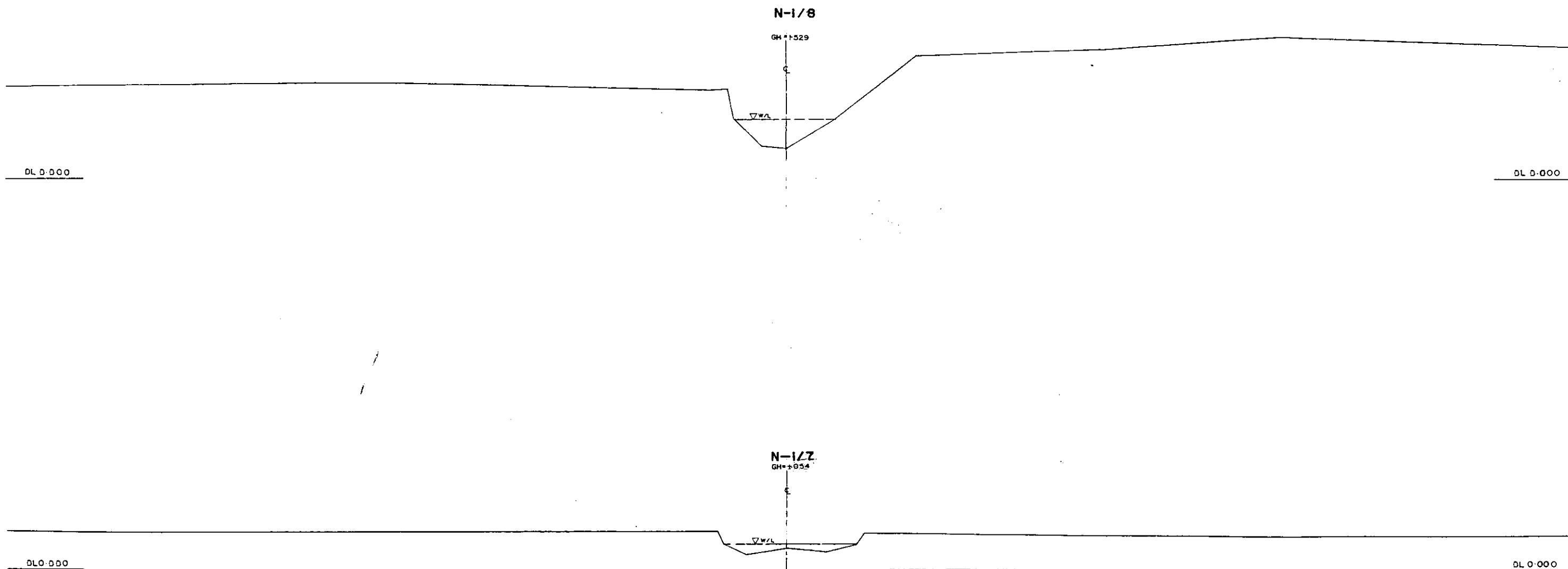
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-1	KN C1	SCALE	1:1000
DWG. NO.	KN C1	DATE	March, 1994
JAPAN INTERNATIONAL CO-OPERATION AGENCY			



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-1		SCALE	H=1:200 V=1:100
DWG. NO.	KN C2	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

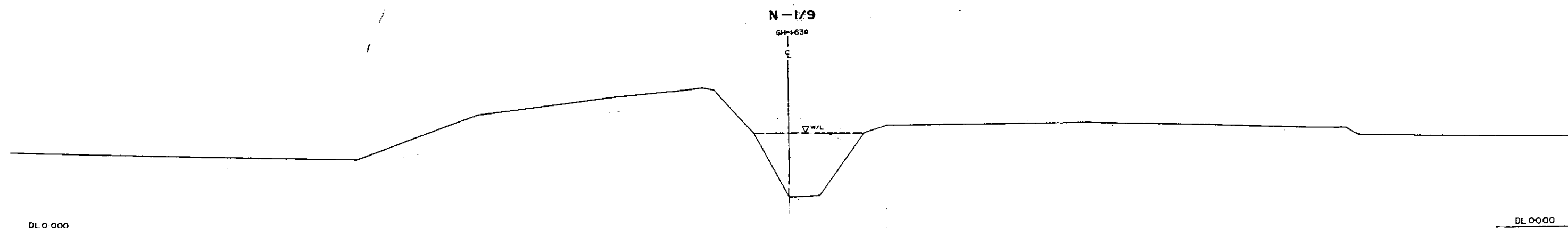
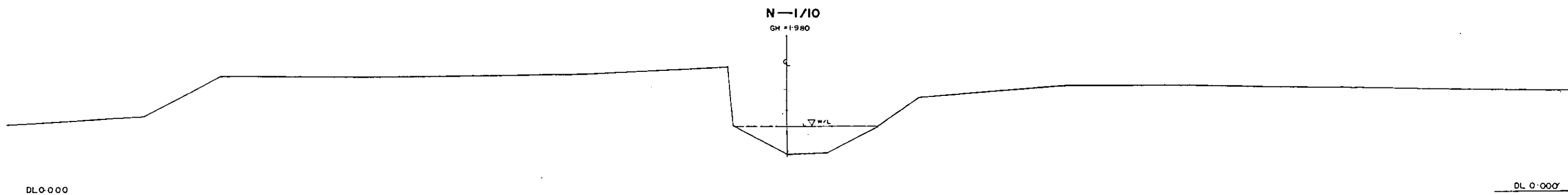
266



* L/R FACING TO UP STREAM

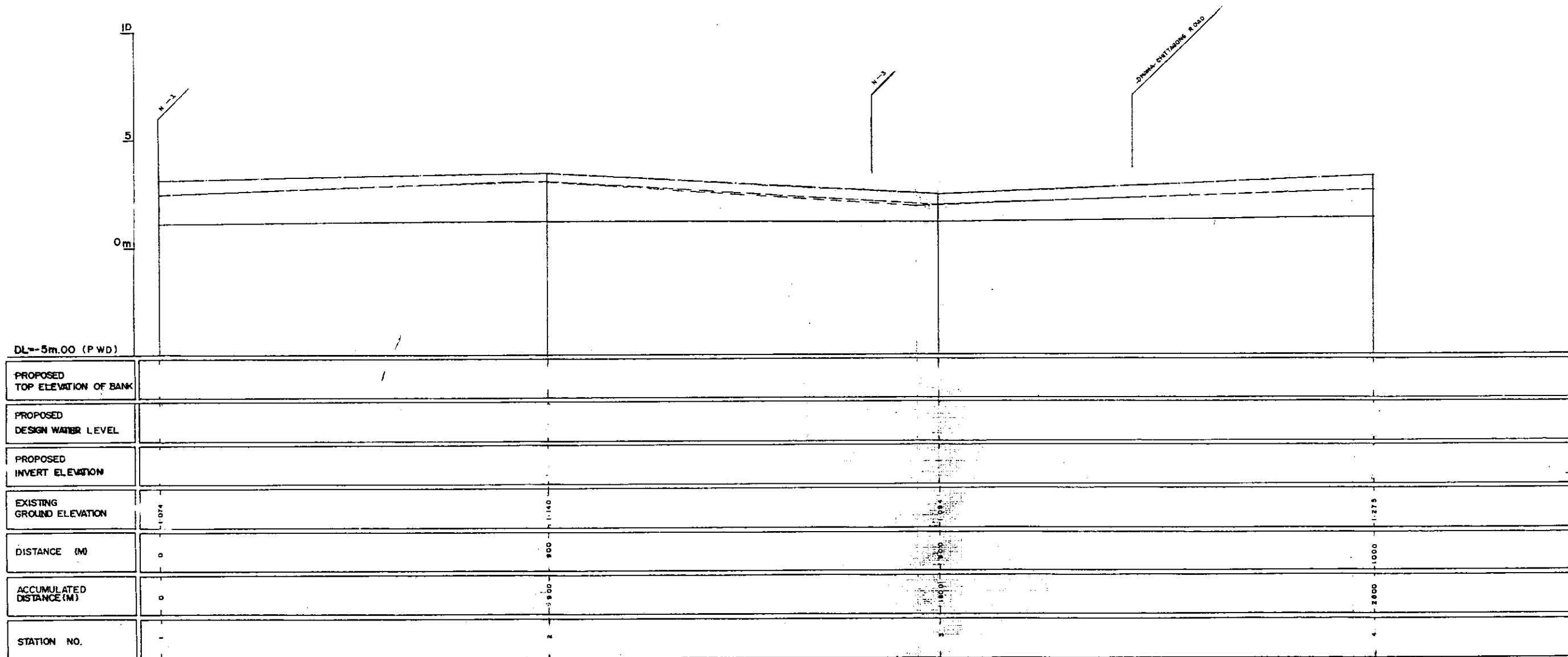
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-1		SCALE	N=1:200 V=1:100
DWG. NO.	KN C 3	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

268



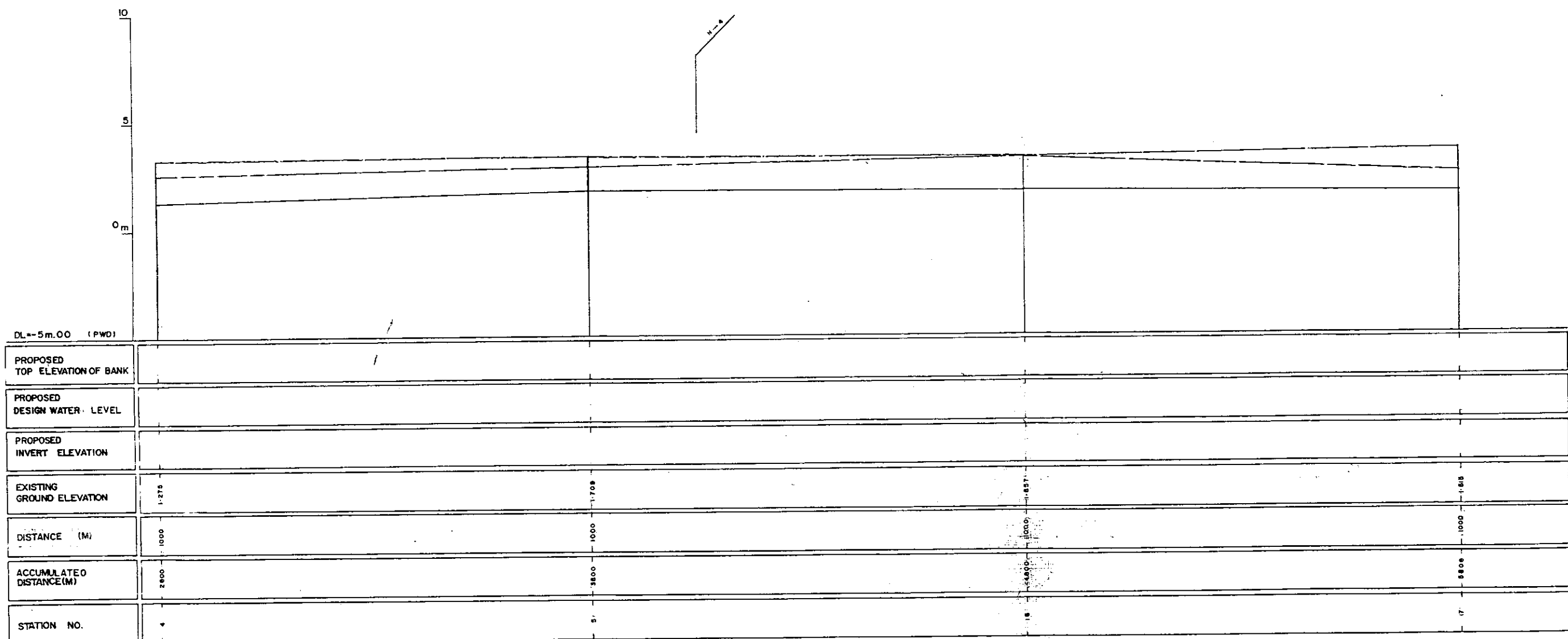
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GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-1		SCALE	H=1:200 V=1:100
DWG. NO.	KM/C4	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-2		SCALE	H=1:5000 V=1:100
DWG. NO.	KN-L 4	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND.
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.8A

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

N-2

SCALE

H=1:5000
V=1:100

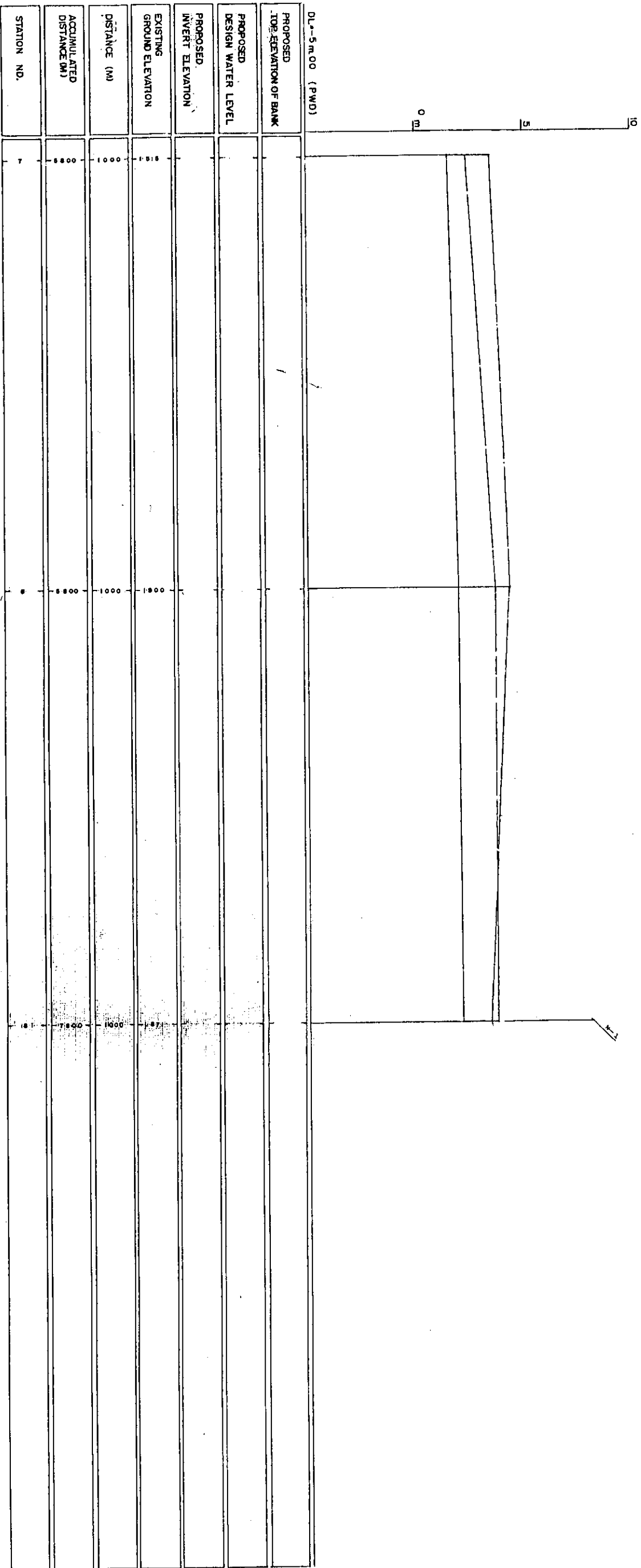
OWG. NO.

KN L 5

DATE

March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY



LEGEND

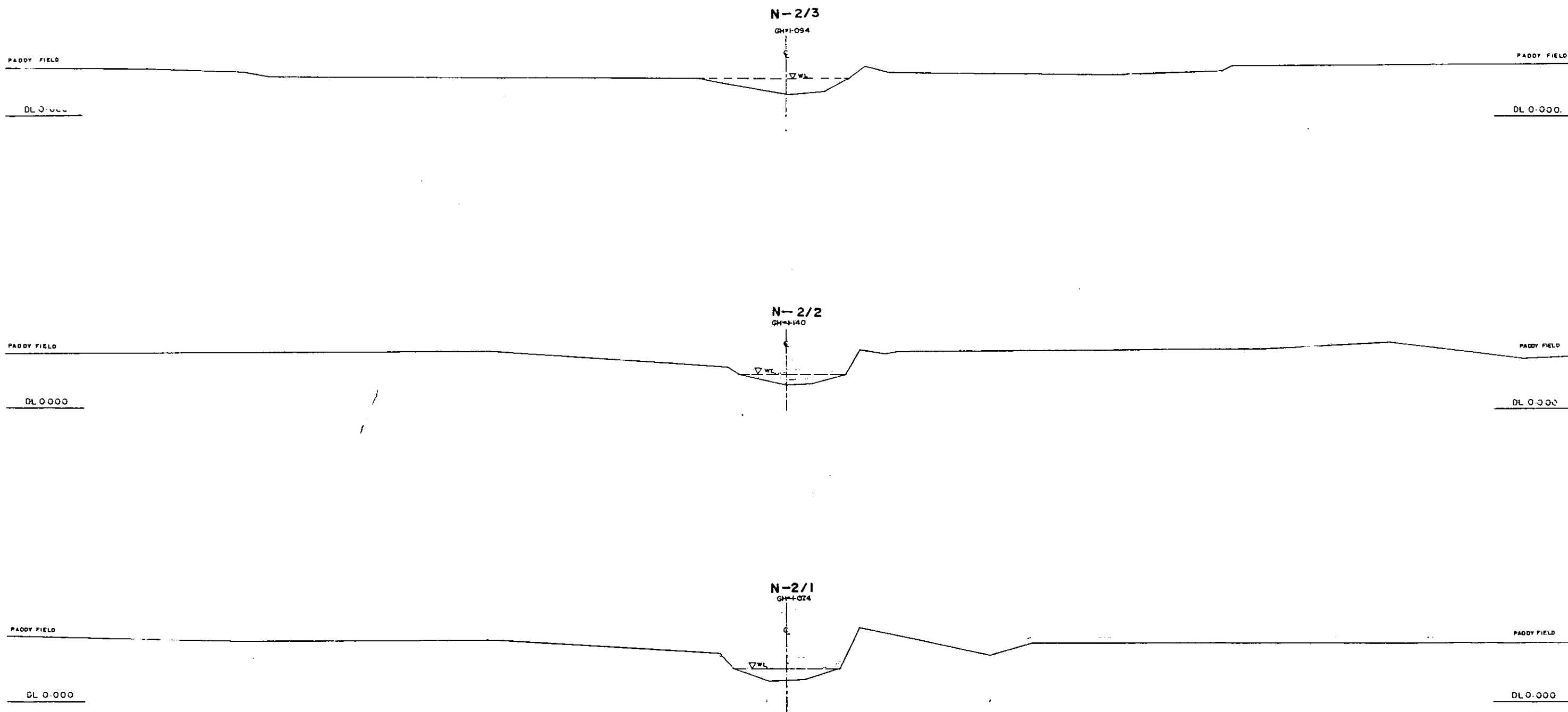
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EXISTING BOTTOM LINE - - - - -

* L/R FACING TO UP STREAM

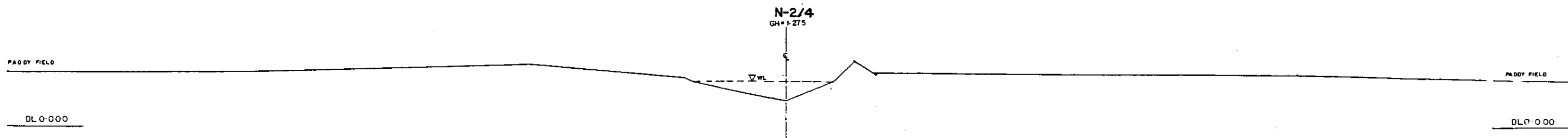
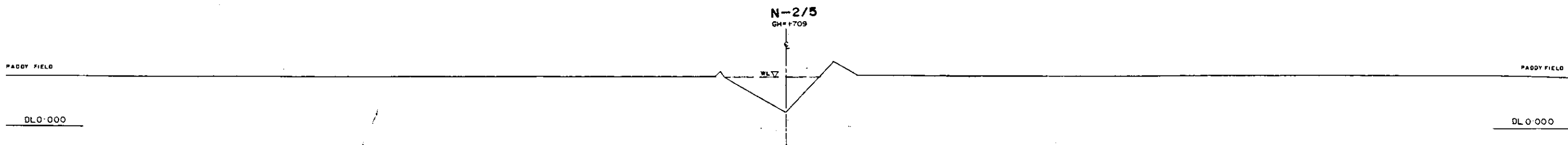
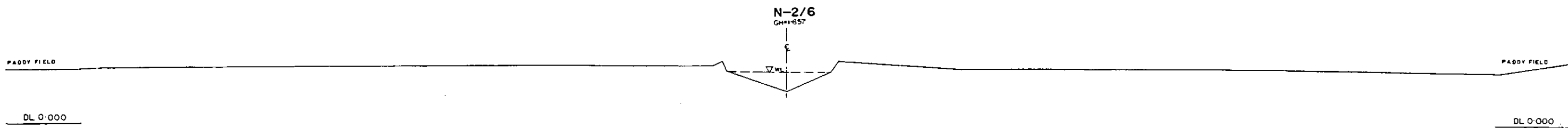
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* L/R FACING TO UP STREAM

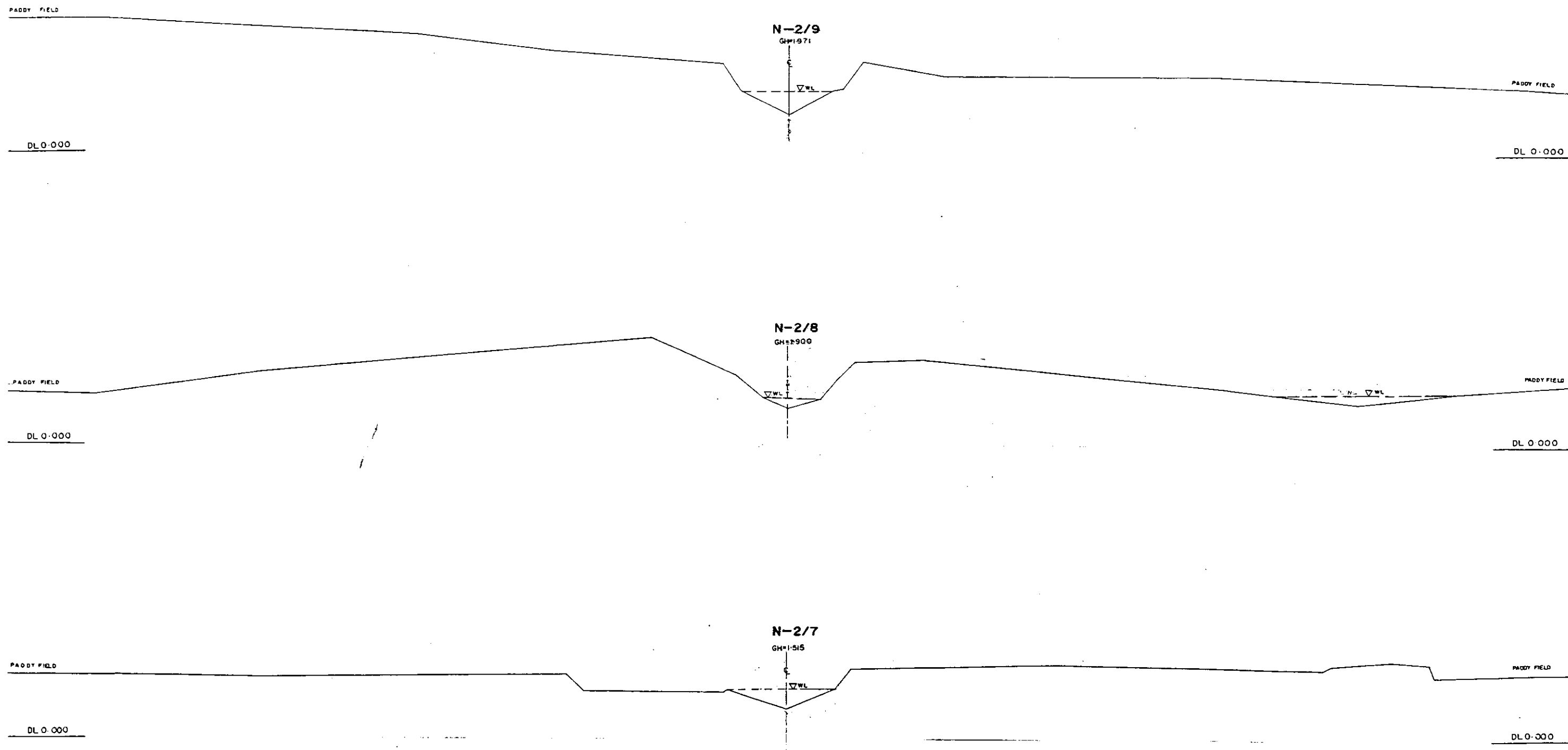
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(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-2		SCALE	H=1200 V=1:100
OWG. NO.	KN C5	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

