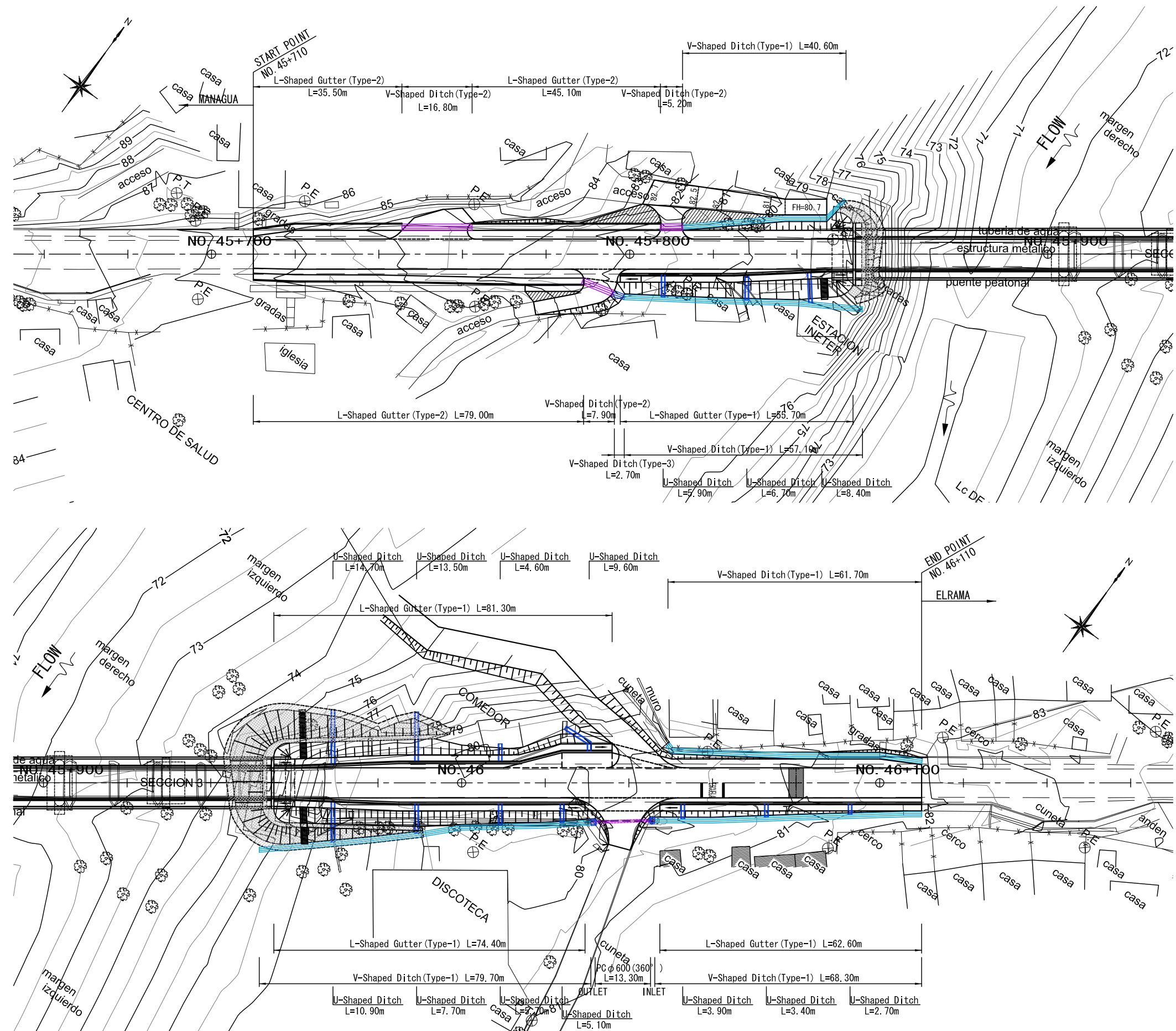




MINISTRY OF
TRANSPORT AND INFRASTRUCTURE
(MTI)

THE PREPATORY STUDY ON
THE PROJECT FOR RECONSTRUCTION OF BRIDGES
ON MANAGUA - EL RAMA ROAD
IN THE REPUBLIC OF NICARAGUA

JAPAN INTERNATIONAL COOPERATION AGENCY
CTI ENGINEERING INTERNATIONAL CO., LTD.