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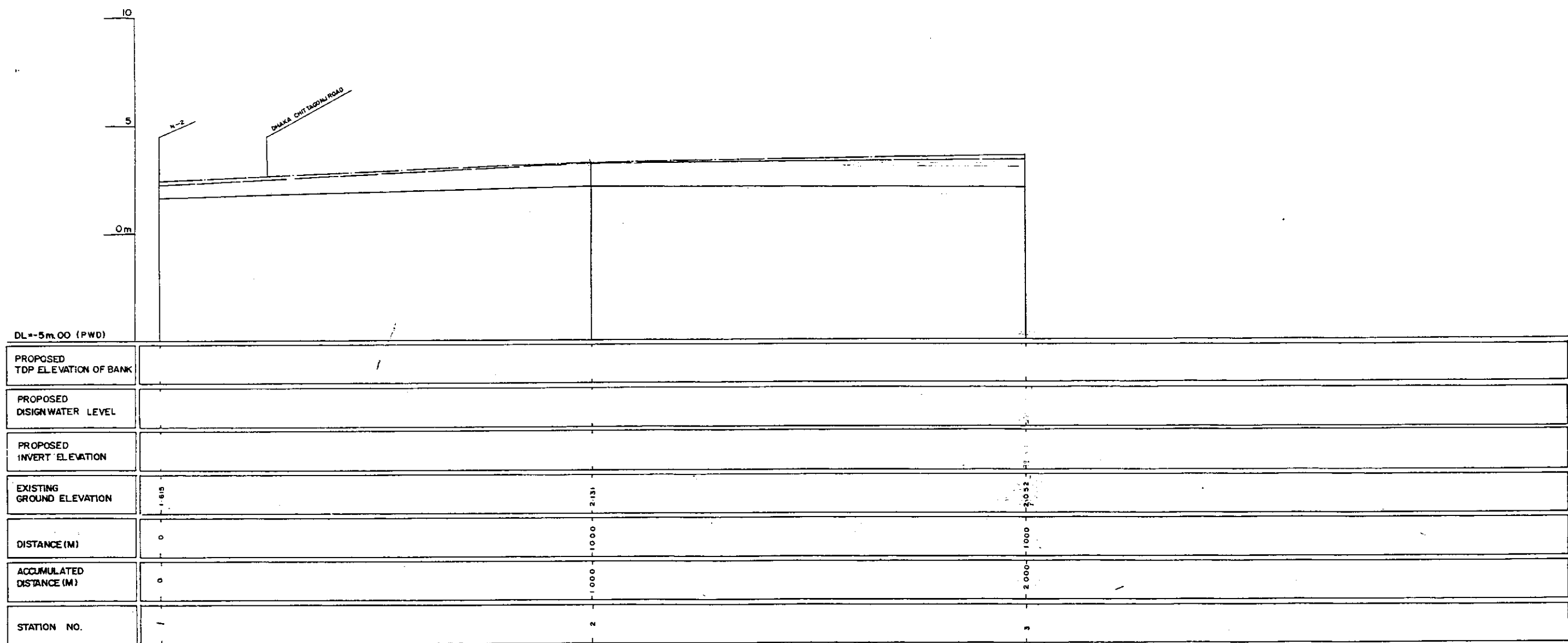
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
N-2		SCALE	N=1:200 V=1:100
DWG. NO.	KN C6	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



* L/R FACING TO UP STREAM

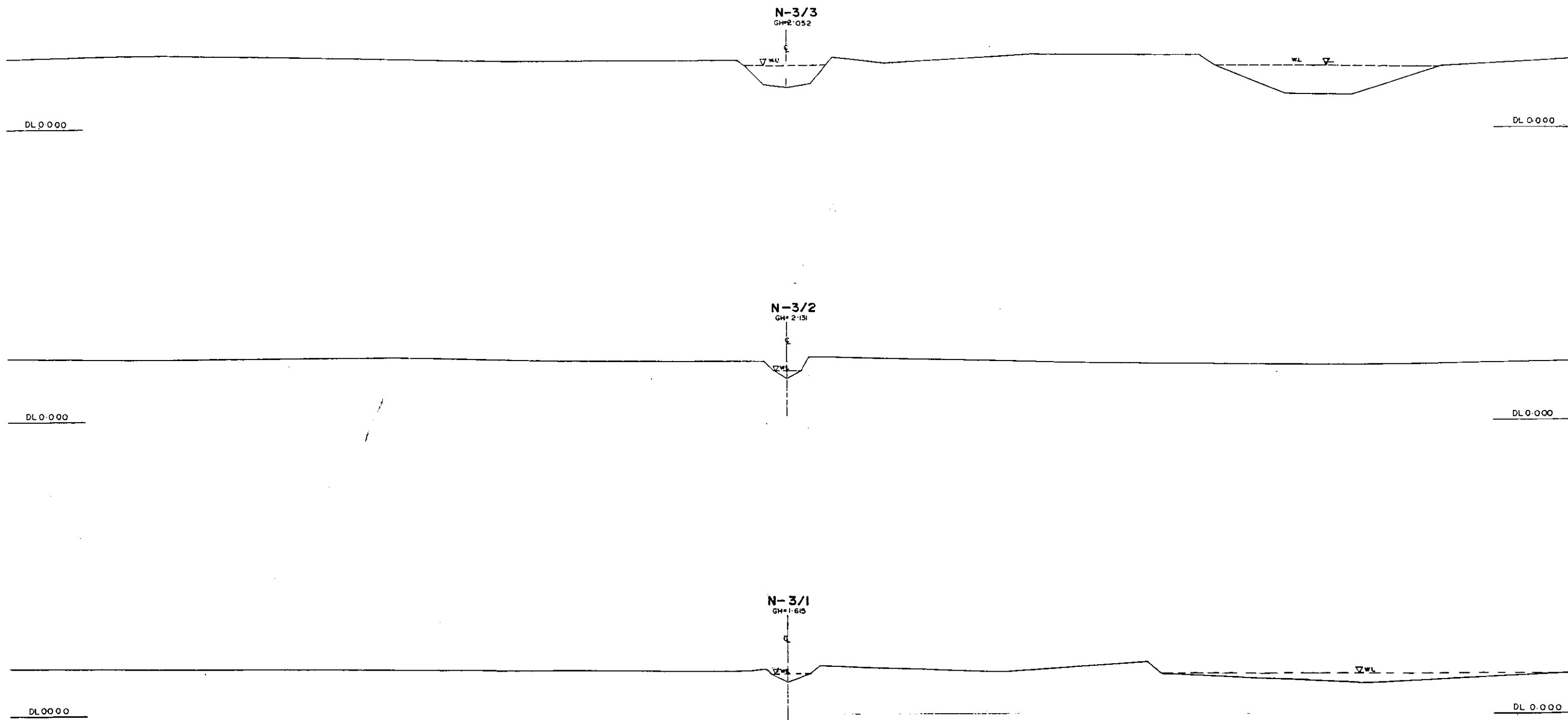
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-2		SCALE	N=1:200 V=1:100
DWG. NO.	KN C7	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
 EXISTING LEFT GROUND LINE
 EXISTING RIGHT GROUND LINE
 EXISTING BOTTOM LINE
 * L/R RACING TO UP STREAM

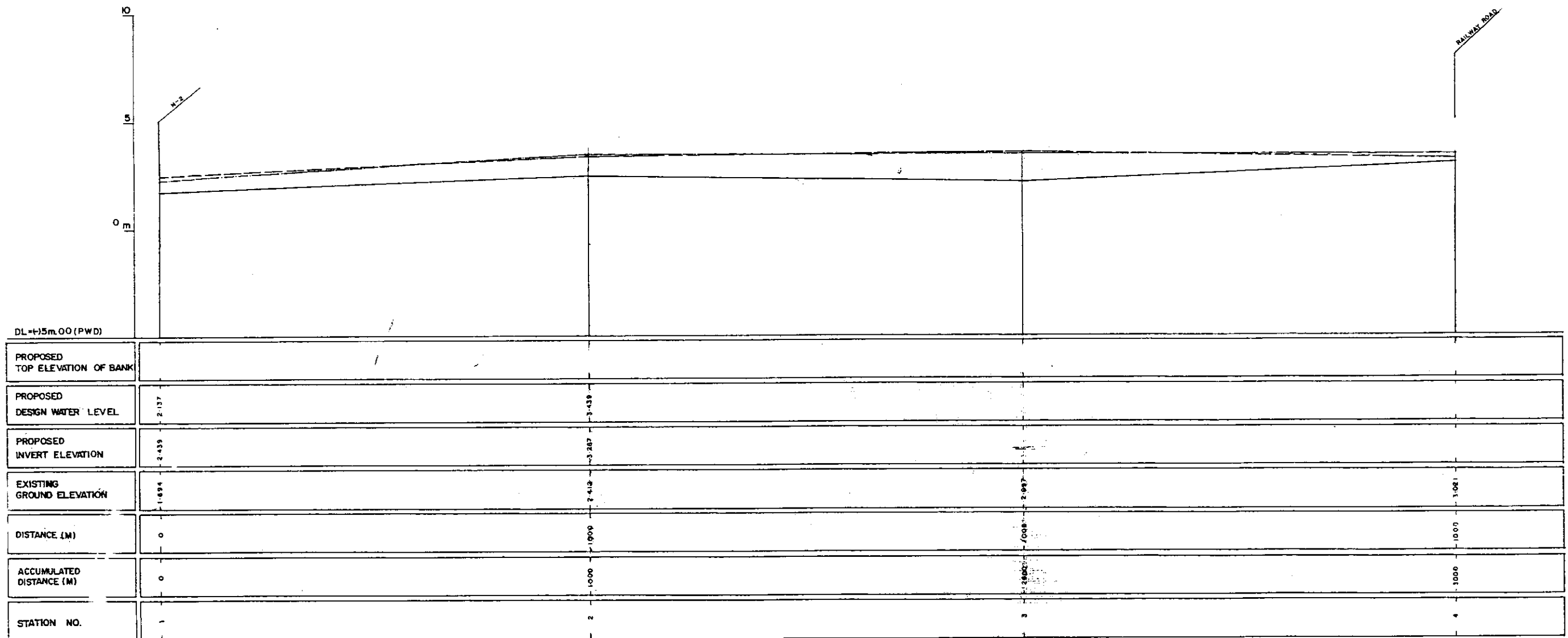
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
N-3		SCALE	H=1:5000 V=1:100
DWG. NO.	KN L7	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

282



*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-3		SCALE	1:200
OWG. NO.	KN C8	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.8A

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

N-4

SCALE

1m:5000
1/2"=1:1000

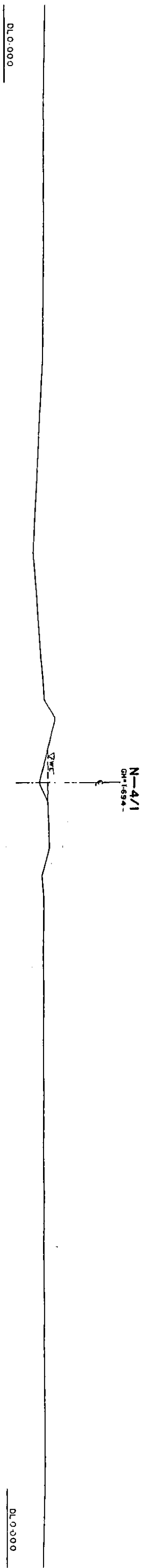
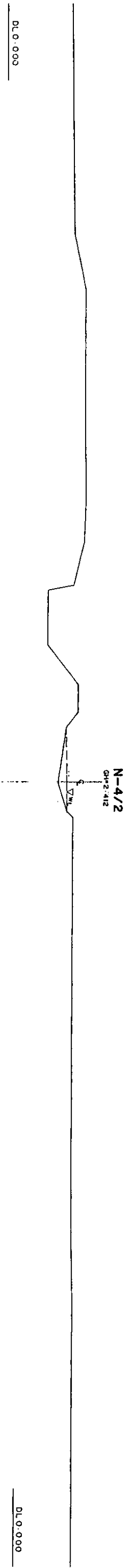
DWG. NO.

KN L8

DATE

March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT				
STUDY IN DHAKA METROPOLITAN AREA				
BANGLADESH FLOOD ACTION PLAN NO.8A				
DHAKA METROPOLITAN AREA				
CROSS SECTION OF CANAL				
N-4		SCALE	H=1:200	V=1:100
DWG NO	KN C9	DATE	March	1991
JAPAN INTERNATIONAL COOPERATION AGENCY				

N-4/4

GH=3.021

↑
E

W/L

DITCH

DL 0.000

DL 0.000

N-4/3

GH=2.097

↑
C

W/L

GH=0.192

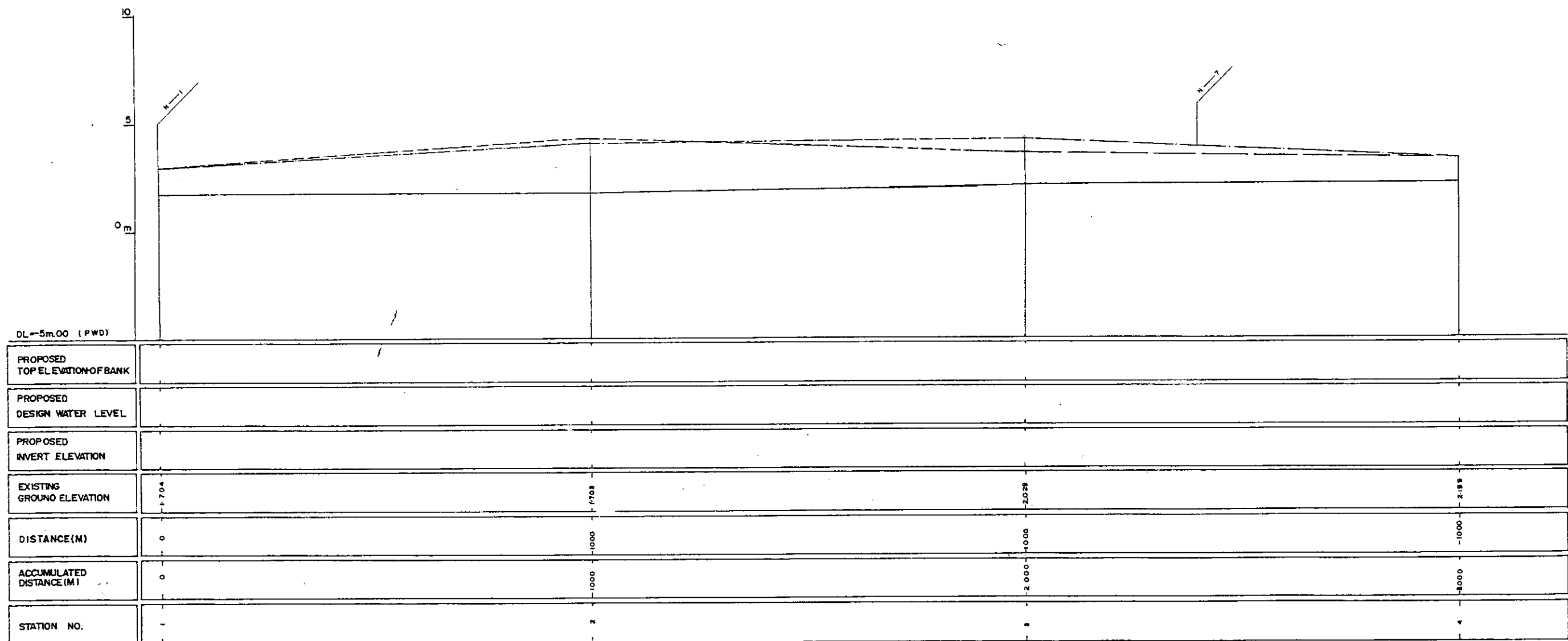
W/L

DL 0.000

DL 0.000

* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-4		SCALE	H=1:200 V=1:100
DWG NO	KN C 10	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP-STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.8A

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

N-5

SCALE

H=1:5000
V=1:100

DWG. NO.

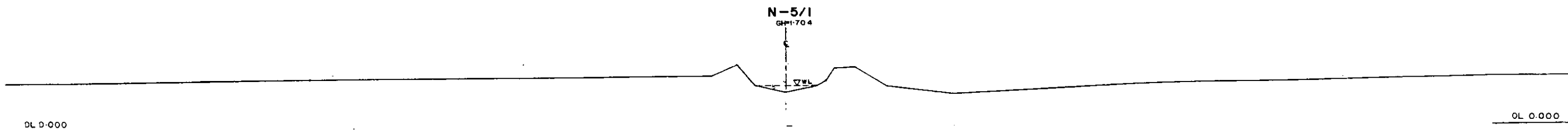
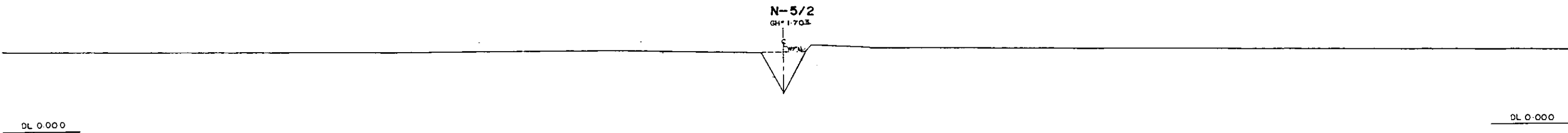
KN L9

DATE

March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

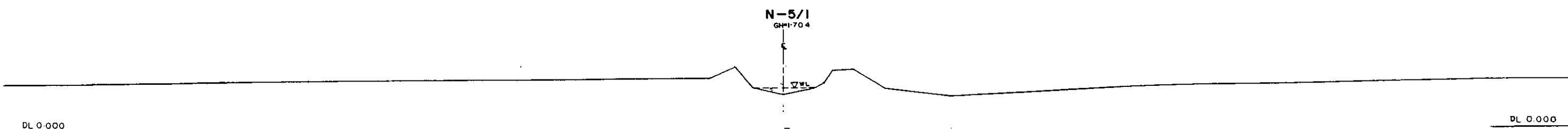
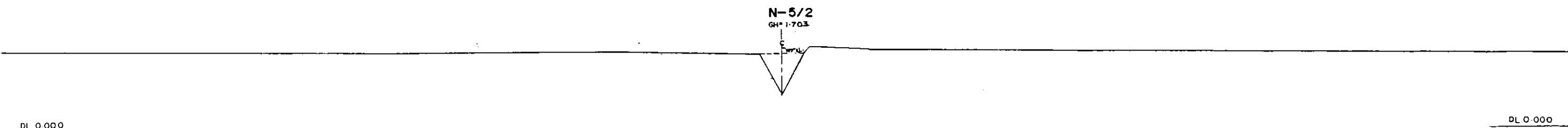
229



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
N-5		SCALE	H=1:200 V=1:100
DWG NO	KN C II	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

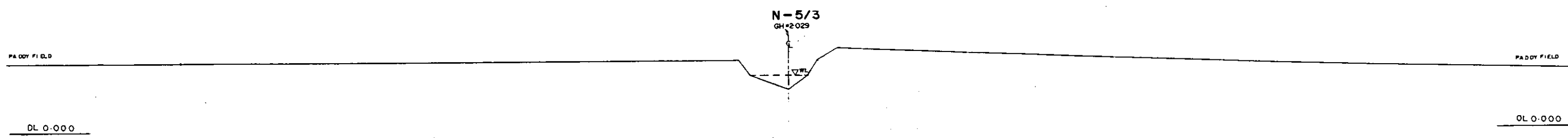
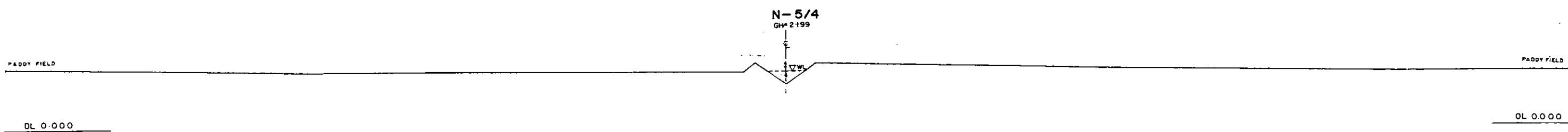
281



* L/R FACING TO UP STREAM

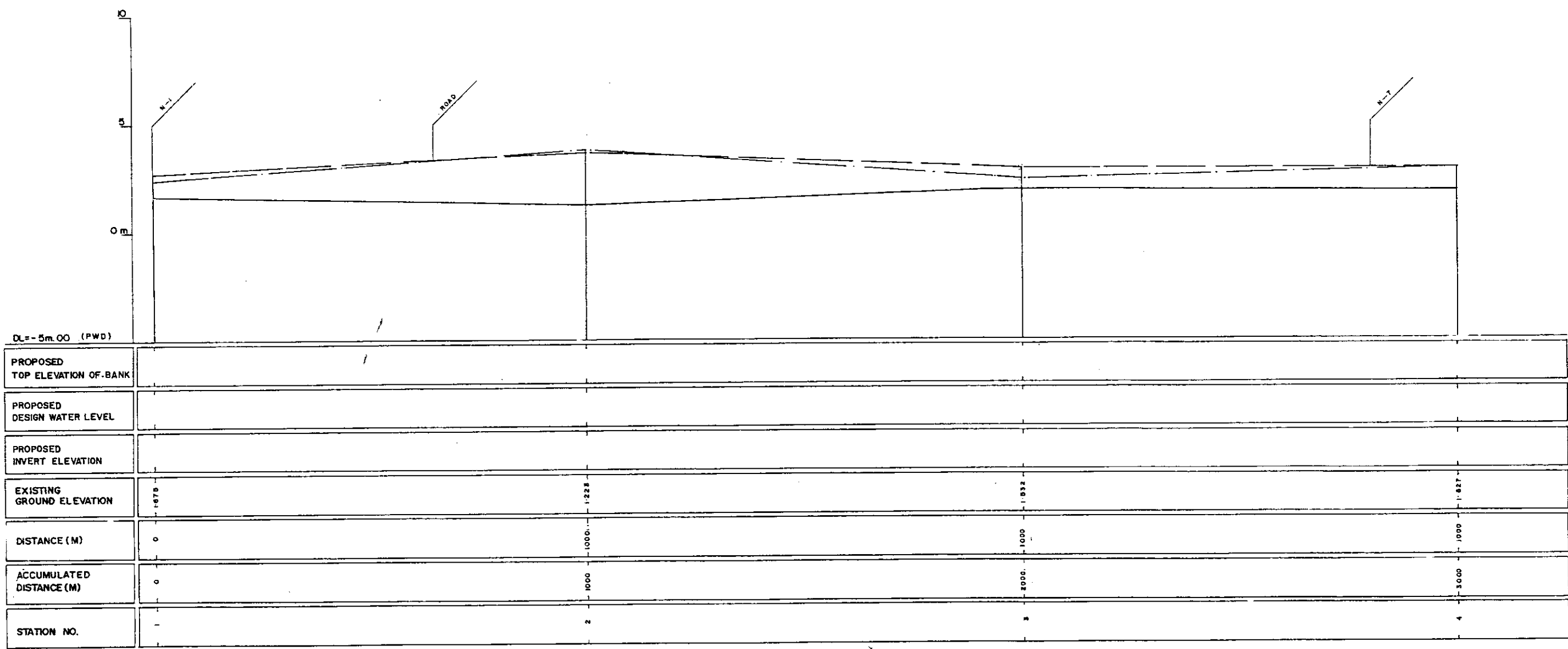
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-5		SCALE	H=1:200 V=1:100
DWG NO	KN C11	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

282



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-5		SCALE	H=1:200 V=1:100
DWG NO	KN C12	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND
EXISTING LEFT GROUND LINE: ---
EXISTING RIGHT GROUND LINE: ---
EXISTING BOTTOM LINE: ---
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.8A

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

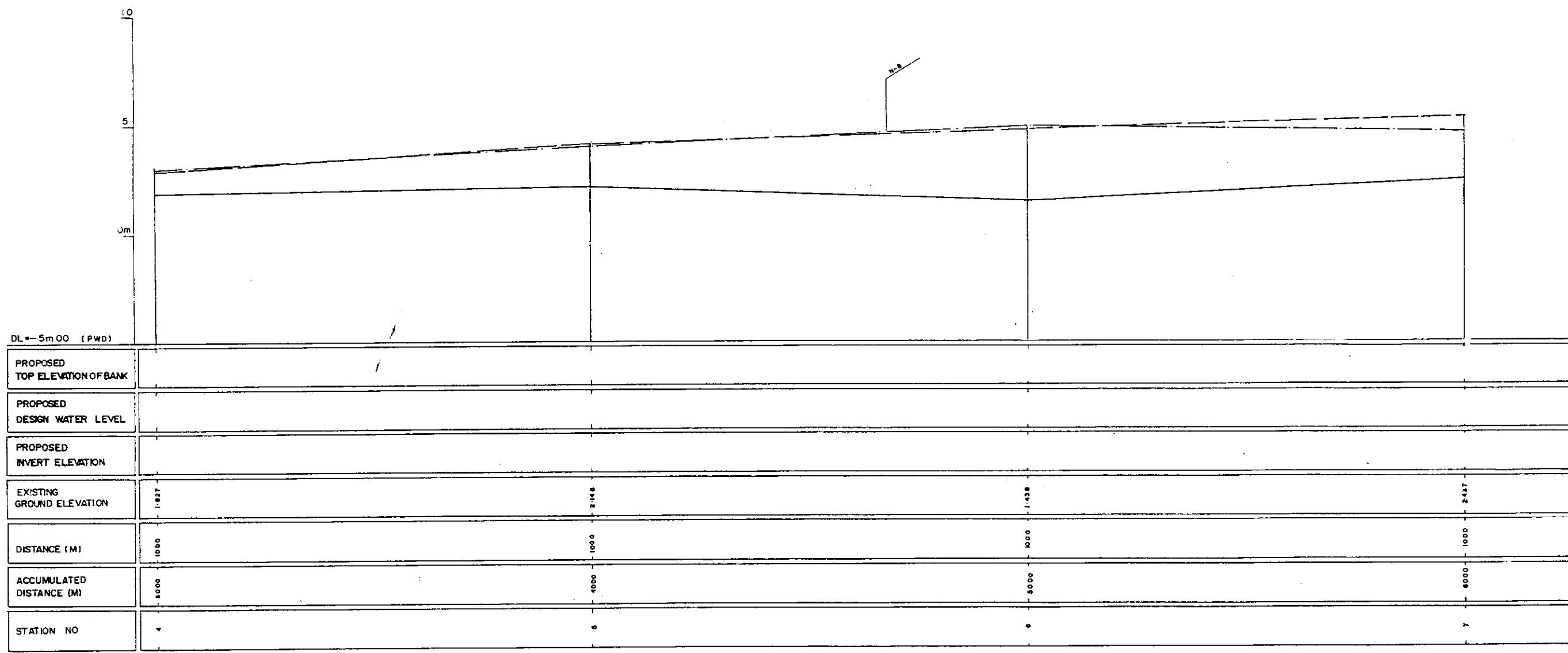
N-6

SCALE: H=1:5000
V=1:100

DWG NO: KN L 10 DATE: March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

2002



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.8A

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

N-6

SCALE

H.W. 5000
V.H. 100

DWG NO

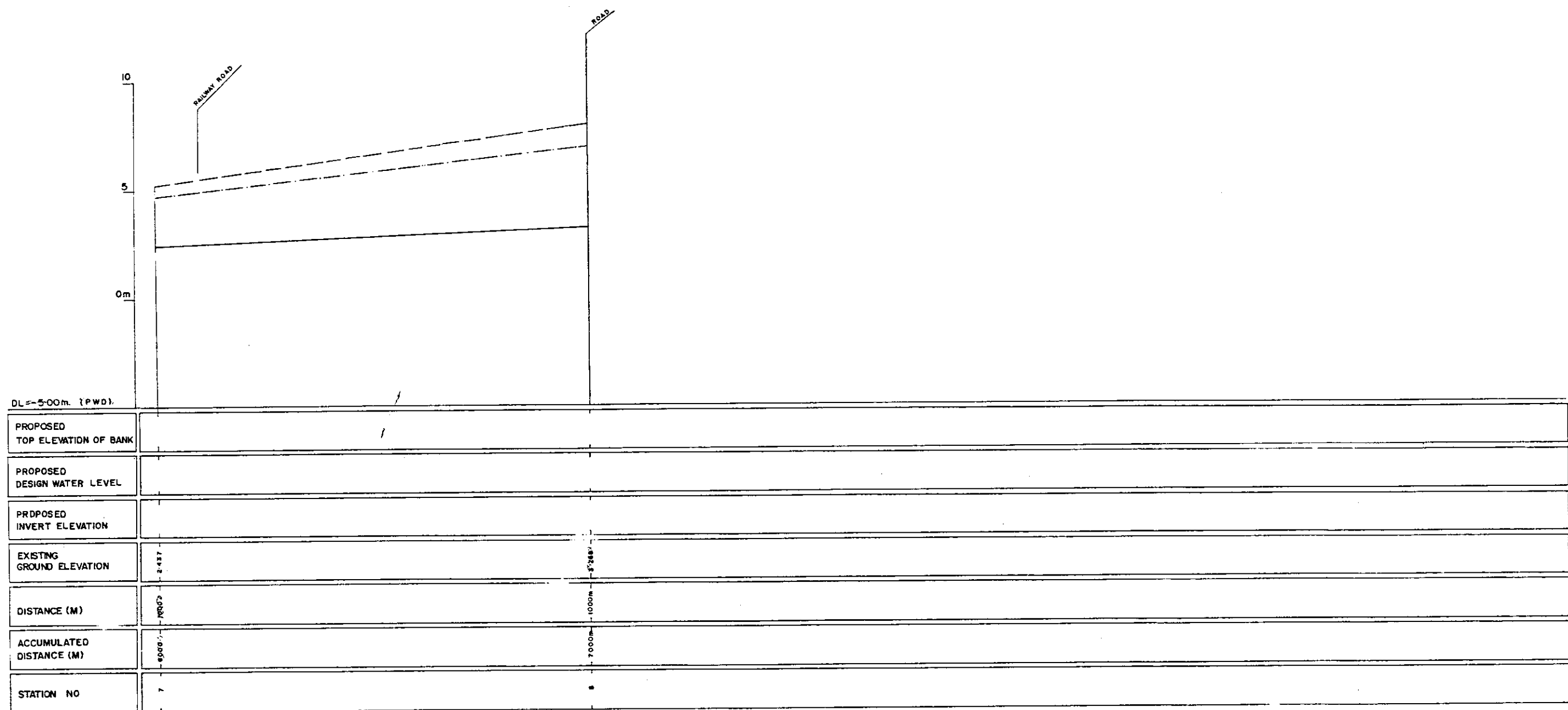
KN L II

DATE

March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

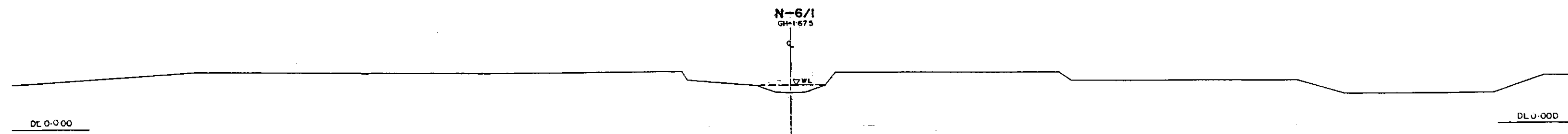
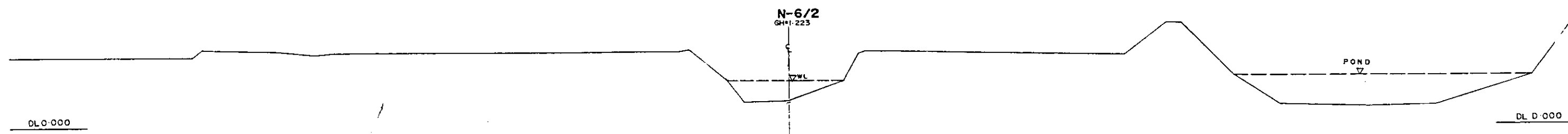
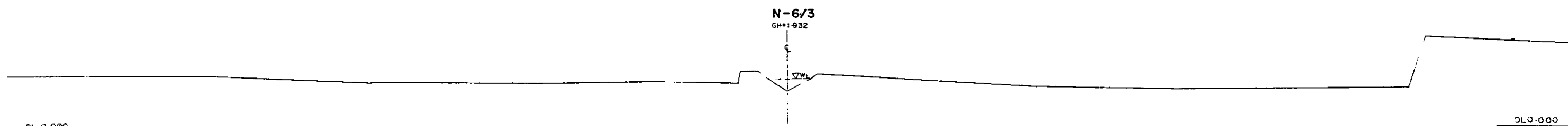
282



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-6		SCALE	1:5000 V=1:100
DWG NO	KN L12	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

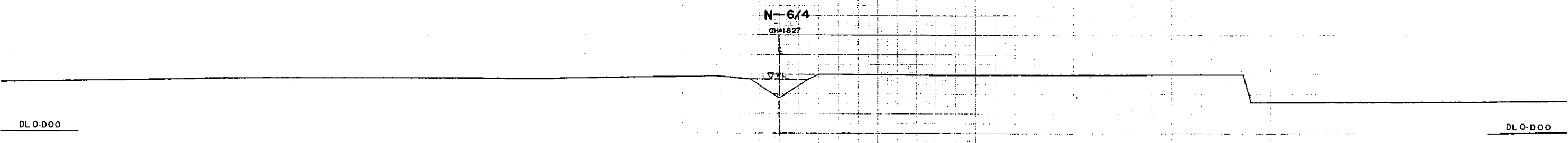
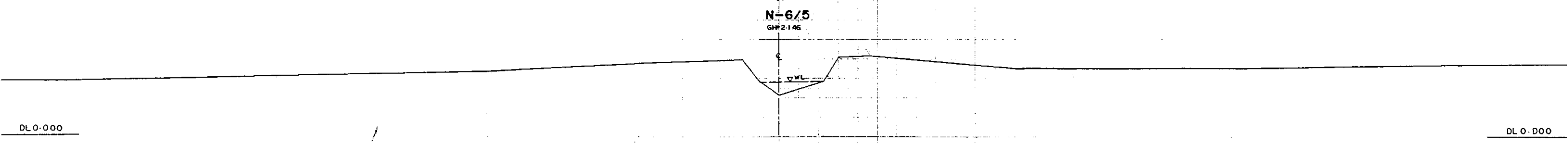
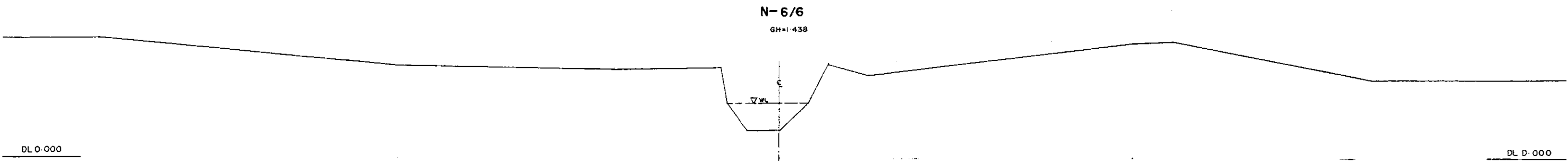
286



* C/R FACING TO UP STREAM

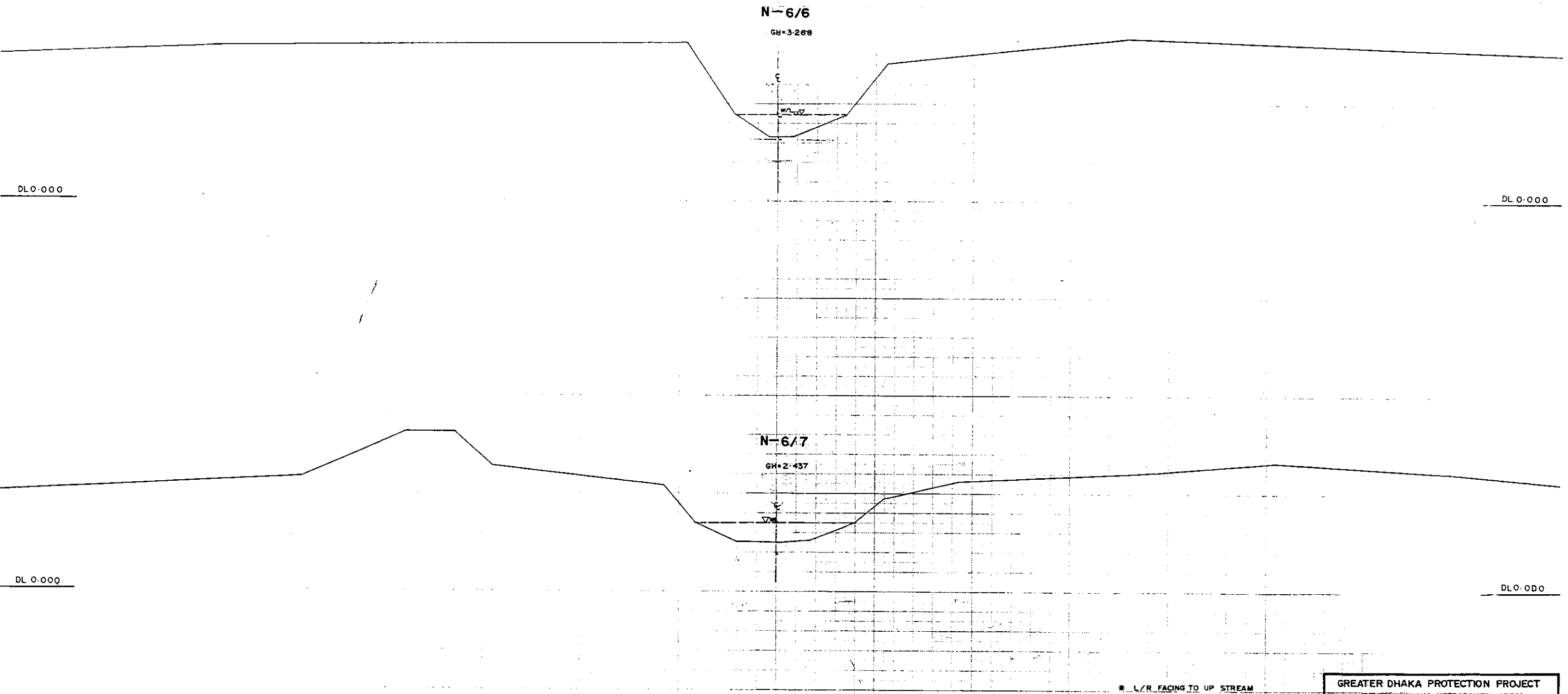
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-6		SCALE	Hv:1:200 Vv:1:100
DWG NO	KN C13	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

208



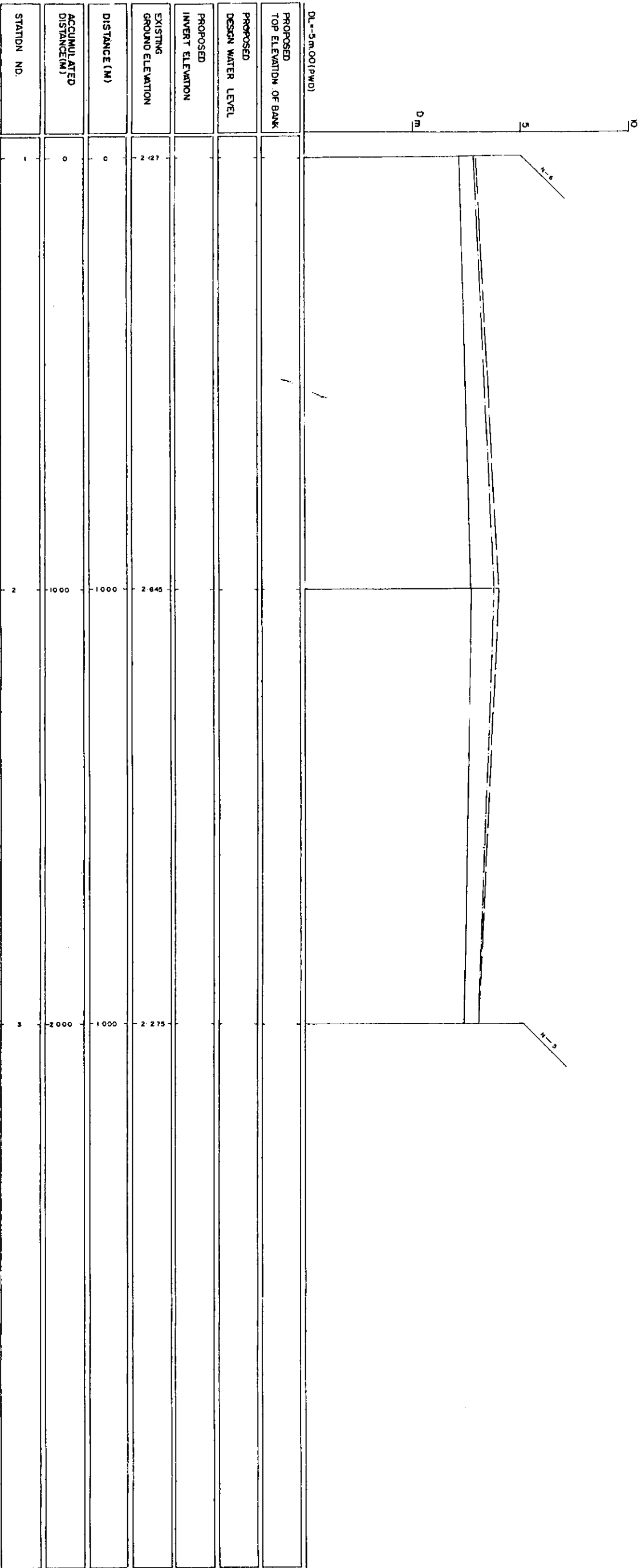
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-6		SCALE	H=1:200 V=1:100
DWG NO	KN C14	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



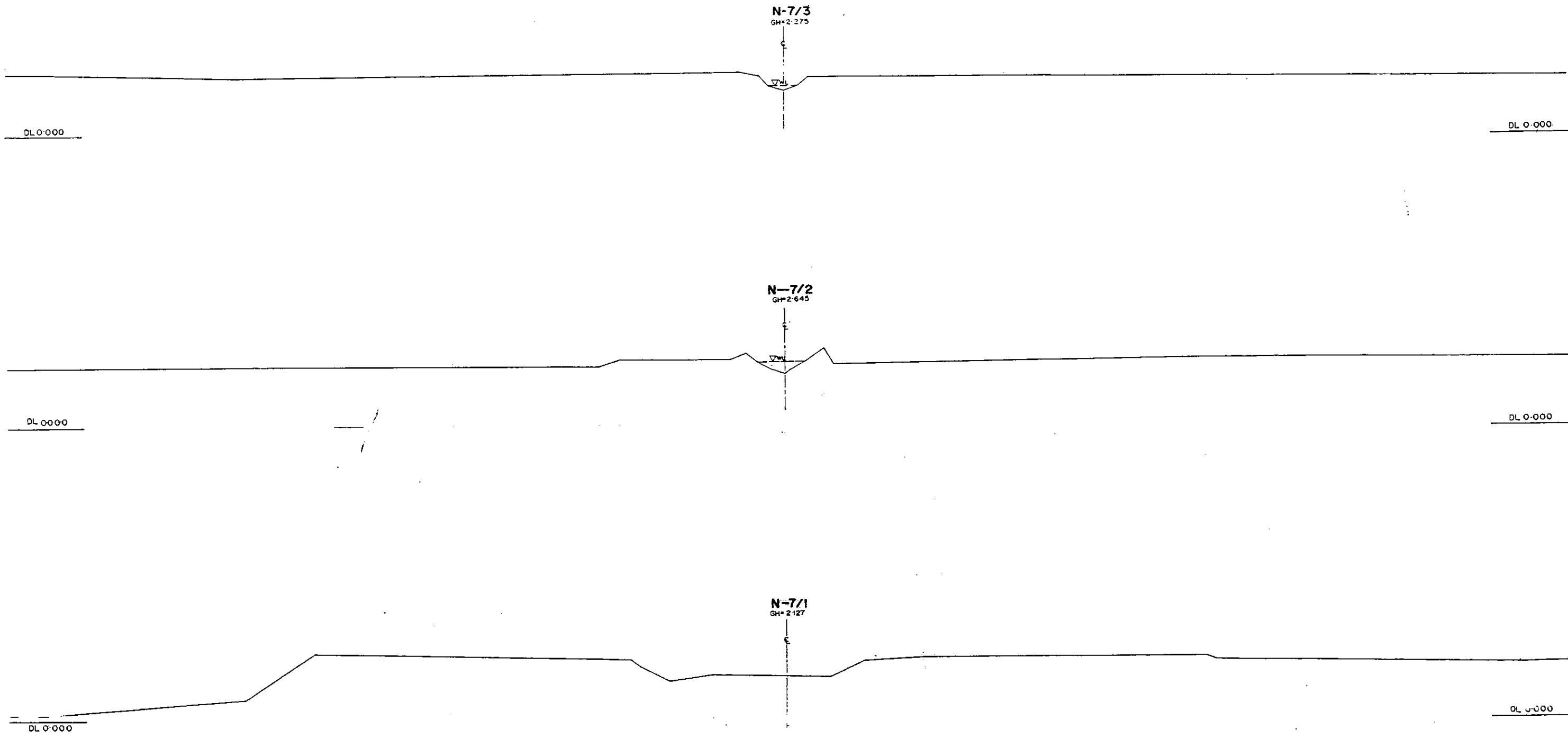
GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-6		SCALE	H=1:200 V=1:100
DWG NO	KN C15	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

200



LEGEND
EXISTING LEFTGROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TO UP STREAM

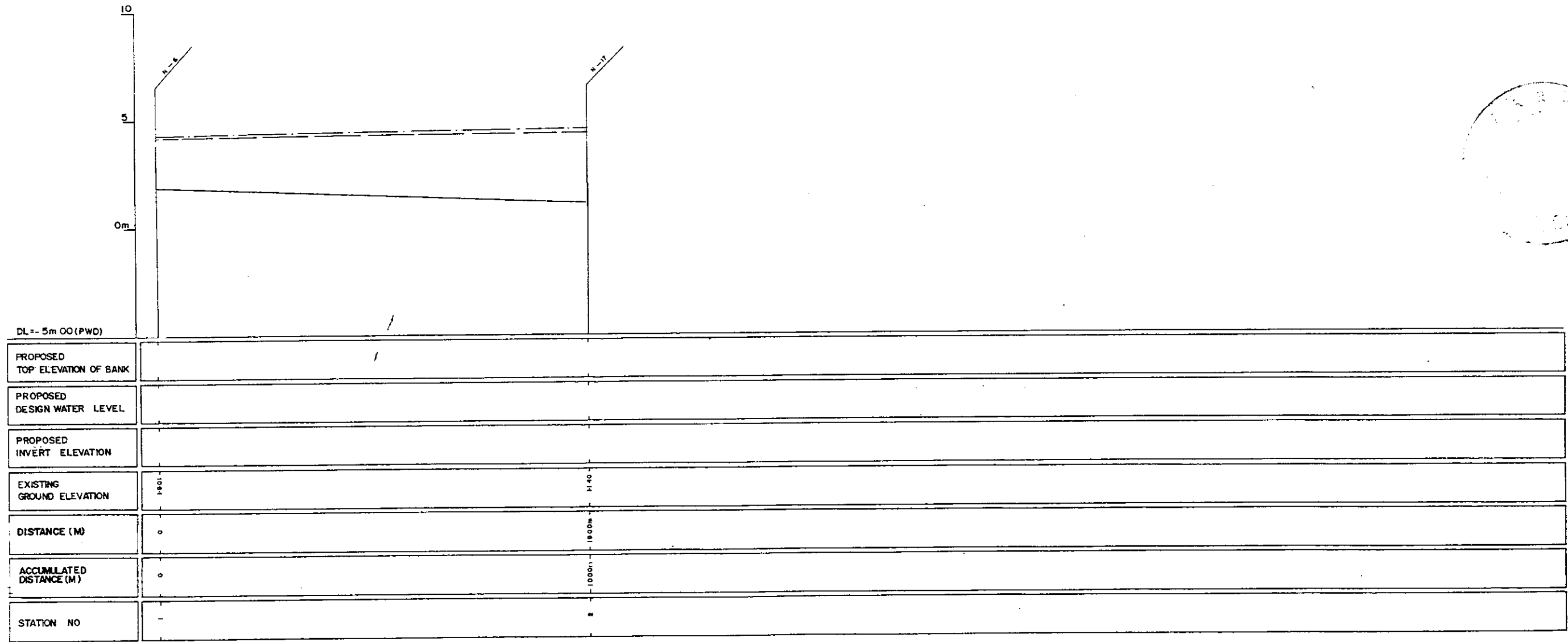
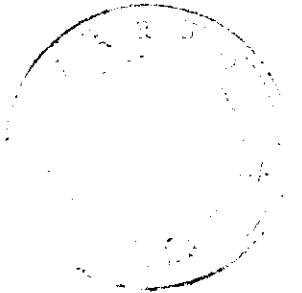
203



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-7		SCALE	1st: 200 2nd: 100
DWG NO	KN C16	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