TITLE :

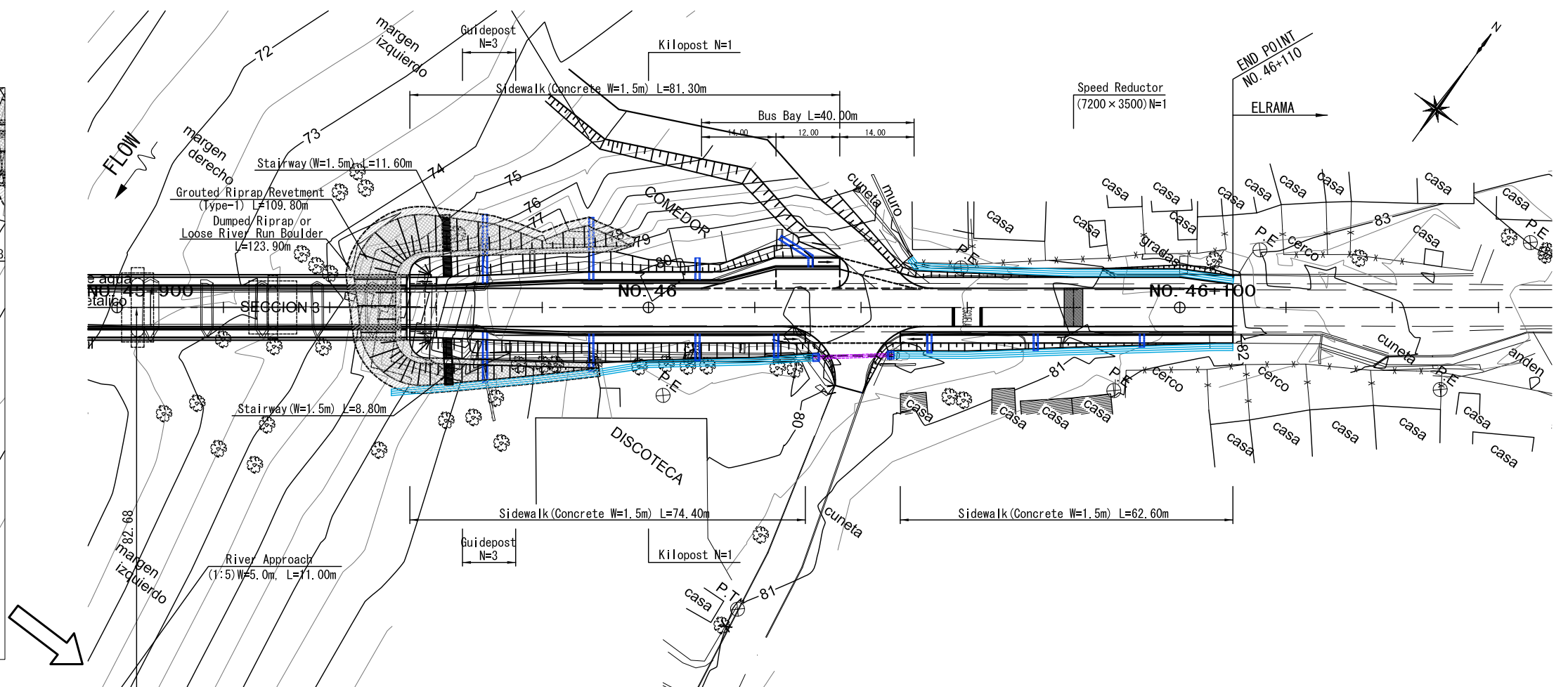
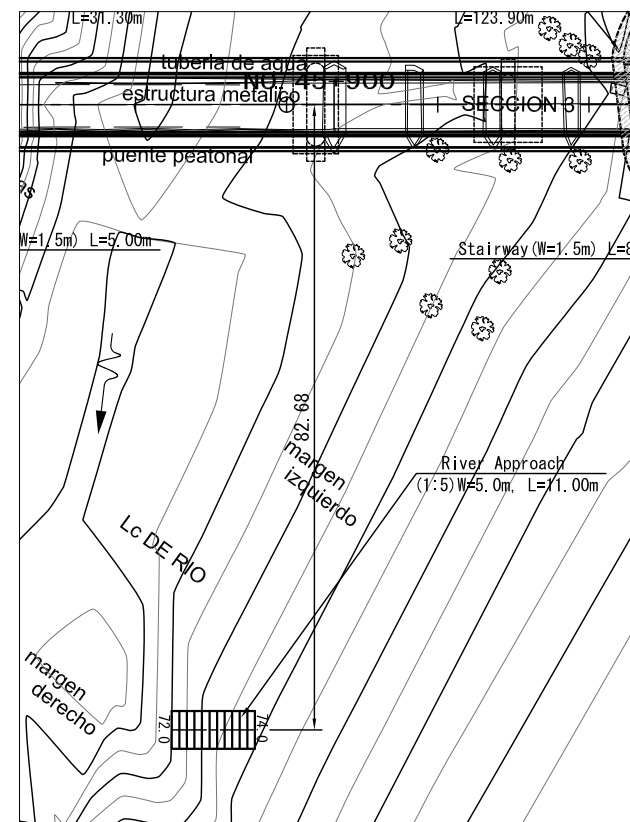
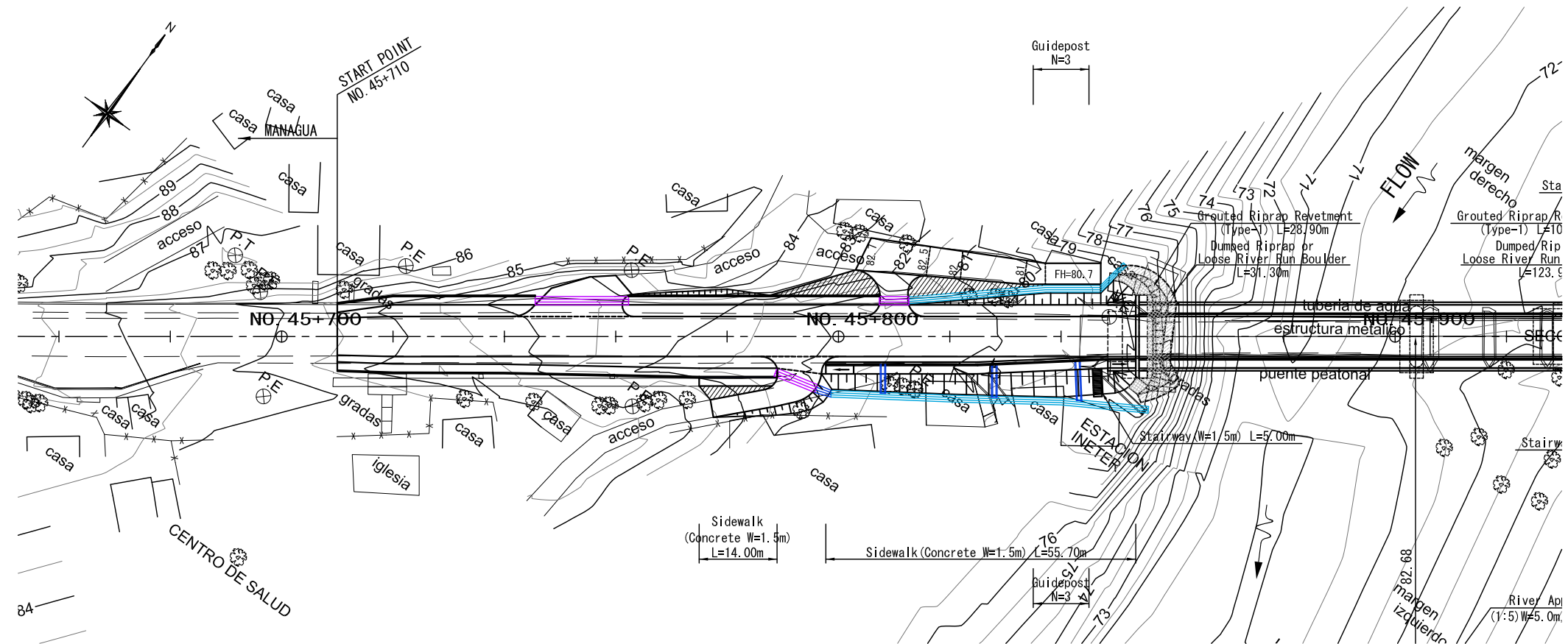
PLAN OF APPROACH ROAD
(DRAINAGE FACILITIES)

SCALE(A1size)

S=1:500

Drawing No.