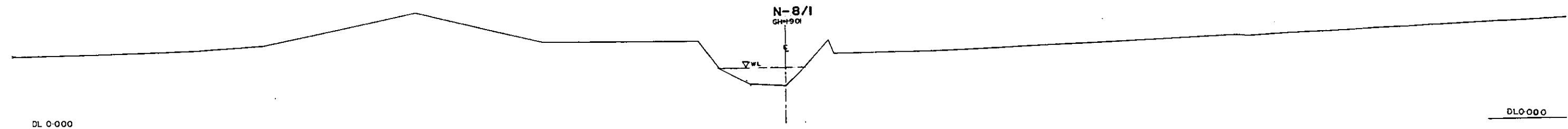
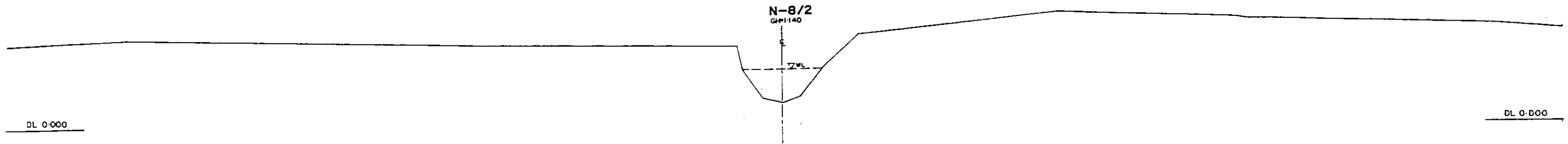
289



LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
N-8		SCALE	HH:3000 VH:100
DWG NO	KN L 14	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

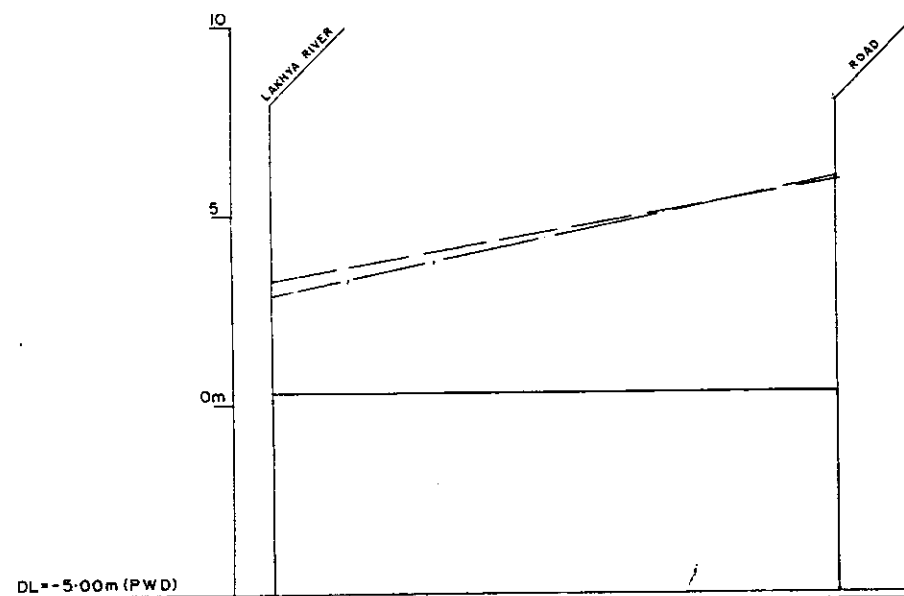
122



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA I)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-8		SCALE	H=1:200 V=1:100
DWG NO	KN C17	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

22



PROPOSED TOP ELEVATION OF BANK		
PROPOSED DESIGN WATER LEVEL		
PROPOSED INVERT ELEVATION		
EXISTING GROUND ELEVATION	0.314	0.303
DISTANCE (M)	0	750
ACCUMULATED DISTANCE (M)	0	750
STATION NO	1	2

LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.8A

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

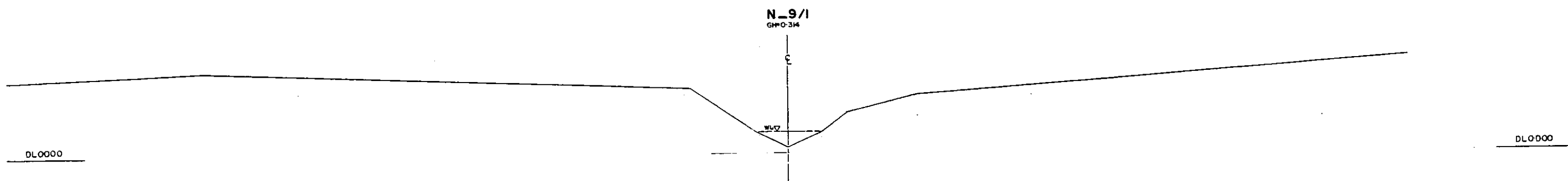
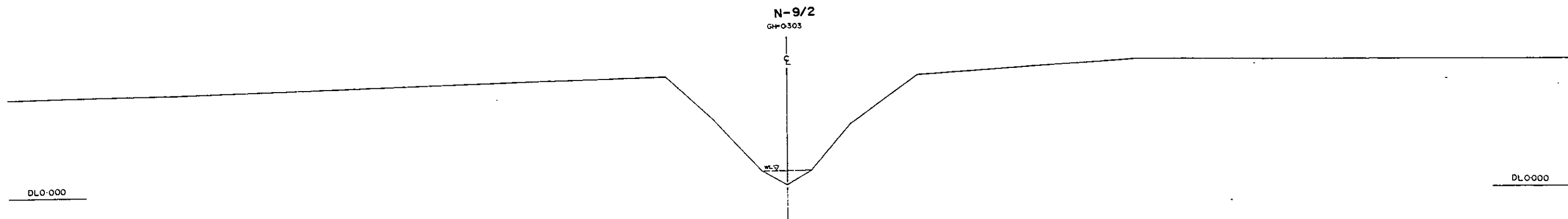
N-9

DWG NO	KN L15	DATE	March 1998
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SCALE	H=5000 V=100
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JAPAN INTERNATIONAL COOPERATION AGENCY

230



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-9		SCALE	H:V:200 W:1:100
DWG NO	KN C18	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

237



LEGEND
EXISTING LEFT GROUND LINE ---
EXISTING RIGHT GROUND LINE ---
EXISTING BOTTOM LINE ---
L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.8A

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL
N-10

DWG NO	KN L16	SCALE	1:5000 V=100
		DATE	March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

292

N-10/2

GM+17.22

3

DL 0.000

DL 0.000

N-10/1

GM+22.54

3

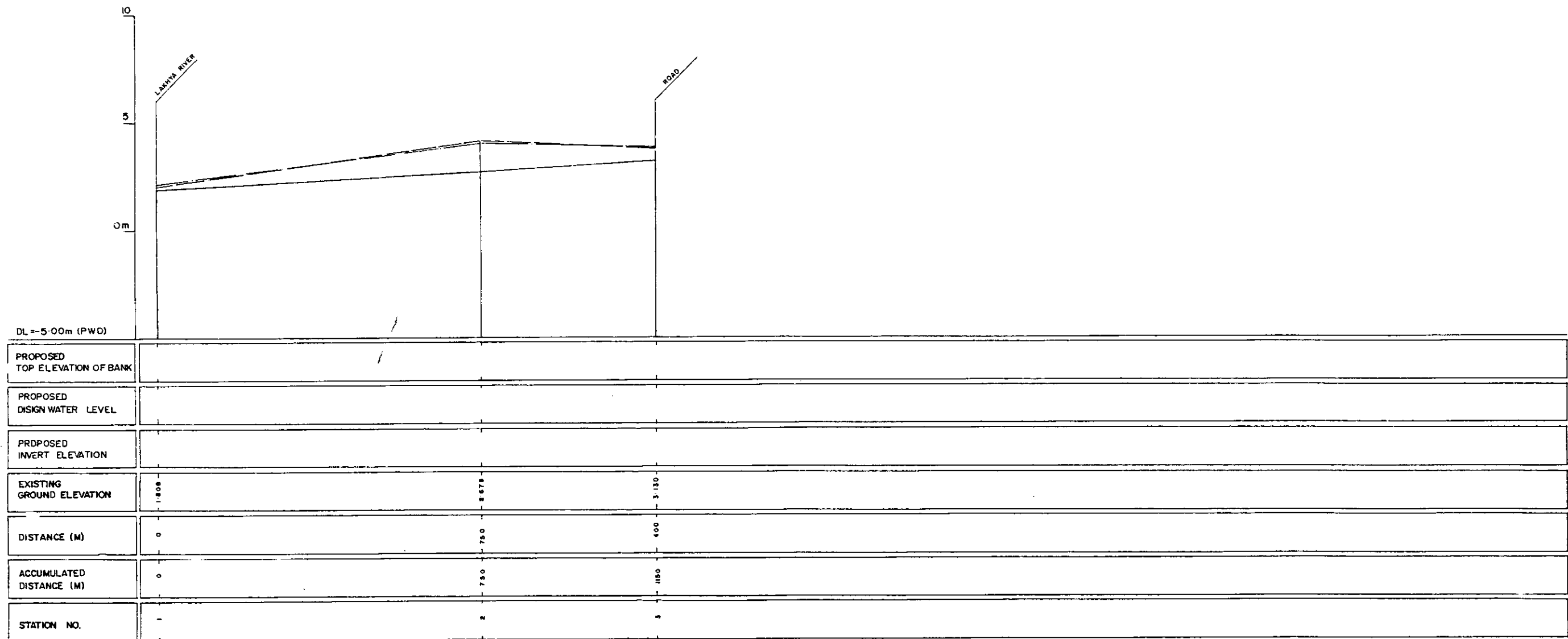
DL 0.000

DL 0.000

*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-10		SCALE	N=1:200 V=1:100
DWG NO	KN C19	DATE	March 1991
JAPAN INTERNATIONAL CO-OPERATION AGENCY			

24

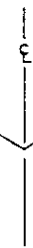


LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-11		SCALE	H=1:5000 V=1:100
DWG NO	KN L 17	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

252

N-II/3
GH+130



DL0+000

DL0+000

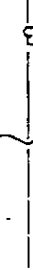
N-II/2
GH+2675



DL0+000

DL0+000

N-II/1
GH+1808



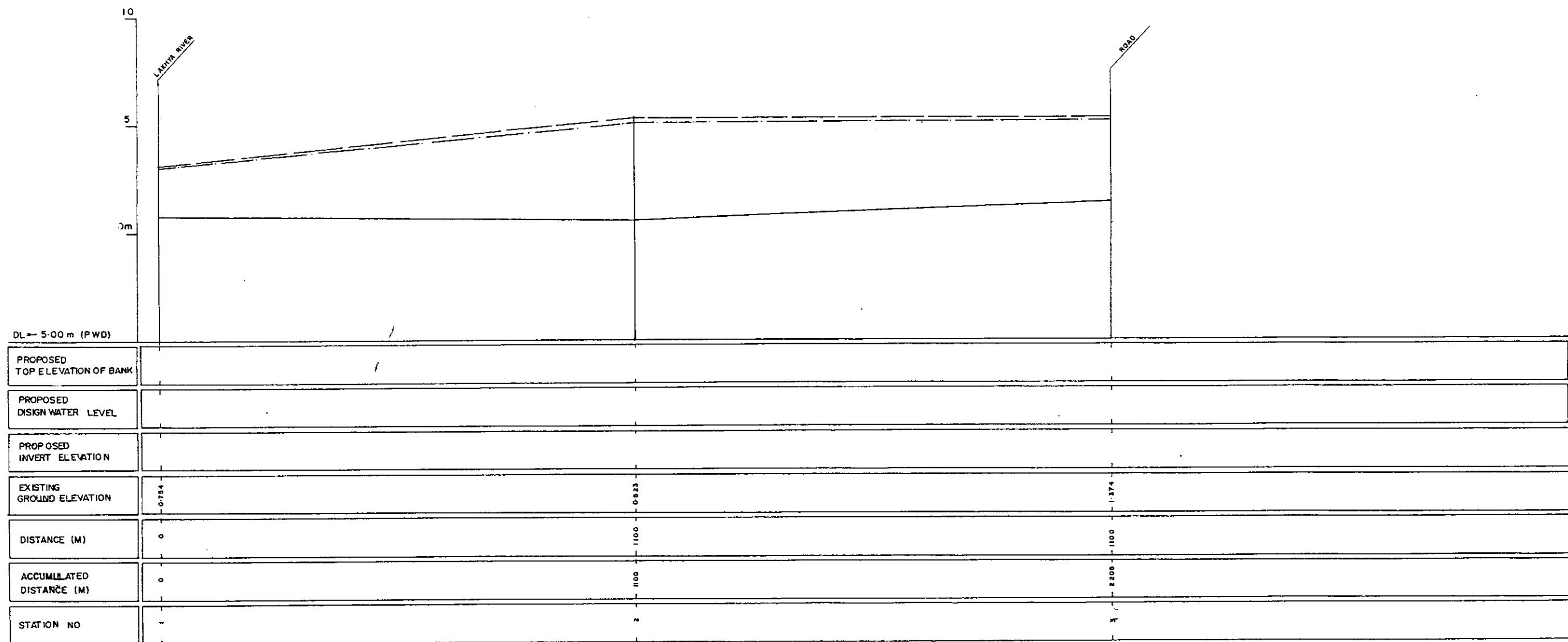
DL0+000

DL0+000

*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-II		SCALE	H=1:200 V=1:100
DWG NO	KN C 20	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

279



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE =====
#L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-12		SCALE	H=1:5000 V=1:100
DWG NO	KN L18	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

২২৩

N-12/3
GH=1.374



DL0000

DL0000

N-12/2
GH=0.523



DL0000

DL0000

N-12/1
GH=0.754



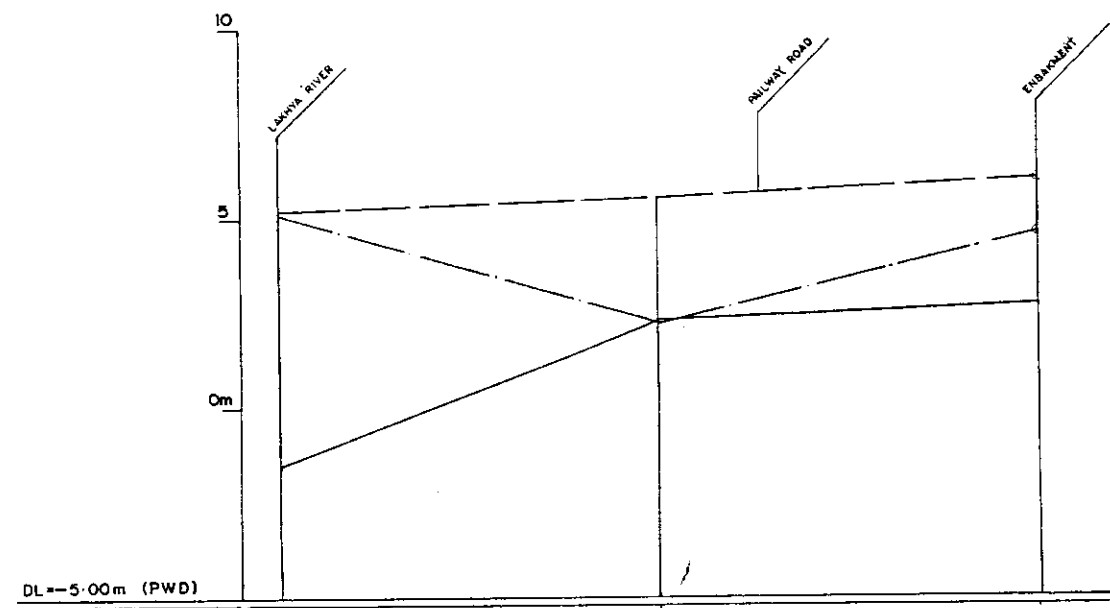
DL0000

DL0000

* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-12		SCALE	H=1:200 V=1:100
DWG. NO. .	KN C21	DATE	March 1994
JAPAN INTERNATIONAL CO OPERATION AGENCY			

239



DL=-5.00m (PWD)			
PROPOSED TOP ELEVATION OF BANK			
PROPOSED DESIGN WATER LEVEL			
PROPOSED INVERT ELEVATION			
EXISTING GROUND ELEVATION	1.502	2.285	2.471
DISTANCE (M)	0	500m	1000m
ACCUMULATED DISTANCE (M)	0	500m	1000m
STATION NO	1	2	3

LEGEND
EXISTING LEFTGROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.8A
DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

N-13		SCALE	H=1:3000 V=1:100
DWG NO	KN L19	DATE	March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

331

N-13/3
GH=2.671

Σ

DL0+000

DL0+000

N-13/2

GH=2.285

Σ

ΣWL

DL0+000

DL0+000

N-13/1

GH=1.502

Σ

ΣWL

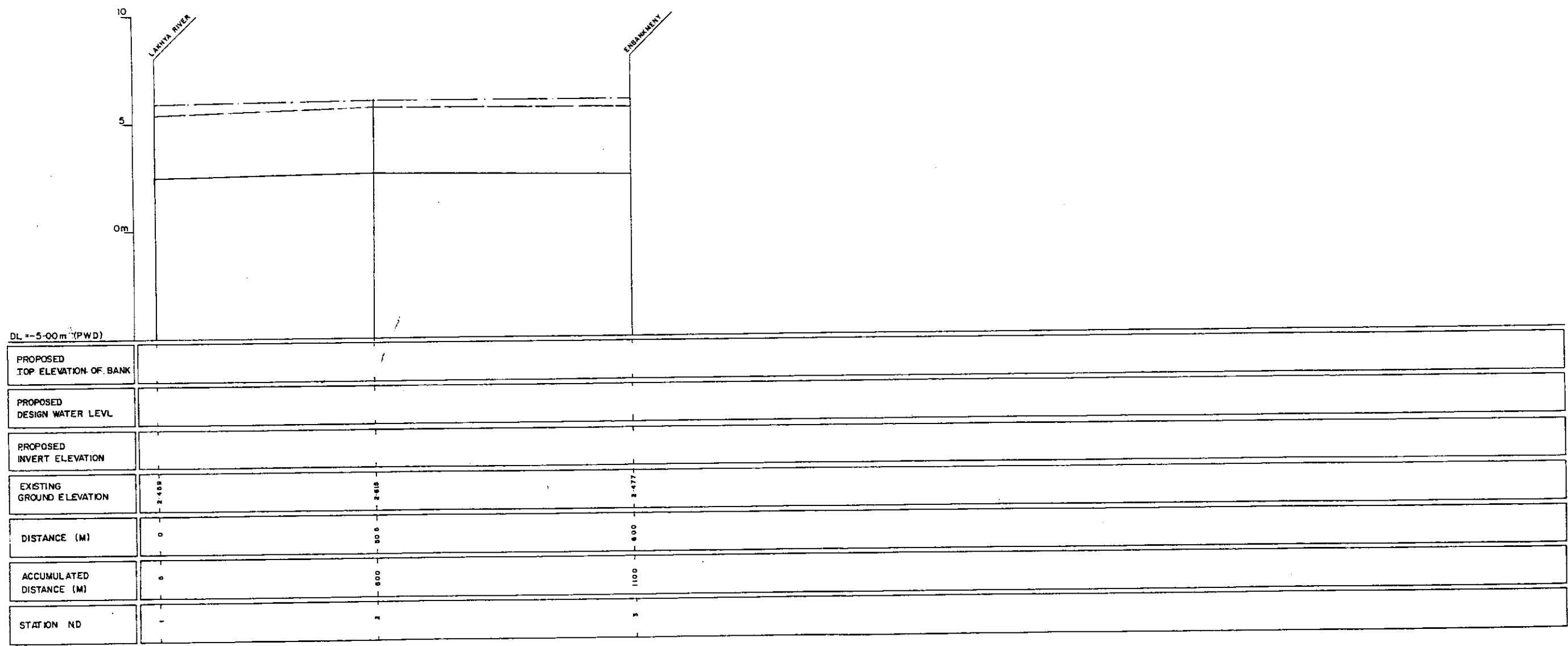
DL0+000

DL0+000

WL/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-13		SCALE	N=1:200 V=1:100
DWG NO	KN C 22	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

232



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.8A
DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

N-14		SCALE	H=1:3000 V=1:100
DWG NO	KN L20	DATE	March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

2970

N-14/3
GH=2.477

ε

▽WL

N-14/2
GH=2.665

ε

▽WL

N-14/1
GH=2.459

ε

▽WL

DLO-000

DLO-000

DLO-000

DLO-000

DLO-000

DLO-000

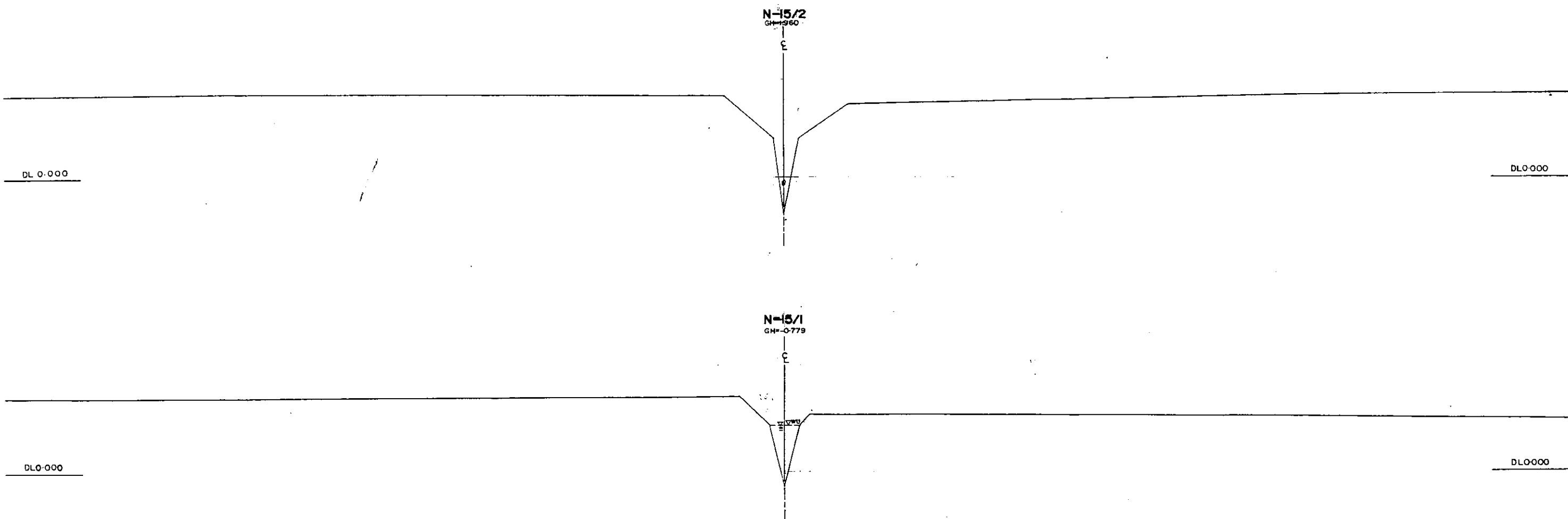
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-14		SCALE	H=1:200 V=1:100
DWG NO	KN C 23	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



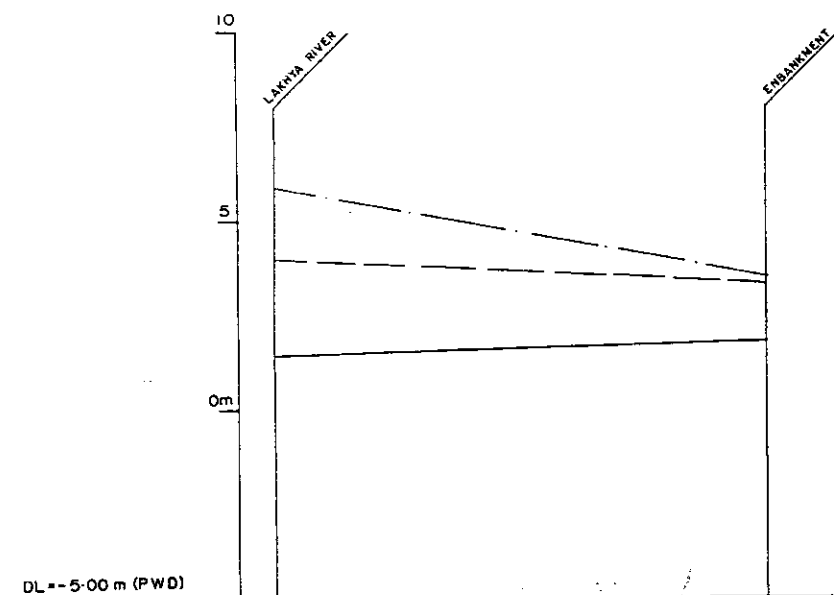
LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

392



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-15		SCALE	H=1:200 V=1:100
DWG NO	KN C24	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			



PROPOSED TOP ELEVATION OF BANK	
PROPOSED DESIGN WATER LEVEL	
PROPOSED INVERT ELEVATION	
EXISTING GROUND ELEVATION	1.453 1.942
DISTANCE (M)	0 650
ACCUMULATED DISTANCE (M)	0 650
STATION NO	- 2

LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.BA

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

N-16

SCALE

HH:5000
VH:100

DWG NO

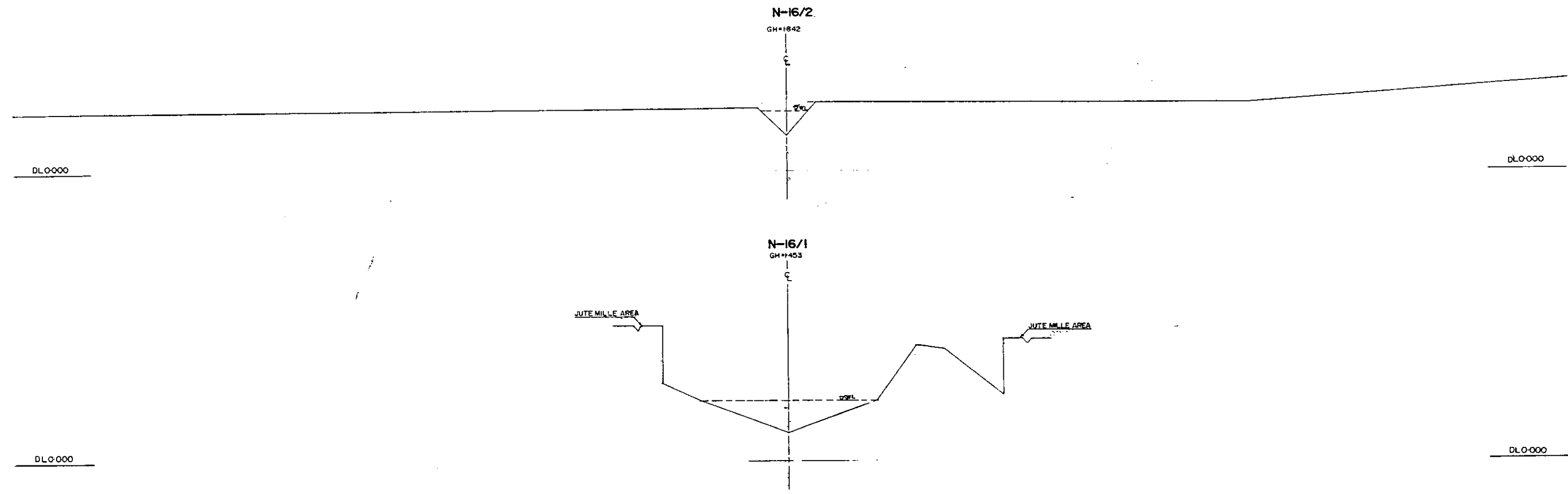
KN L 22

DATE

March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

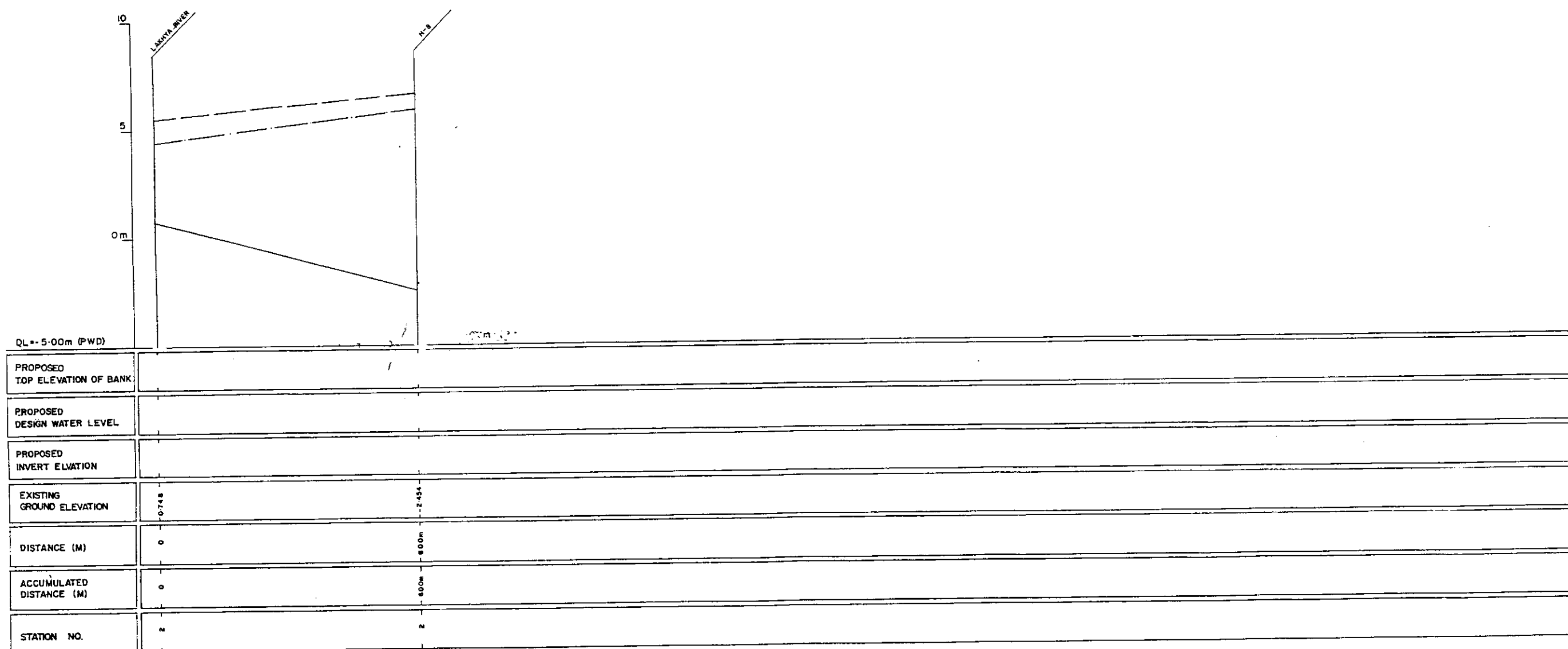
298



* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-16		SCALE	H=1:200 V=1:100
OWG NO	KN C25	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

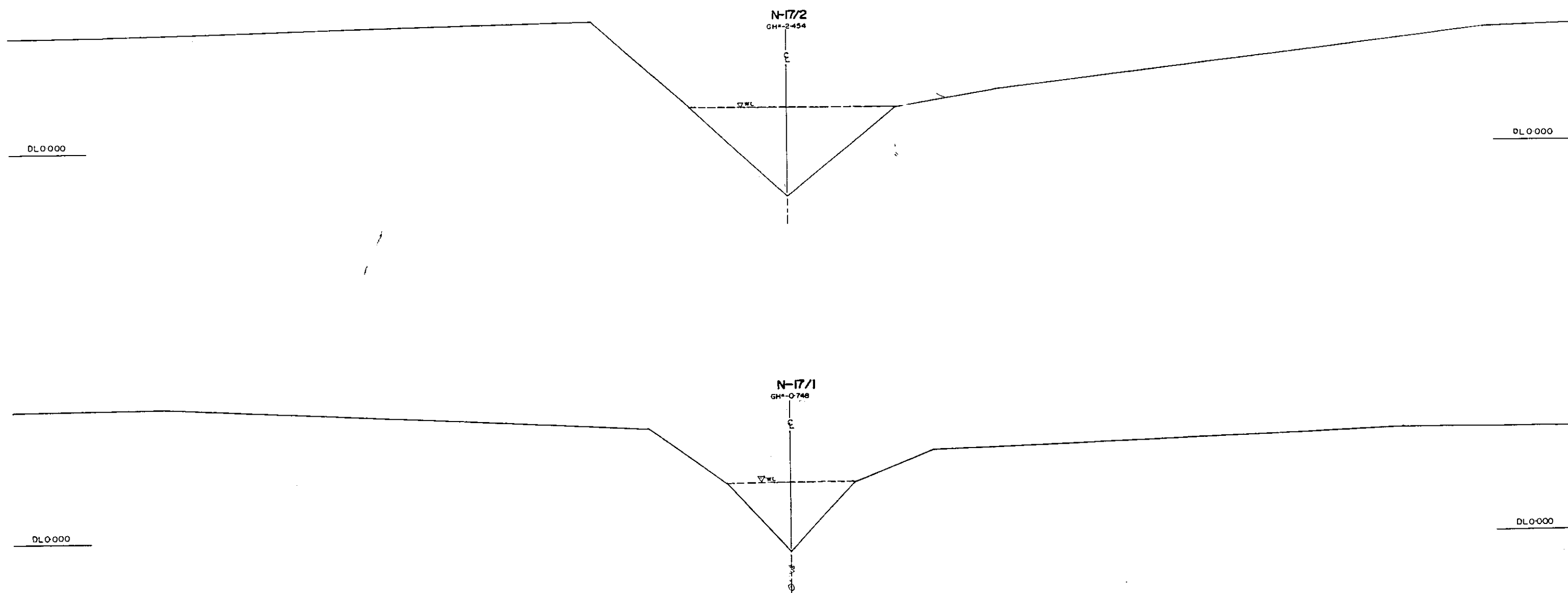
27 V



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
N-17		SCALE	M=1:5000 V=1:100
DWG NO	KN L23	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

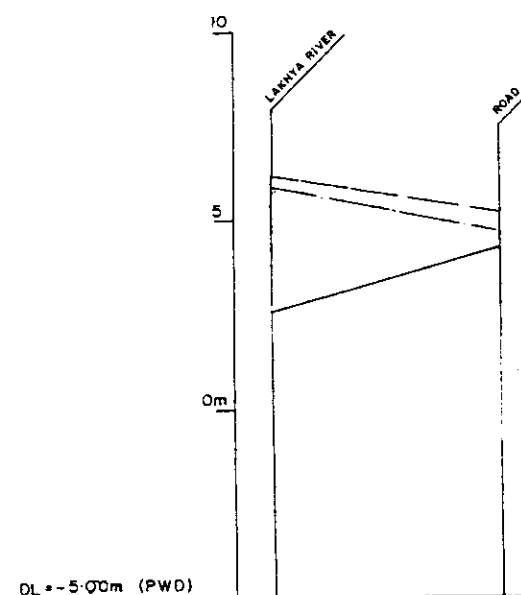
297



L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN ND.8A DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-17		SCALE	H=1:200 V=1:100
DWG NO	KN C26	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

27



PROPOSED TOP ELEVATION OF BANK		
PROPOSED DESIGN WATER LEVEL		
PROPOSED INVERT ELEVATION		
EXISTING GROUND ELEVATION	2.622	4.306
DISTANCE (M)	0	300
ACCUMULATED DISTANCE (M)	0	300
STATION NO	1	2

LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A		
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL		
N-18	SCALE	H=1:5000 V=1:100
DWG NO KN L24	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY		

215

N-18/2

GM#4305

E

DL0+000

DL0+000

N-18/1

GM#2622

E

COTTON MILL

MILL

W.W.L.

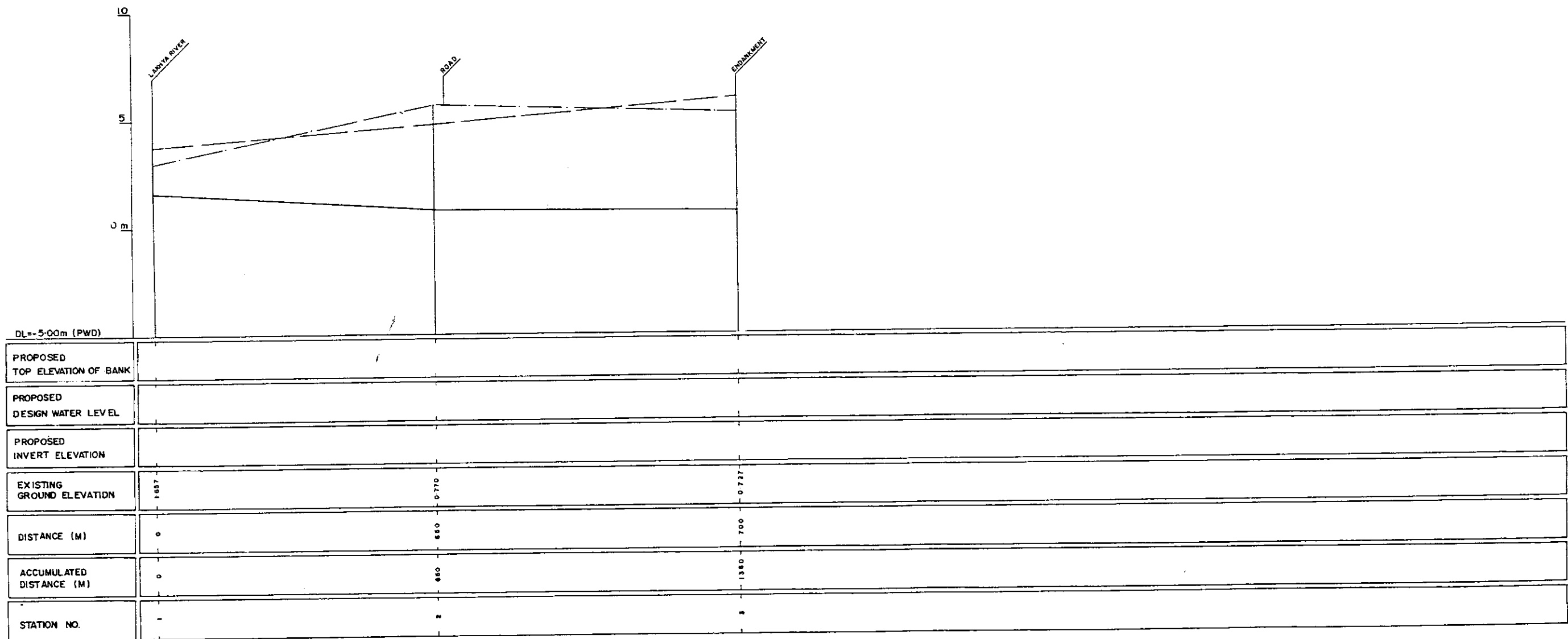
DL0+000

DL0+000

*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-18		SCALE	H=1:200 V=1:100
DWG NO	KN C 27	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

Handwritten mark: 5/2



LEGEND
EXISTING LEFTGROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

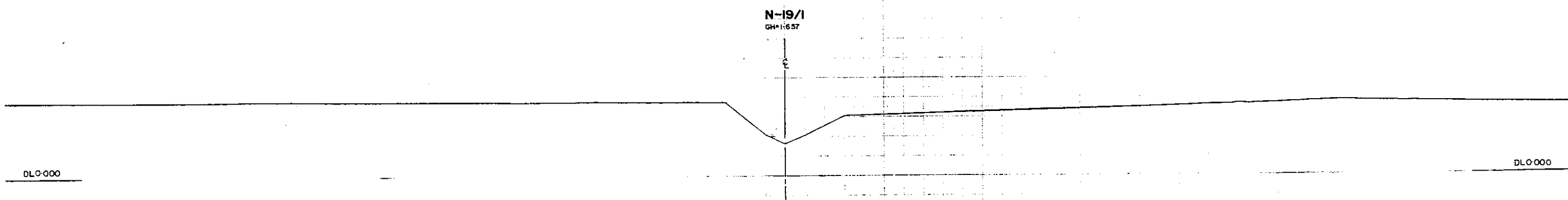
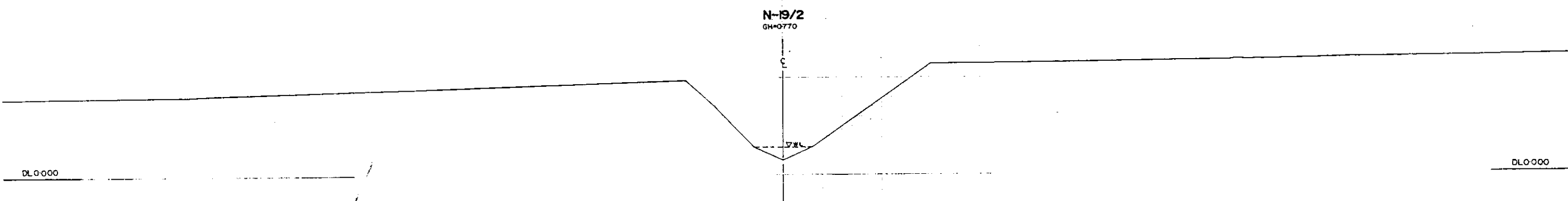
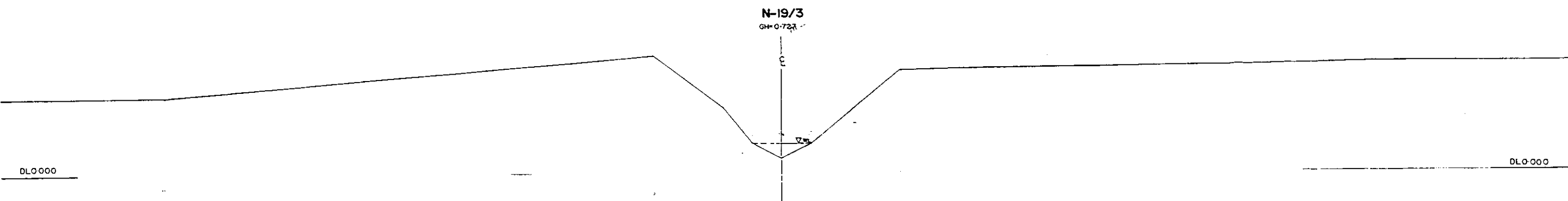
GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
BANGLADESH FLOOD ACTION PLAN NO.8A

DHAKA METROPOLITAN AREA
LONG SECTION OF CANAL

N-19		SCALE	H:V 5000 1:100
DWG NO	KN L 25	DATE	March 1991

JAPAN INTERNATIONAL COOPERATION AGENCY

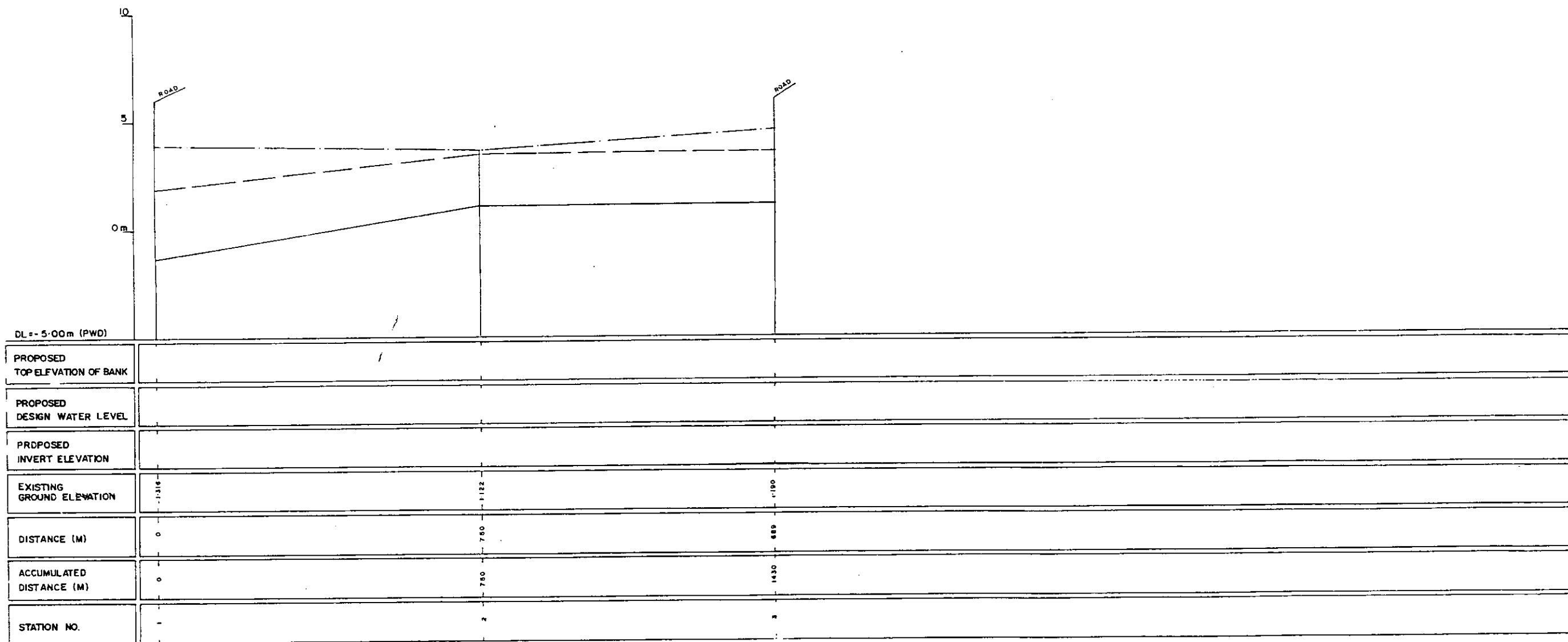
210



L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO. 8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-19		SCALE	H=1:200 V=1:100
DWG NO	KN C 28	DATE	March, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

282



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
N-20		SCALE	H=1:5000 V=1:100
DWG NO	KN L 26	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

282

N-20/3
GH+1190



DL 0+000

DL 0+000

N-20/2
GH+1122



DL 0+000

DL 0+000

N-20/1
GH+1316



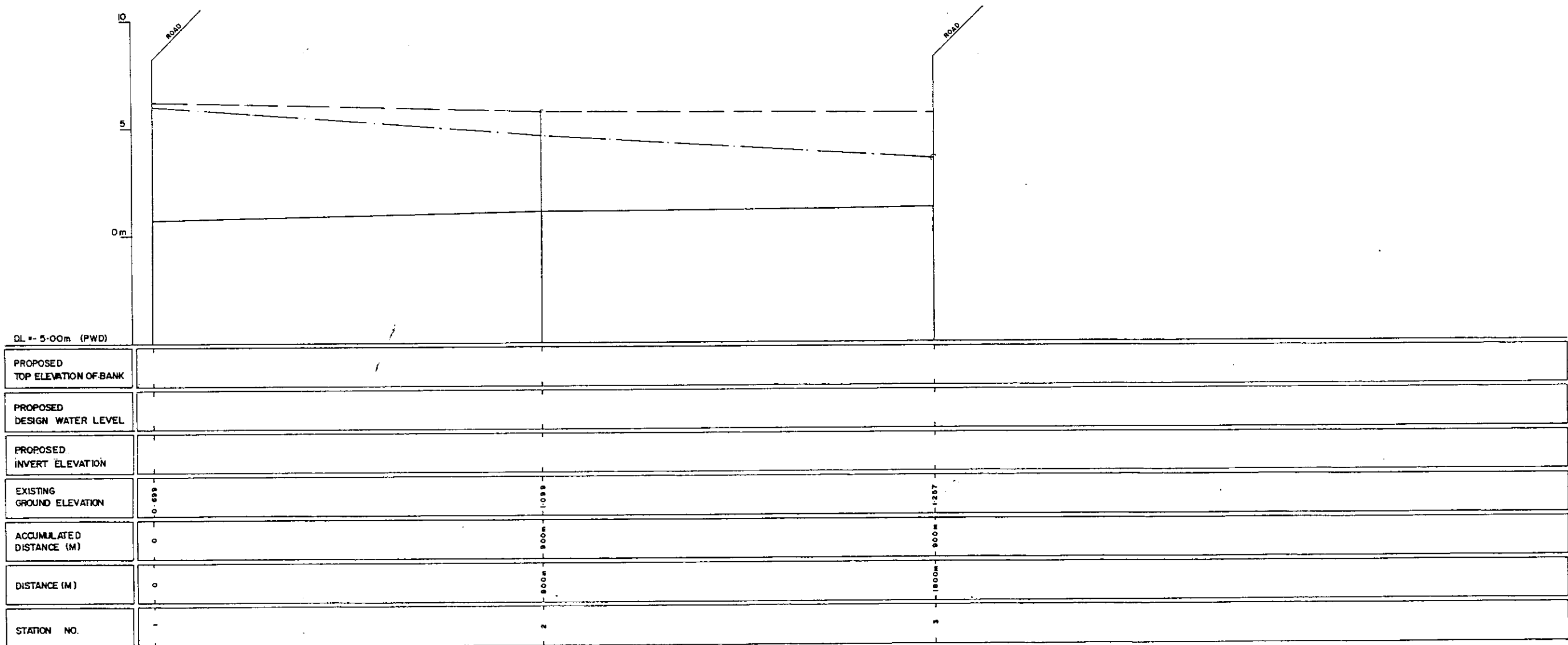
DL 0+000

DL 0+000

#L/R FACING TO UP. STREAM

GREATER DHAKA PROTECTION PROJECT			
- (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-20		SCALE	H=1:200 V=1:100
DWG NO.	KN C29	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

2/10



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
N-21		SCALE	H:V:3000 V:1:100
DWG NO	KN L27	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

2/8

N-21/2
GH=0.99



DL0-000

DL0-000

N-21/1
GH=0.699



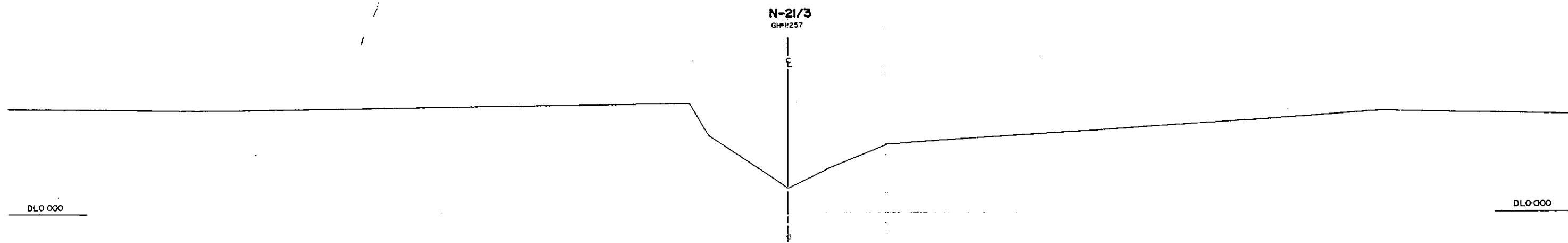
DL0-000

DL0-000

B.L./R. FACING TO UP. STREAM.