LB-09



MINISTRY OF
TRANSPORT AND INFRASTRUCTURE
(MTI)

THE PREPATORY STUDY ON
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ON MANAGUA - EL RAMA ROAD
IN THE REPUBLIC OF NICARAGUA

JAPAN INTERNATIONAL COOPERATION AGENCY
CTI ENGINEERING INTERNATIONAL CO., LTD.

TITLE :

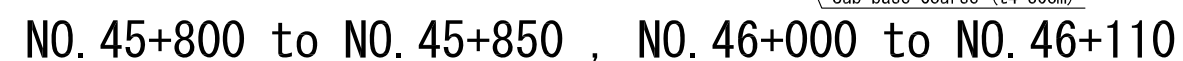
PLAN OF APPROACH ROAD
(ROAD ANCILLARY WORKS)

SCALE(A1size)

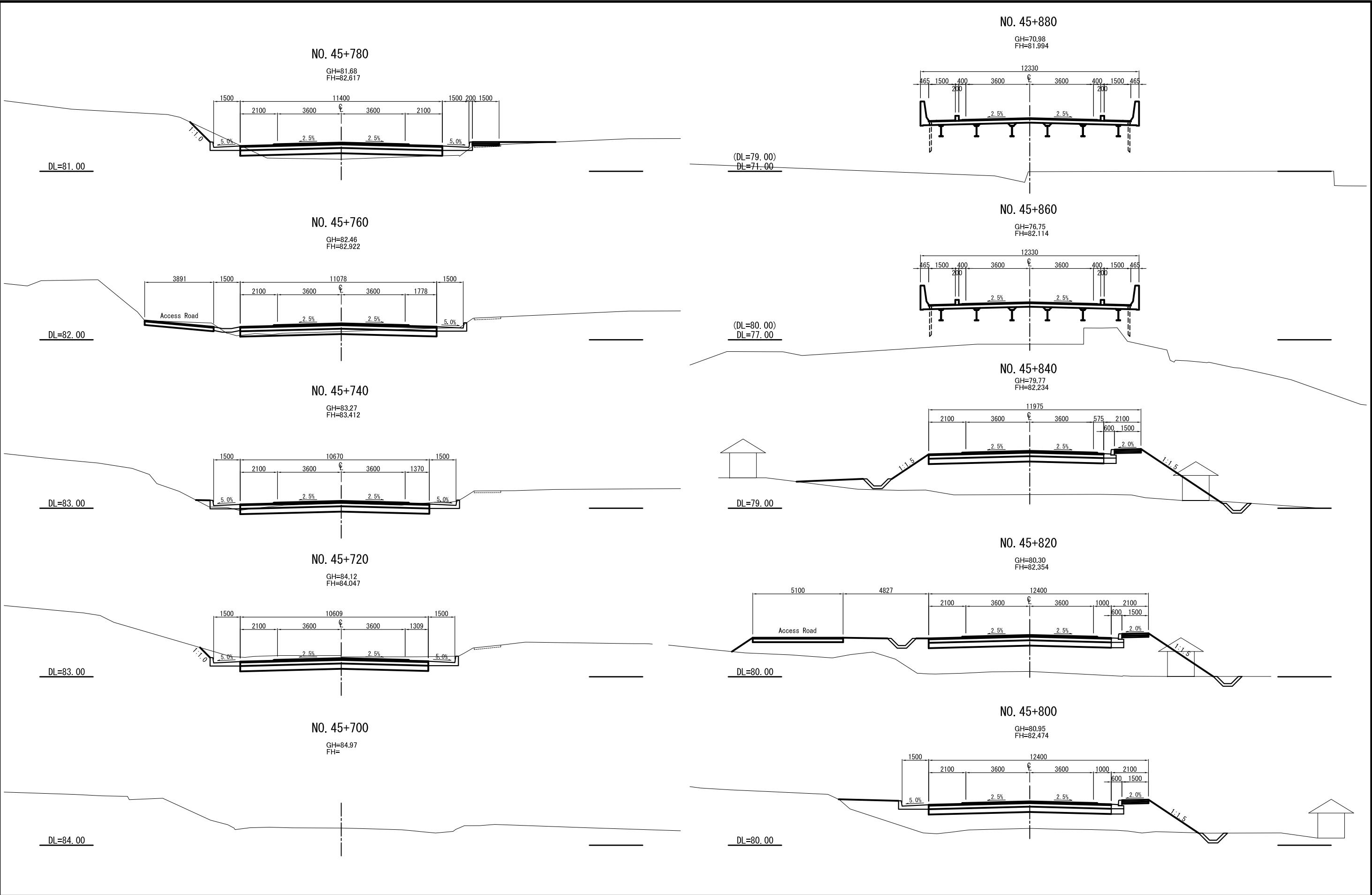
S=1:500

Drawing No.