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-21		SCALE	H=1:200 V=1:100
DWG NO.	KN C30	DATE	March - 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

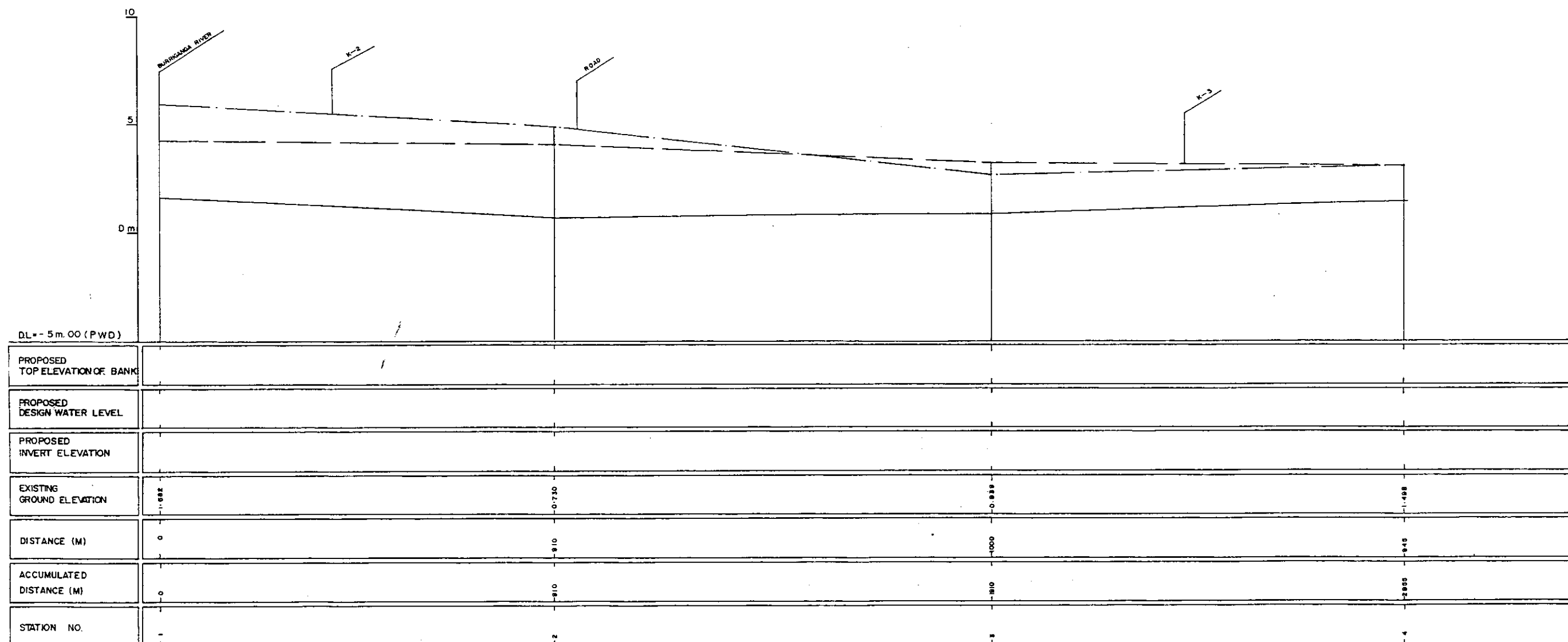
217



*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
N-21		SCALE	H=1:200 V=1:500
OWG NO.	KN C31	DATE	March 1991
JAPAN INTERNATIONAL CO-OPERATION AGENCY			

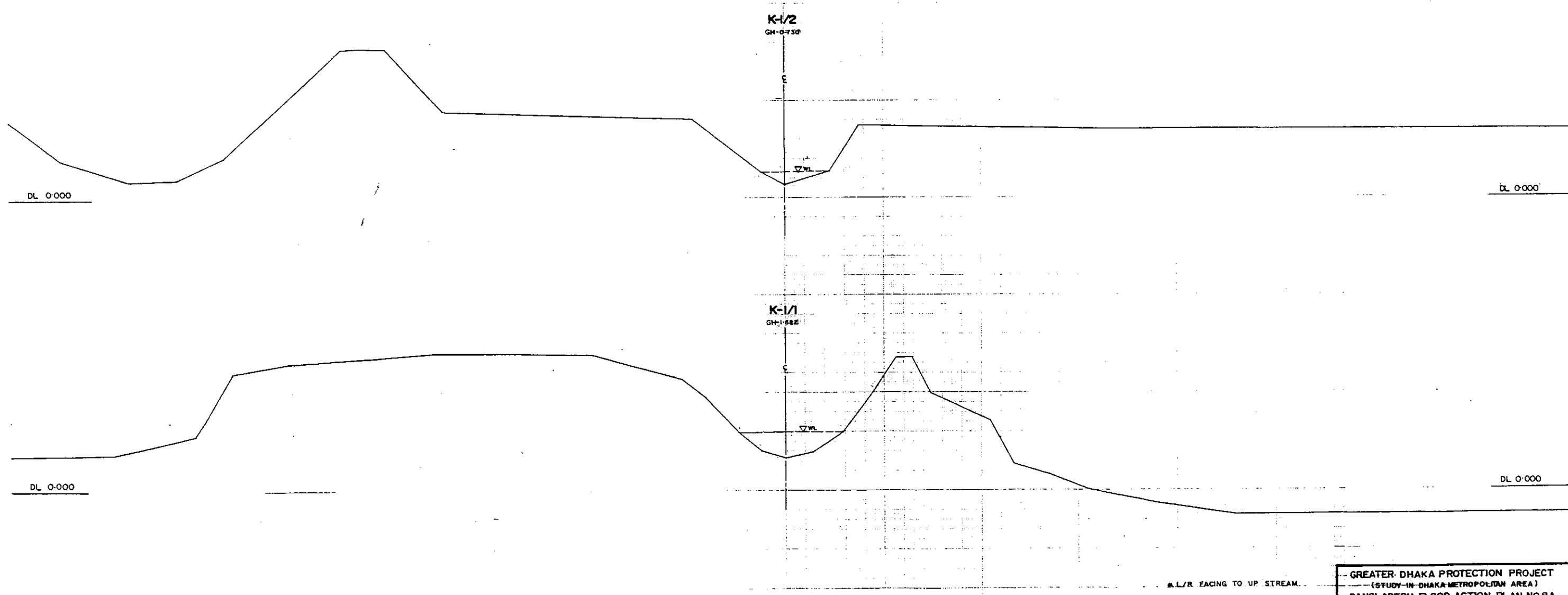
283



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
K-1		SCALE	H=1:5000 V=1:100
DWG. NO.	KK L1	DATE	March, 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

229



GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DWG. NO.	K-1	SCALE	H+1:200 V+1:500
DATE	March 1991		
JAPAN INTERNATIONAL CO OPERATION AGENCY			

284

K-1/4

GH=149.8

E

WL

DL 0+000

DL 0+000

K-1/3

GH=149.84

E

WL

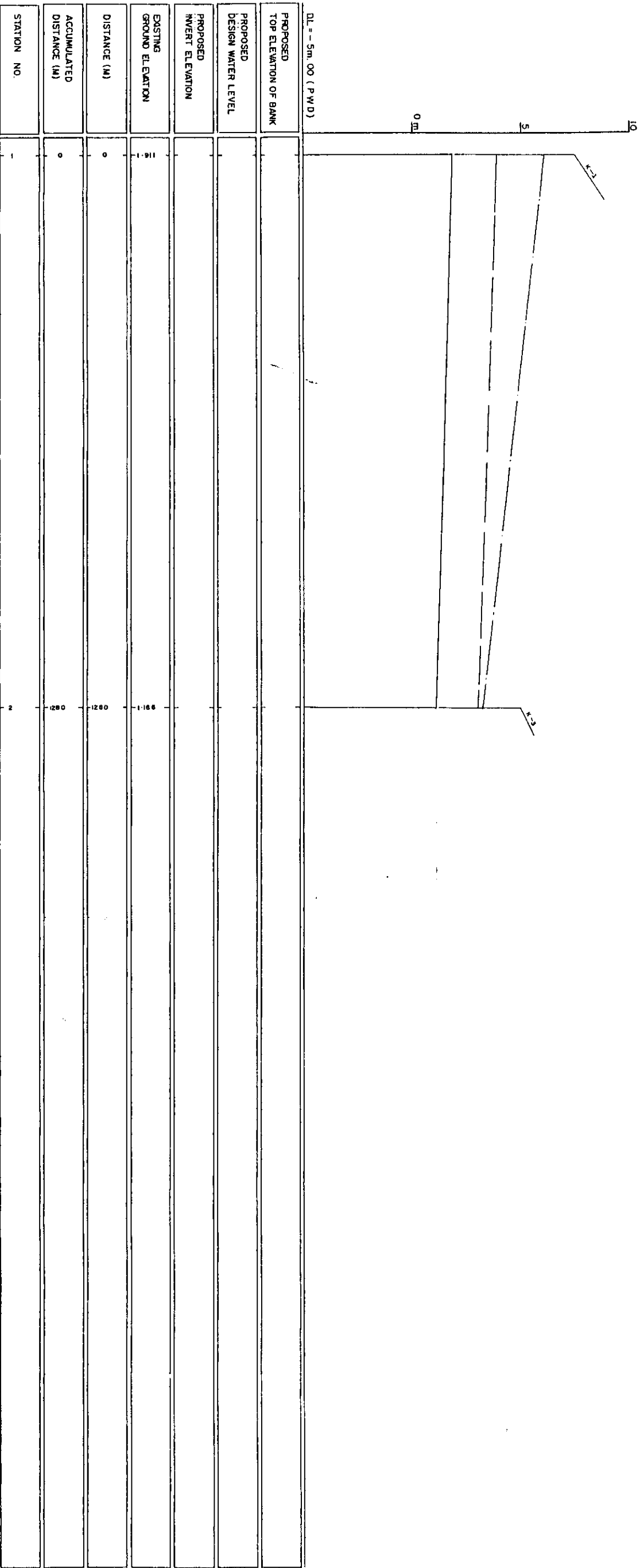
DL 0+000

DL 0+000

* L/R RACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT		
(STUDY IN DHAKA METROPOLITAN AREA)		
BANGLADESH FLOOD ACTION PLAN NO.8A		
DHAKA METROPOLITAN AREA		
CROSS SECTION OF CANAL		
K-1	SCALE	H=1:200 V=1:100
DWG. NO. 17-KK C 2	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY		

2/20



LEGEND
EXISTING LEFT GROUND LINE - - - - -
EXISTING RIGHT GROUND LINE - - - - -
EXISTING BOTTOM LINE - - - - -
* L/R FACING TO UP STREAM

220

K-2/2

GH=11.65

C

▽WL

▽WL

DL 0+000

DL 0+000

K-2/1

GH=10.91

C

▽WL

▽WL

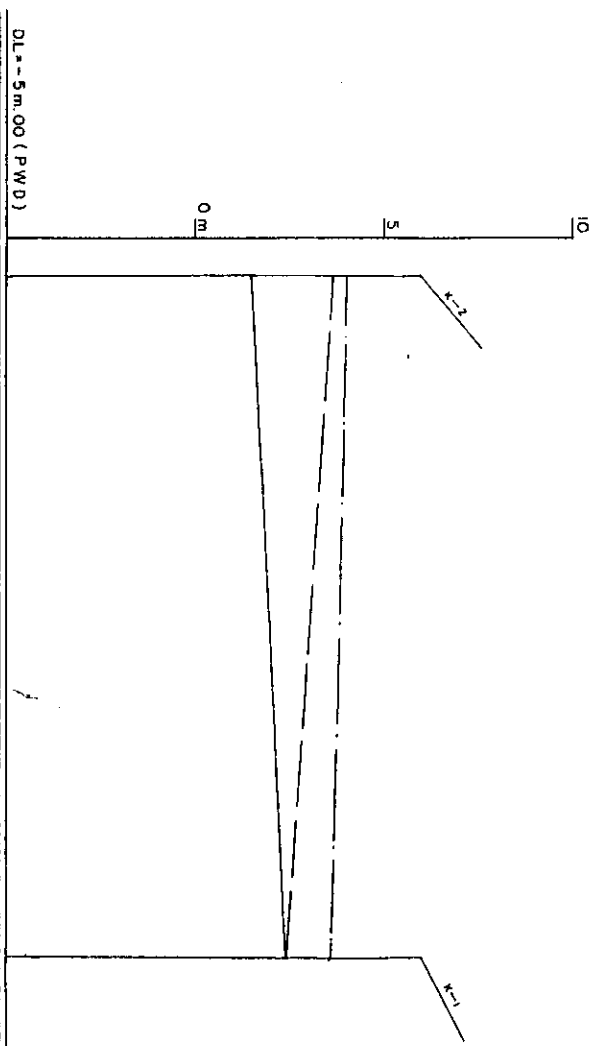
DL 0+000

DL 0+000

* L/R RACING TO UR STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
K-2		SCALE	H=1:200 V=1:100
DWG NO.	KKC3	DATE	March 1994
JAPAN INTERNATIONAL COOPERATION AGENCY			

202



PROPOSED TOP ELEVATION OF BANK	
PROPOSED DESIGN WATER LEVEL	
PROPOSED INVERT ELEVATION	
EXISTING GROUND ELEVATION	15.1
DISTANCE (M)	0
ACCUMULATED DISTANCE (M)	0
STATION NO.	2

LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STREAM

32

K-3/2

GH-1-434

E

VWL

DL 0+000

DL 0+000

K-3/1

GH-1-334

E

VWL

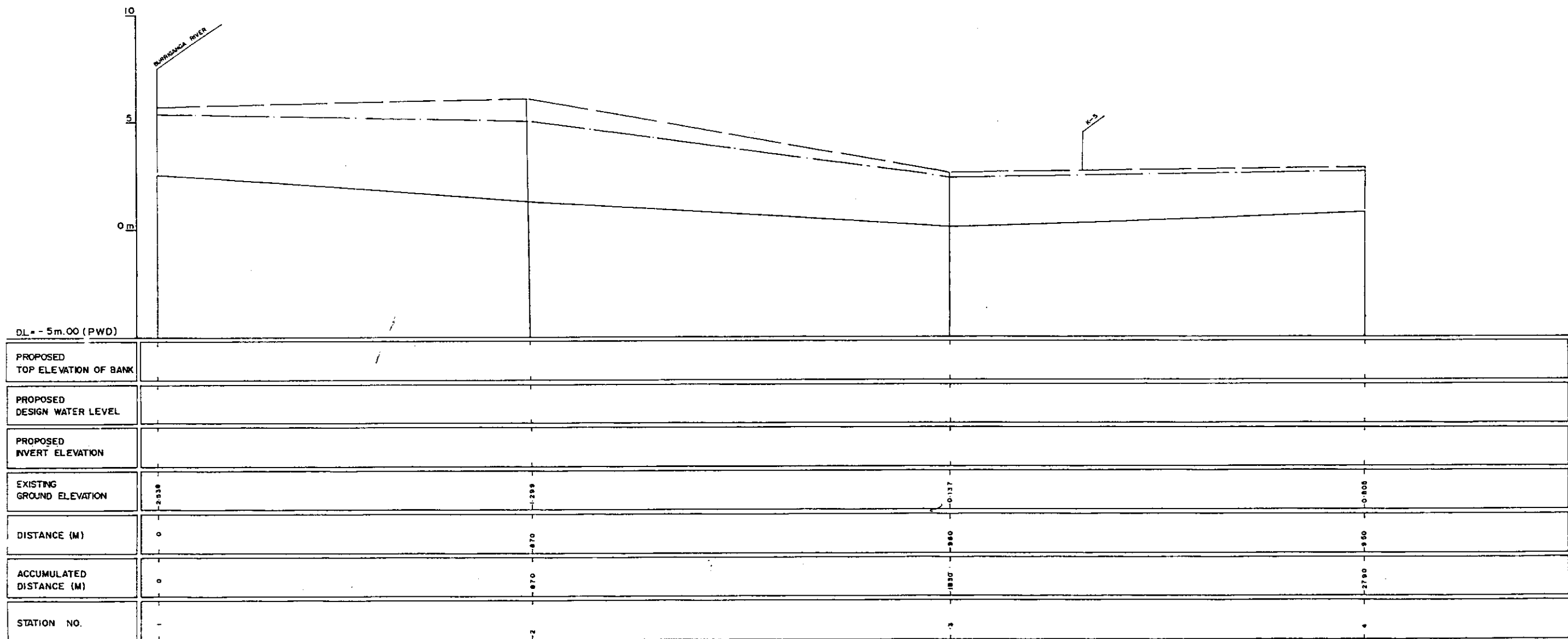
DL 0+000

DL 0+000

* L/R RACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)		
BANGLADESH FLOOD ACTION PLAN NO.8A		
DHAKA METROPOLITAN AREA		
CROSS SECTION OF CANAL		
K-3		
SCALE	H=1:200 V=1:100	
DWG. NO.	KK.C4	DATE
JAPAN INTERNATIONAL CO-OPERATION AGENCY		

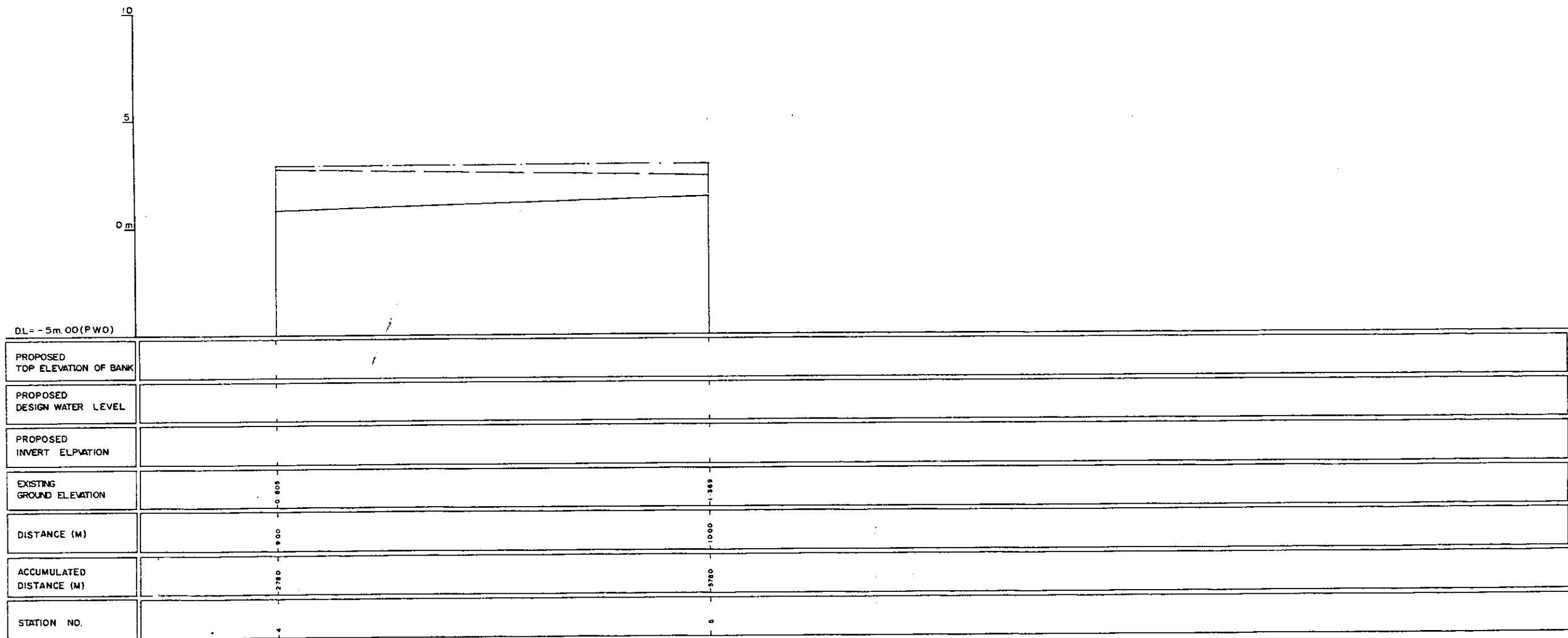
27/6



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
K-4		SCALE	H: 5000 V: 100
DWG. NO.	KK L4	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

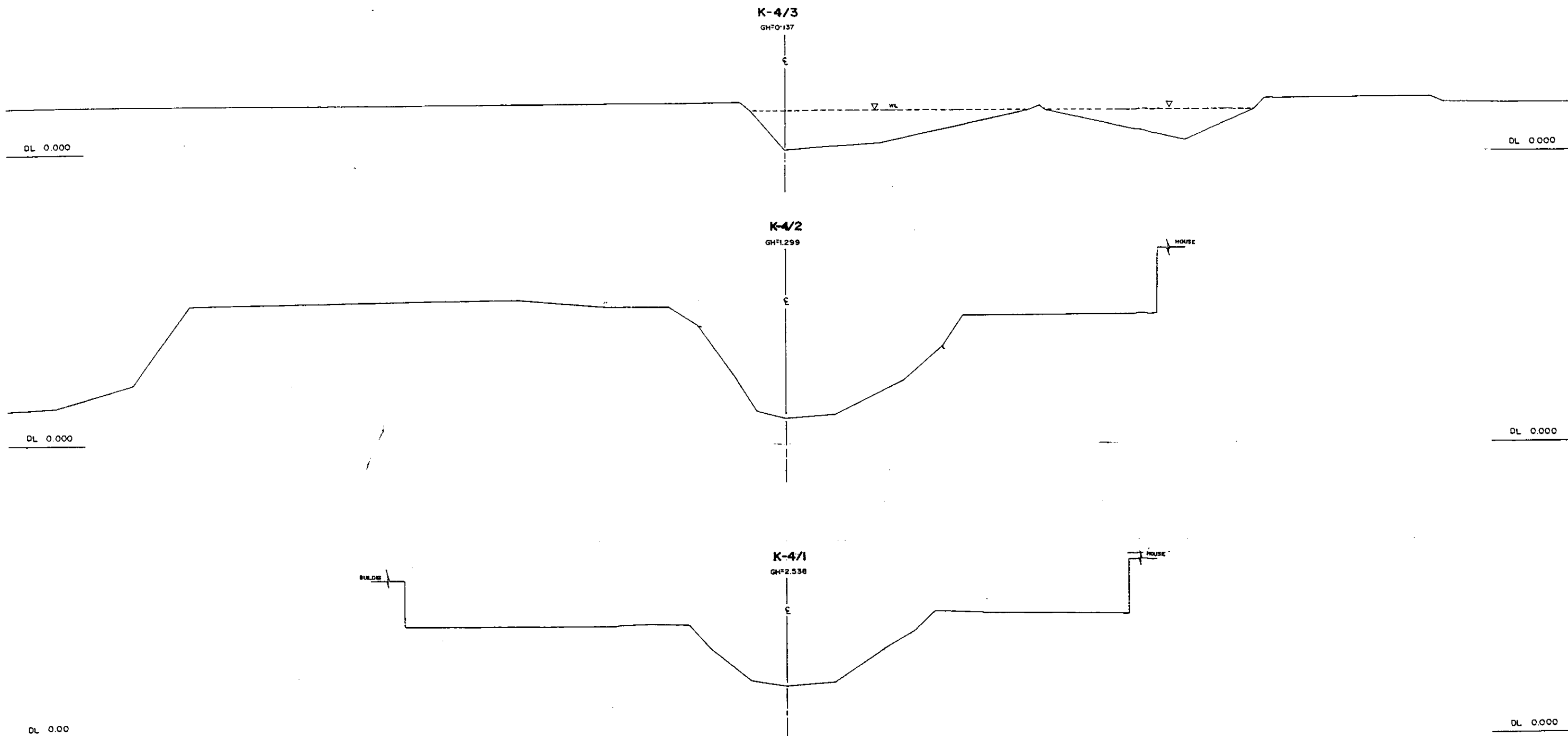
2028



LEGEND
EXISTING LEFT GROUND LINE -----
EXISTING RIGHT GROUND LINE -----
EXISTING BOTTOM LINE -----
* L/R FACING TO UP STRAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
K-4		SCALE	H:1 5000 V:1 100
OWG. NO.	KK L 5	DATE	March 1994
JAPAN INTERNATIONAL COOPERATION AGENCY			

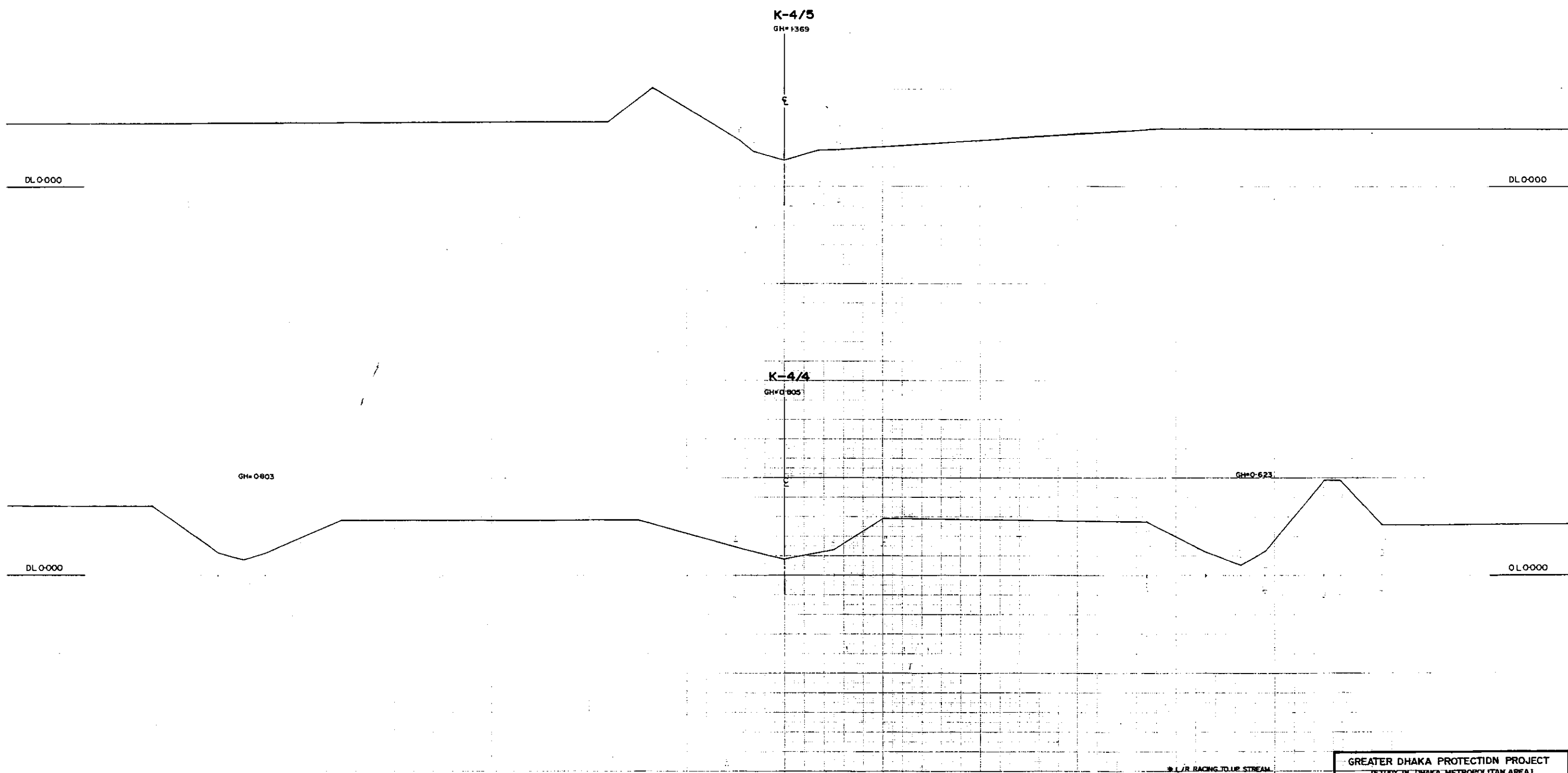
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* L/R RACING TO UP STREAM

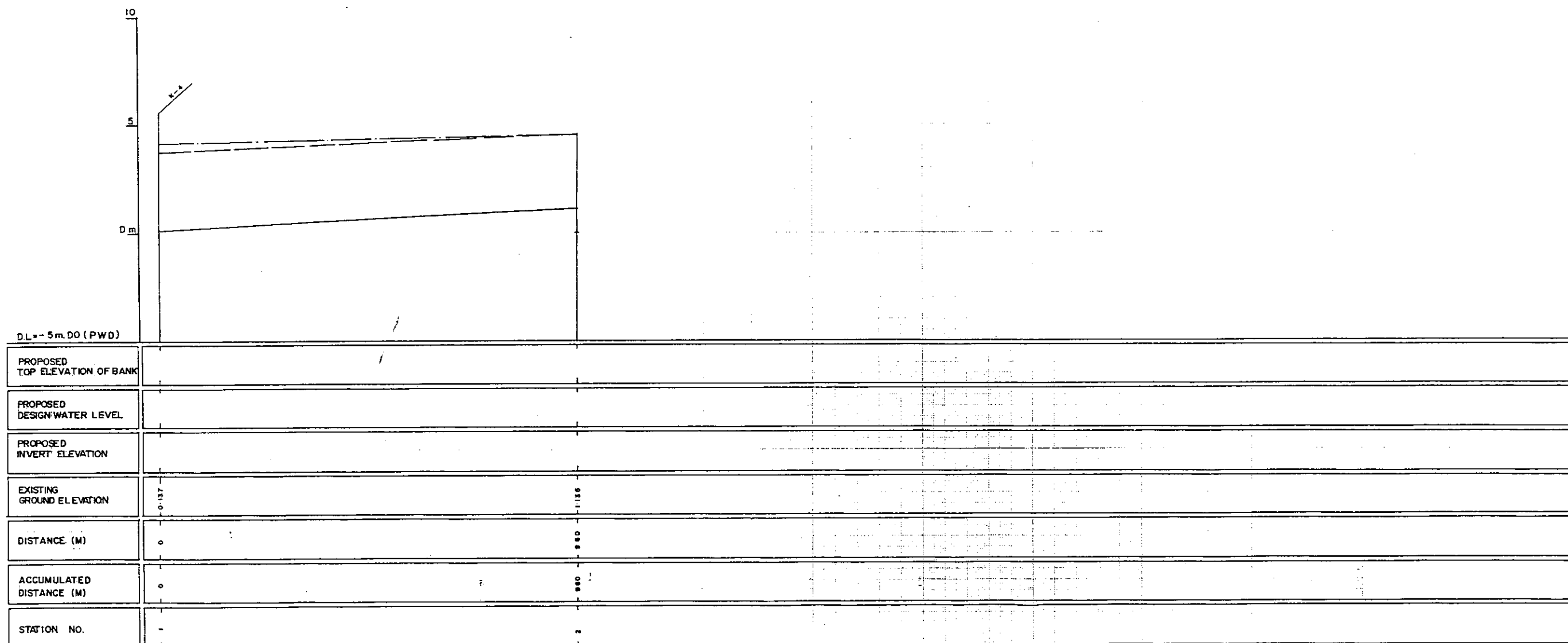
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
K-4		SCALE	H=1:200 V=1:100
DWG. NO.	KK C 5	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

223



GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
OWG. NO.	K-4	SCALE	H=1:200 V=1:100
	K.K.G.	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

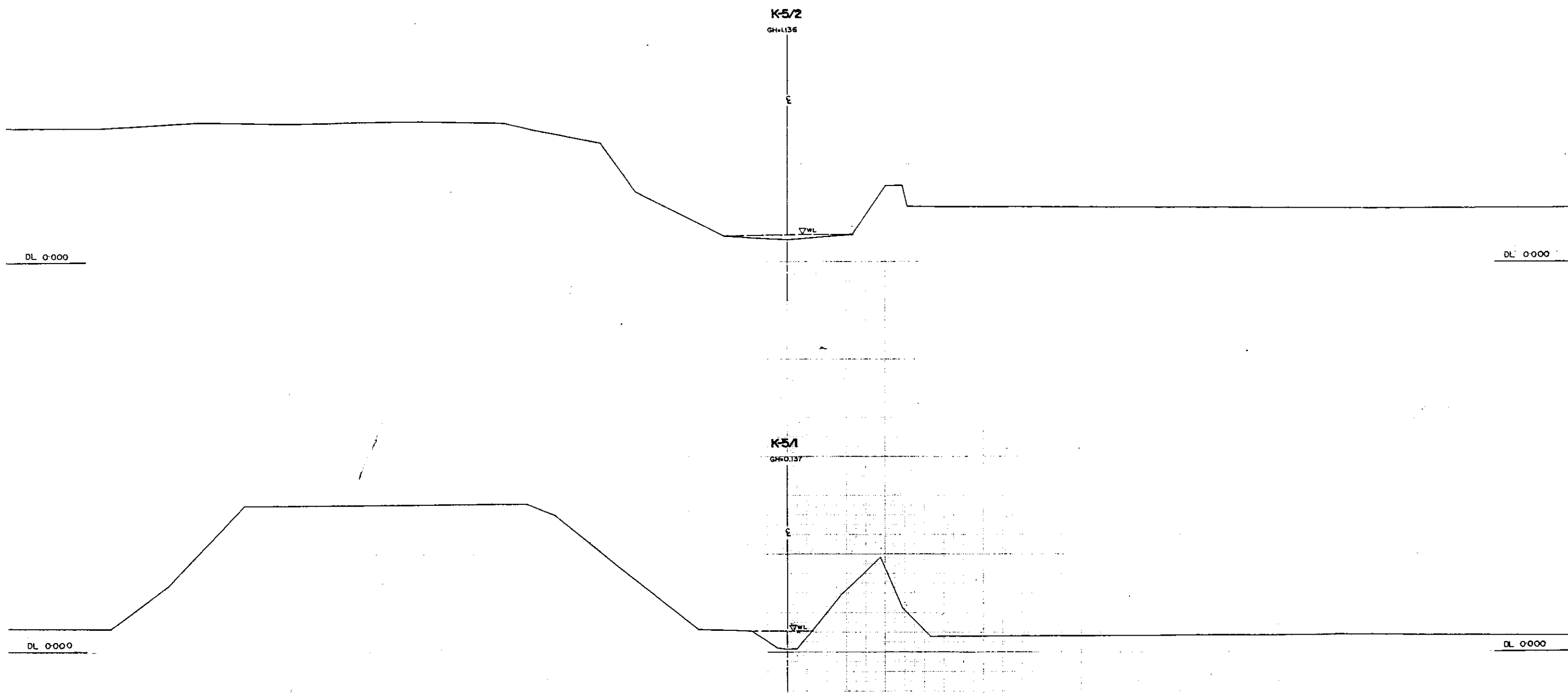
2029



LEGEND
 EXISTING LEFT GROUND LINE
 EXISTING RIGHT GROUND LINE
 EXISTING BOTTOM LINE
 * L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA-METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
K-5	SCALE	H=1:5000 V=1:100	
OWG. NO. K-5 L 6	DATE	March 1991	
JAPAN INTERNATIONAL COOPERATION AGENCY			

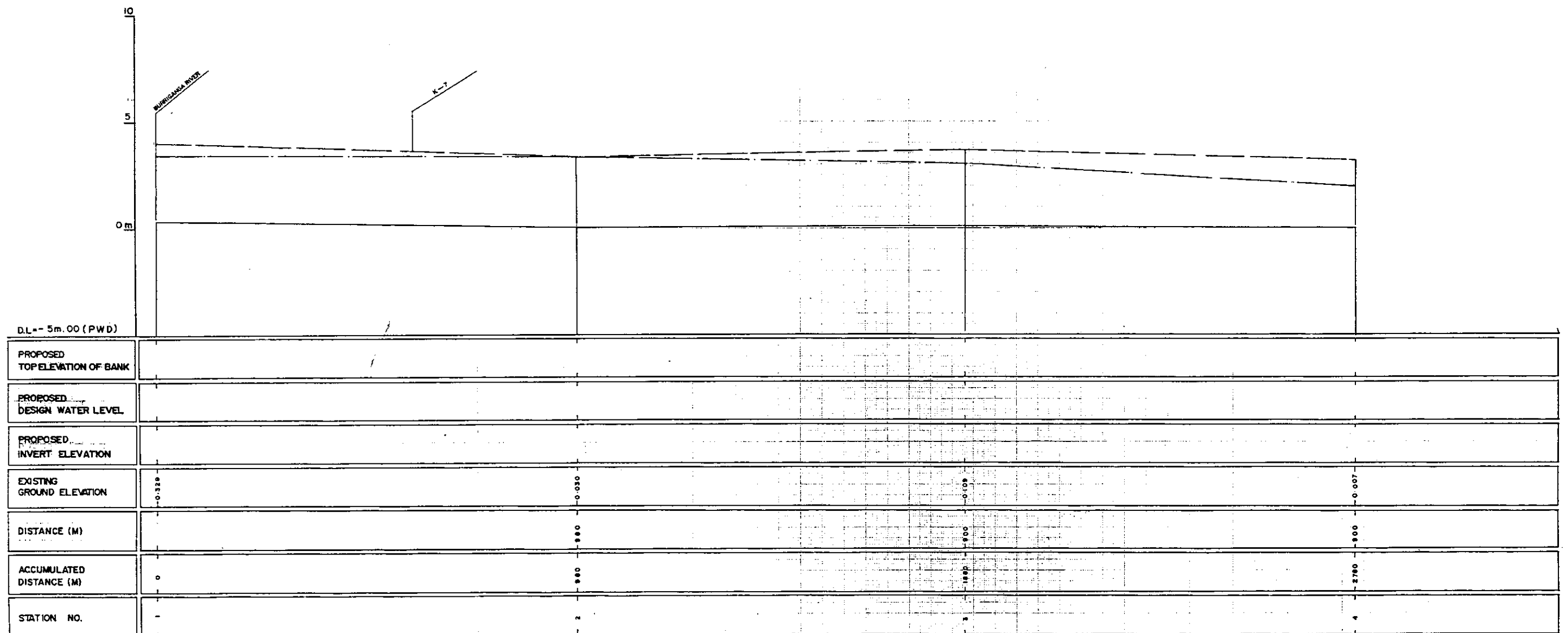
mt



HL/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA I)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
K-5		SCALE	W:1:200 V:1:100
DWG. NO.	KK C7	DATE	March 1998
JAPAN INTERNATIONAL CO OPERATION AGENCY			

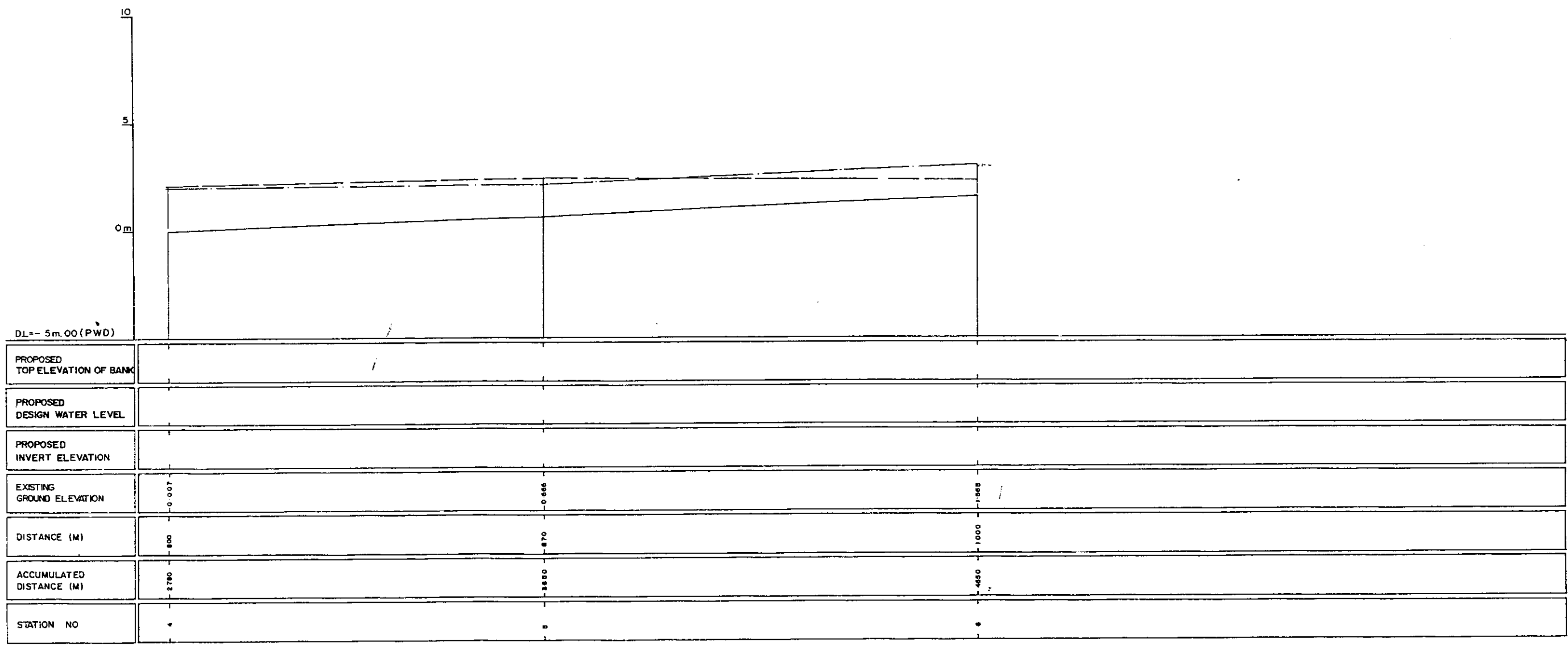
০২৩২



LEGEND

EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A DHAKA METROPOLITAN AREA LONG SECTION OF CANAL			
K-6		SCALE	H=1:5000 V=1:100
DWG. NO.	KK-L7	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

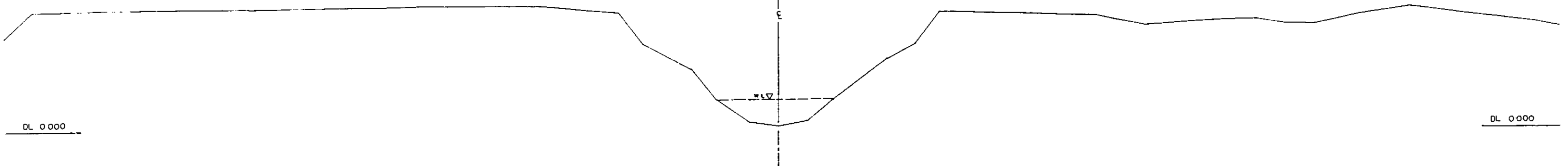


LEGEND
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 EXISTING RIGHT GROUND LINE - - - - -
 EXISTING BOTTOM LINE - - - - -
 * L R FACING TO UP STREAM

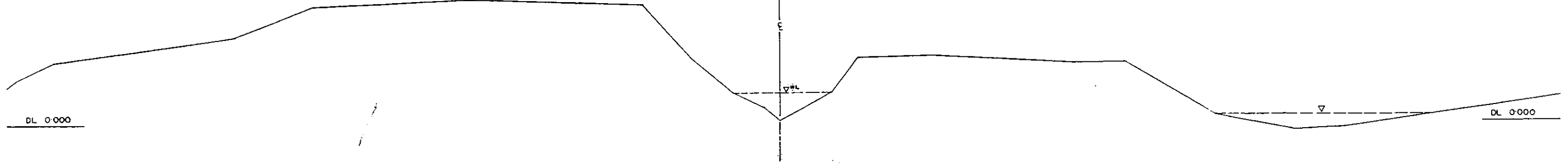
GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLDDD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
K-6	SCALE	H=1:5000 V=1:100	
DWG. NO.	KK L8	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

202

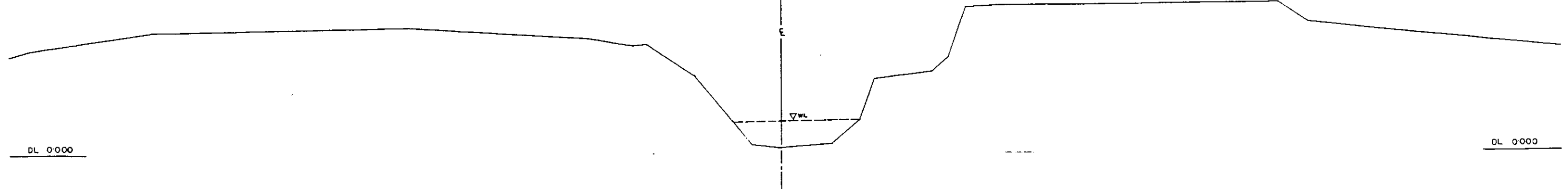
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GM+0109



K-6/2
GM+0030

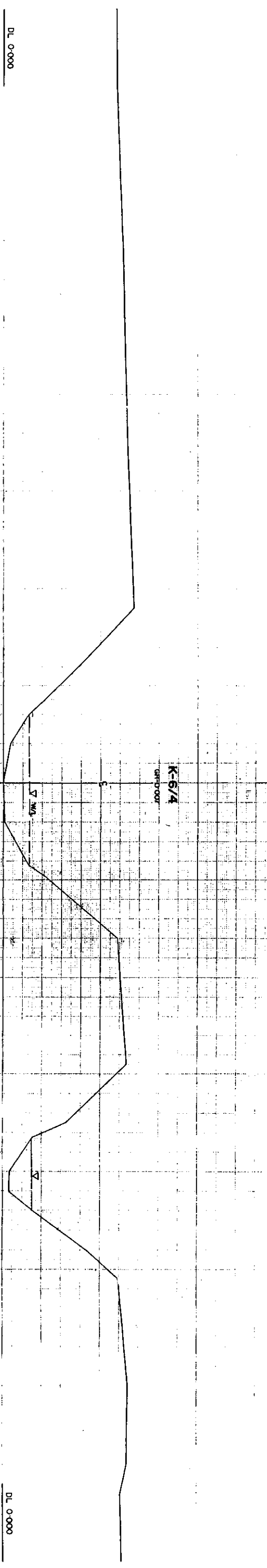
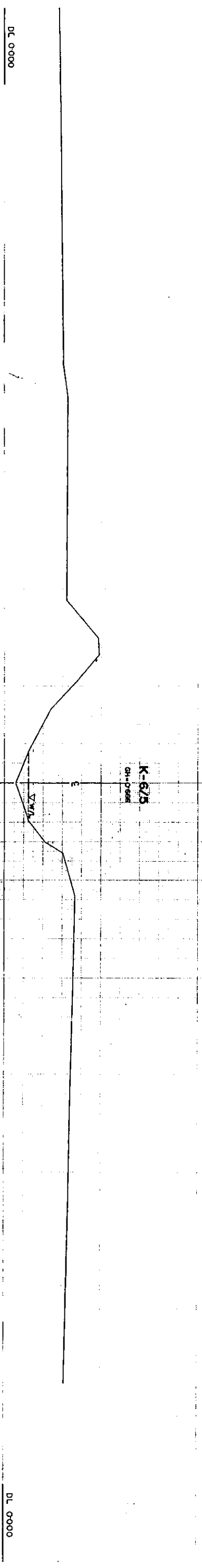
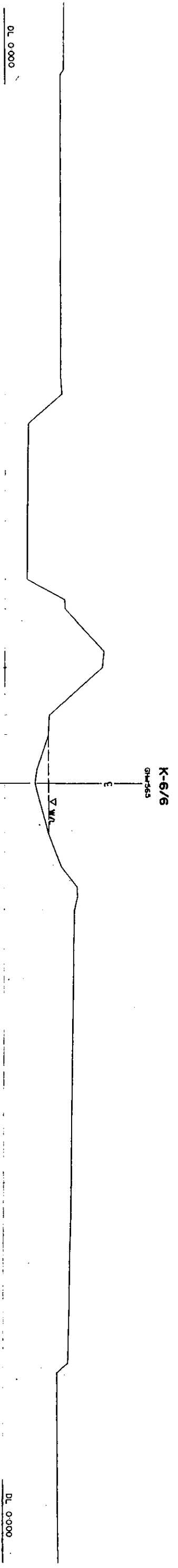