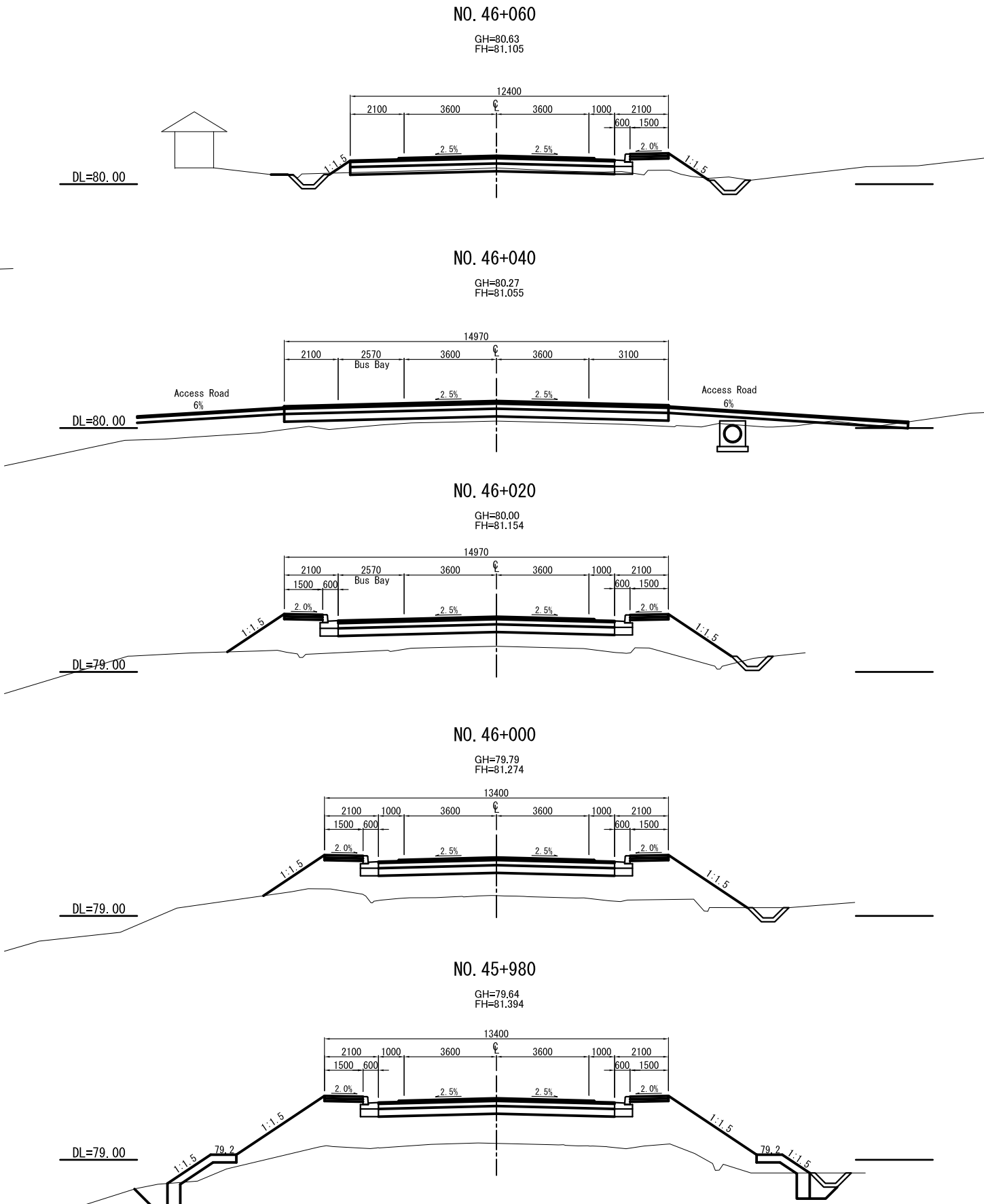