K-6/1
GM+0329



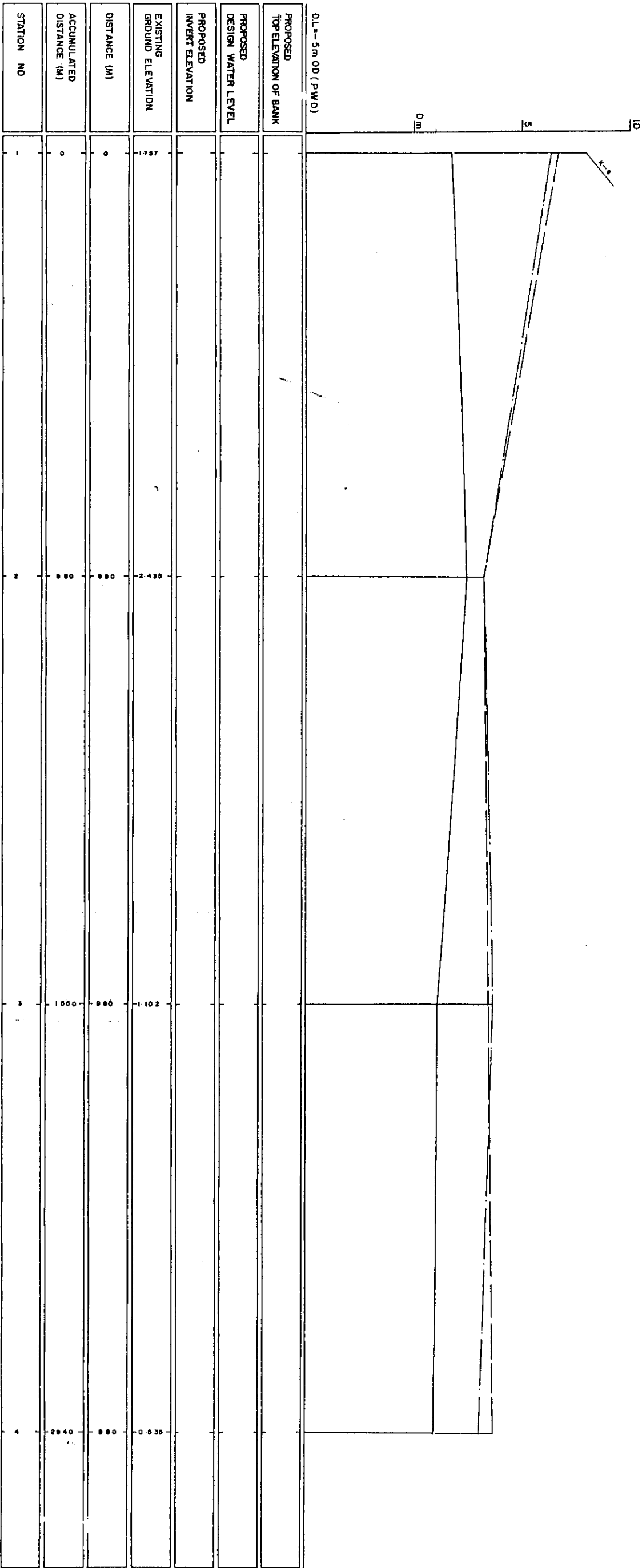
* L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA) BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA CROSS SECTION OF CANAL			
K-6	SCALE	1:200	1:100
DWG. NO. KKK C8	DATE	March	1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			



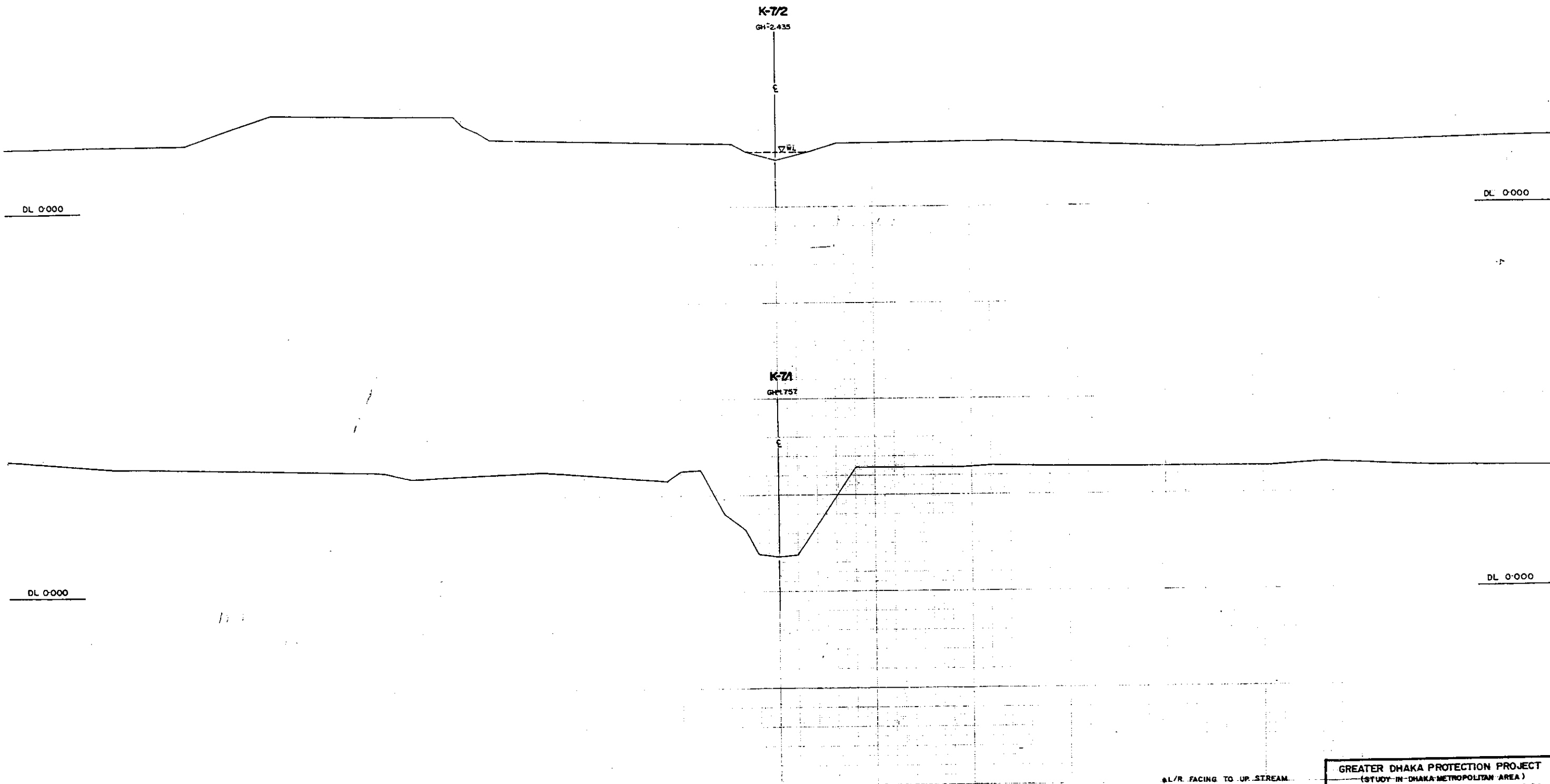
SL/BL FACING TO LIP STREAM

GREATER DHAKA PROTECTION PROJECT			
STUDY IN THUNDER METROPOLITAN AREA			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
DATE	SCALE	DATE	SCALE
1991	1:1000	1991	1:1000
JAPAN INTERNATIONAL COOPERATION AGENCY			



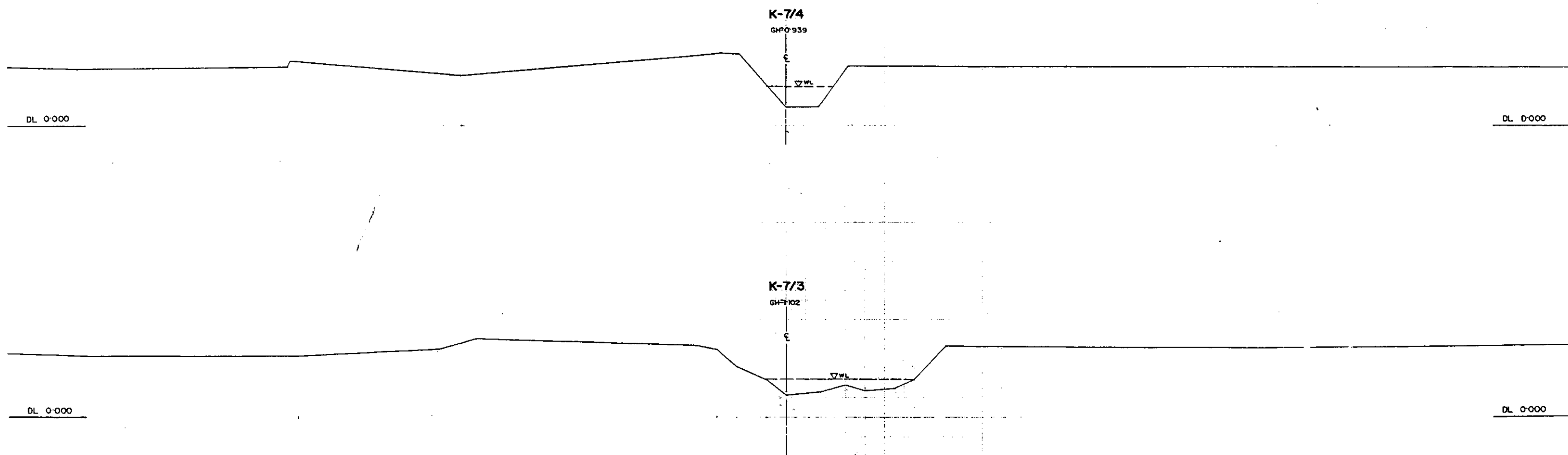
LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TO UP STREAM

208



GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
K-7		SCALE	H=1:200 V=1:100
DWG. NO.	KK.C.10	DATE	March 1991
JAPAN INTERNATIONAL CO OPERATION AGENCY			

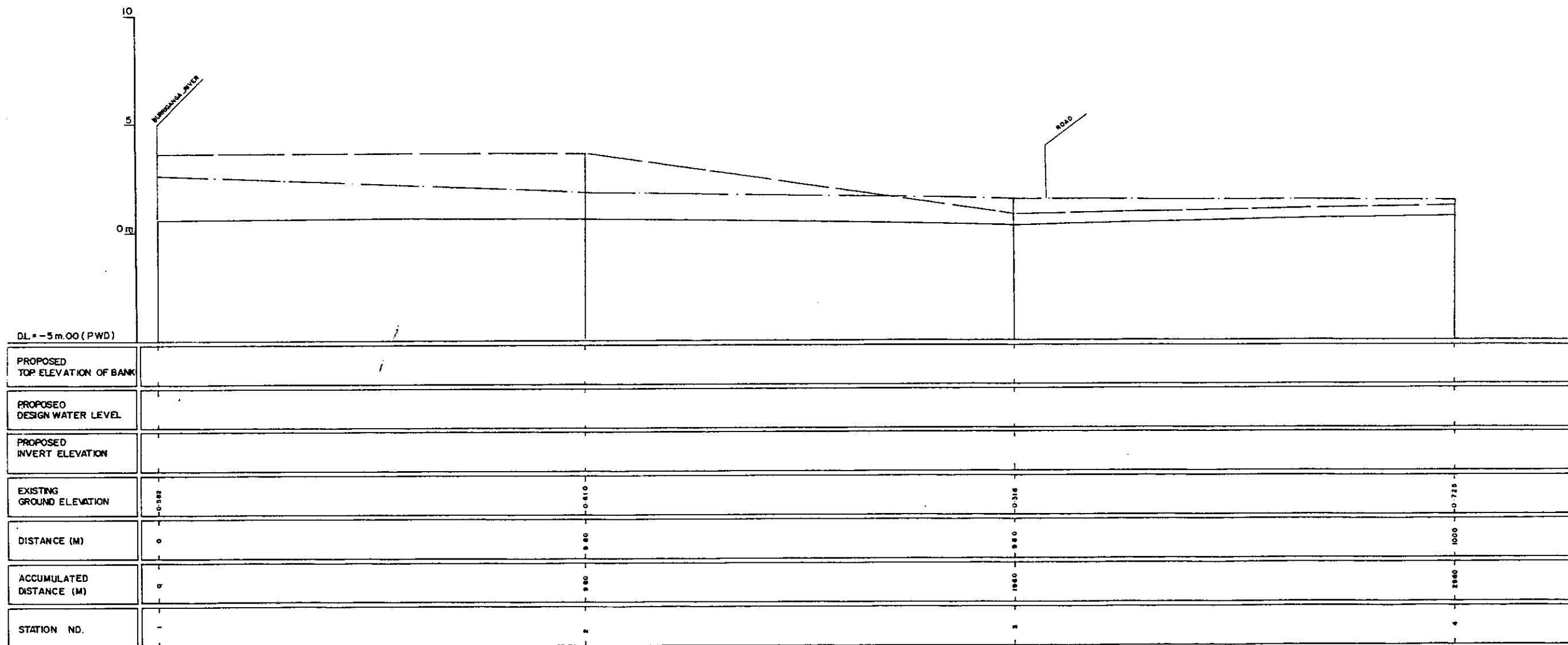
200



*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
K-7		SCALE	H=1:200 V=1:100
DWG. NO.	KK-C-8.	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

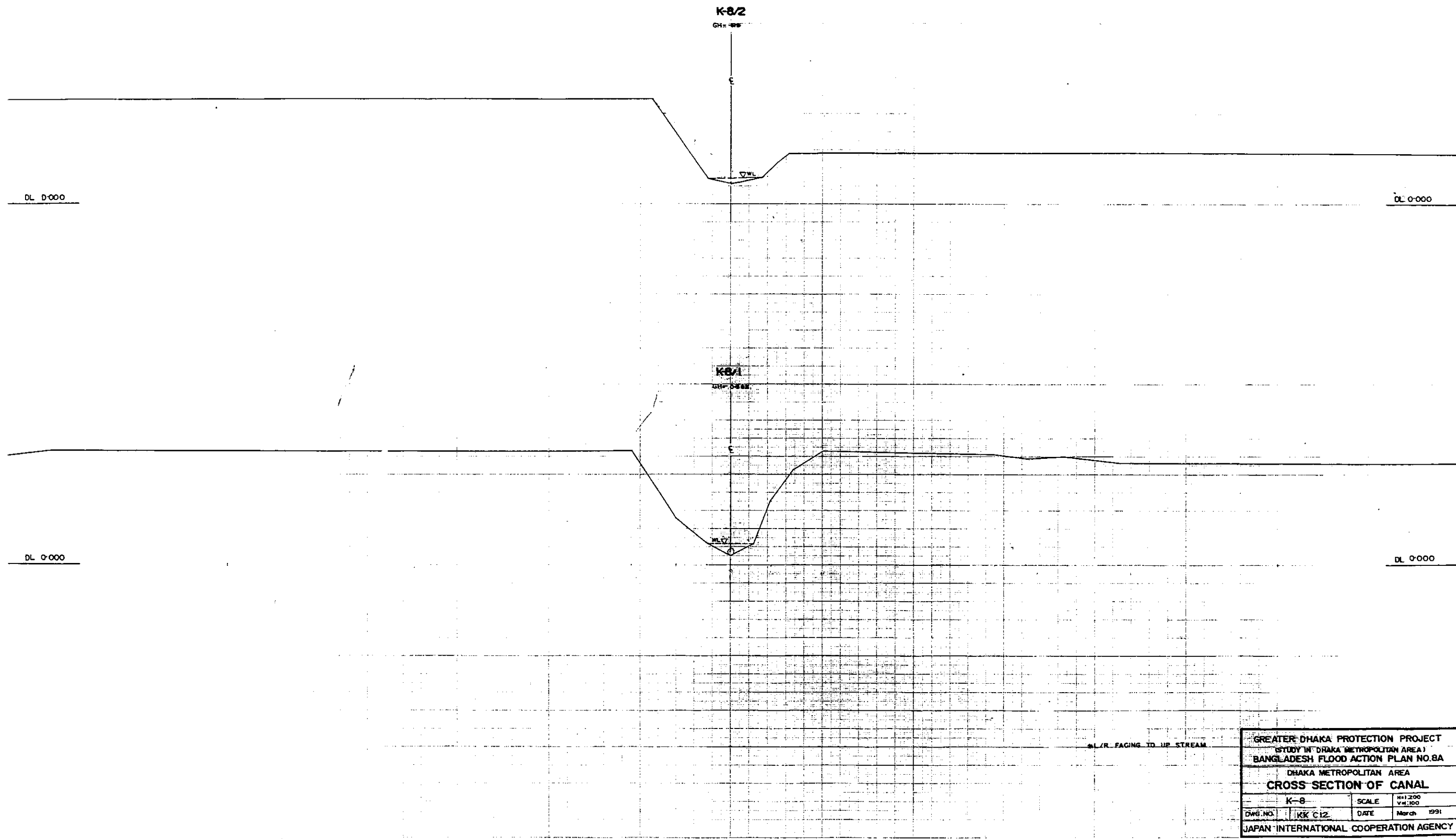
203



LEGEND
 EXISTING LEFT GROUND LINE ---
 EXISTING RIGHT GROUND LINE ---
 EXISTING BOTTOM LINE ---
 *L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT (STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
LONG SECTION OF CANAL			
K-8		SCALE	H:1:5000 V:1:100
DWG. NO.	KK LIO	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

28

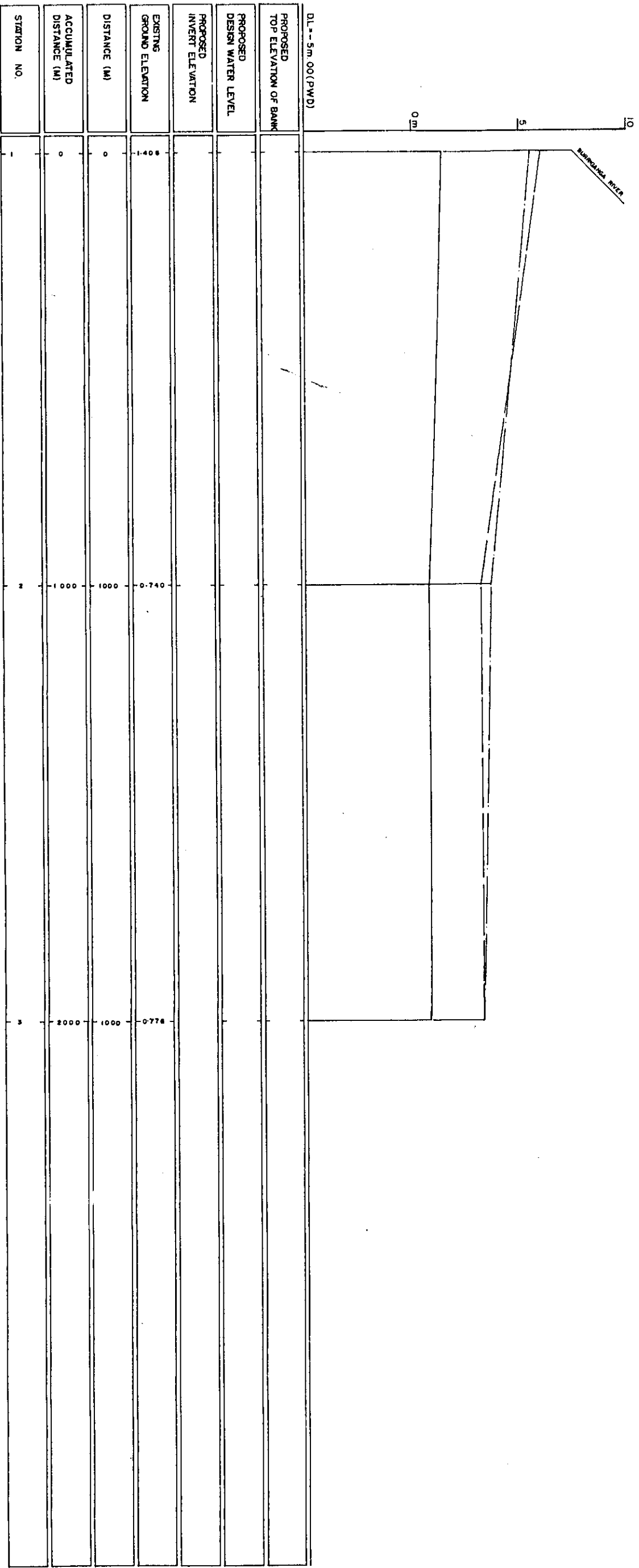


GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
K-8		SCALE	H=1:200 V=1:100
DWG. NO.	KK C12	DATE	March 1991
JAPAN INTERNATIONAL COOPERATION AGENCY			

2015

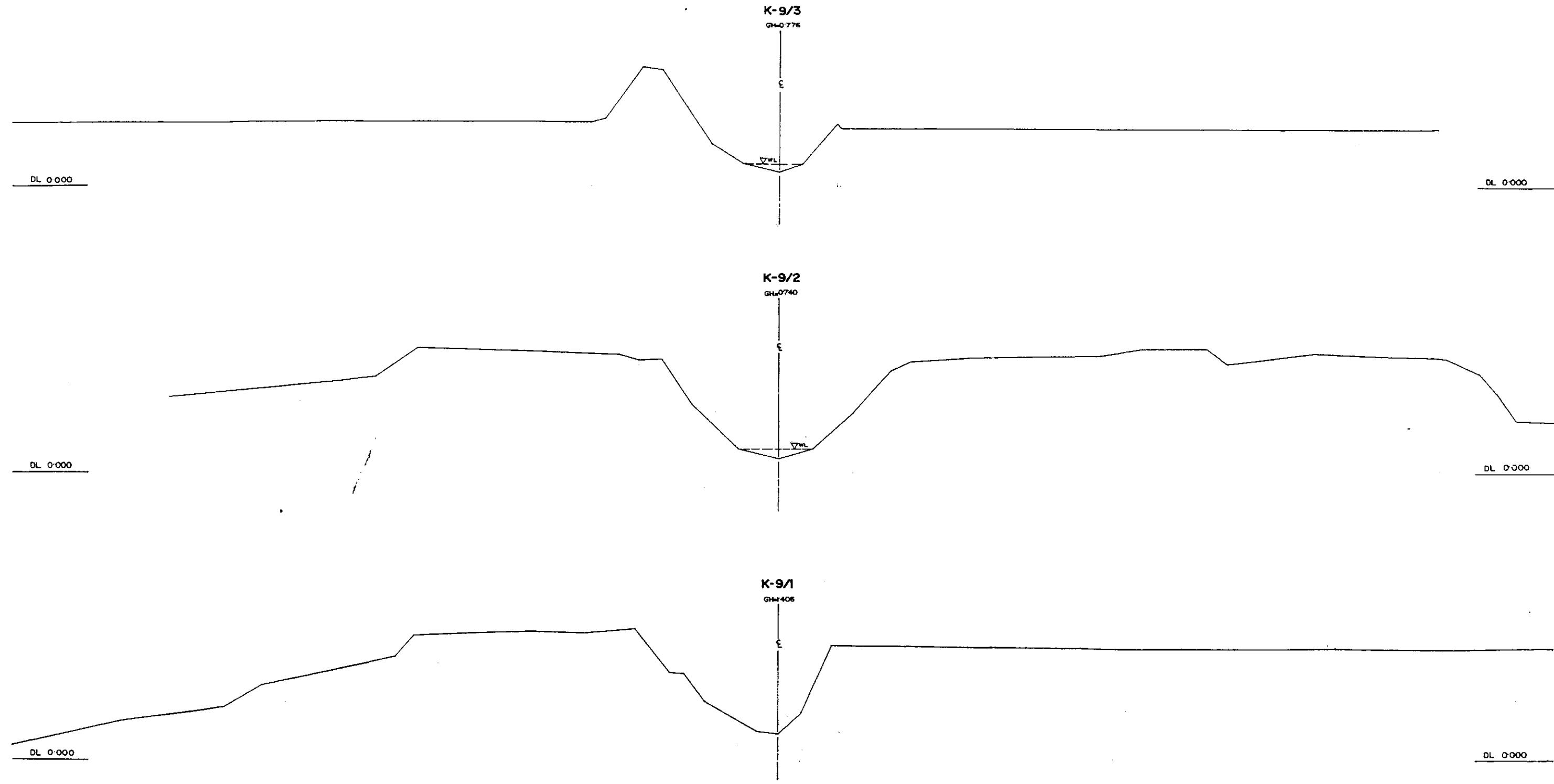


202



LEGEND
EXISTING LEFT GROUND LINE
EXISTING RIGHT GROUND LINE
EXISTING BOTTOM LINE
* L/R FACING TO UP STREAM

220



*L/R FACING TO UP STREAM

GREATER DHAKA PROTECTION PROJECT			
(STUDY IN DHAKA METROPOLITAN AREA)			
BANGLADESH FLOOD ACTION PLAN NO.8A			
DHAKA METROPOLITAN AREA			
CROSS SECTION OF CANAL			
K-9		SCALE	H=1:200 V=1:100
DWG. NO.	KK C14	DATE	March 1994
JAPAN INTERNATIONAL CO OPERATION AGENCY			