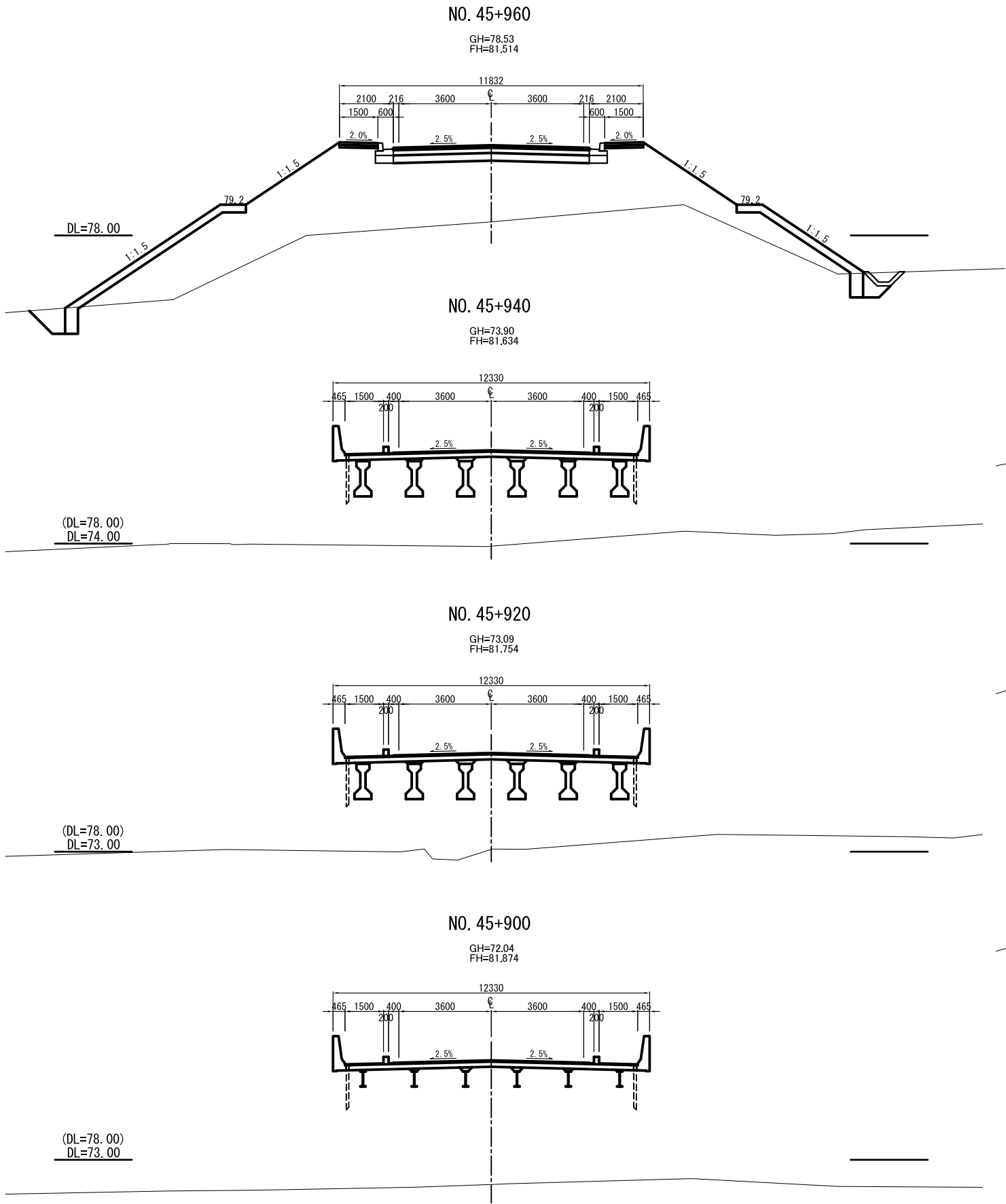
LB-10



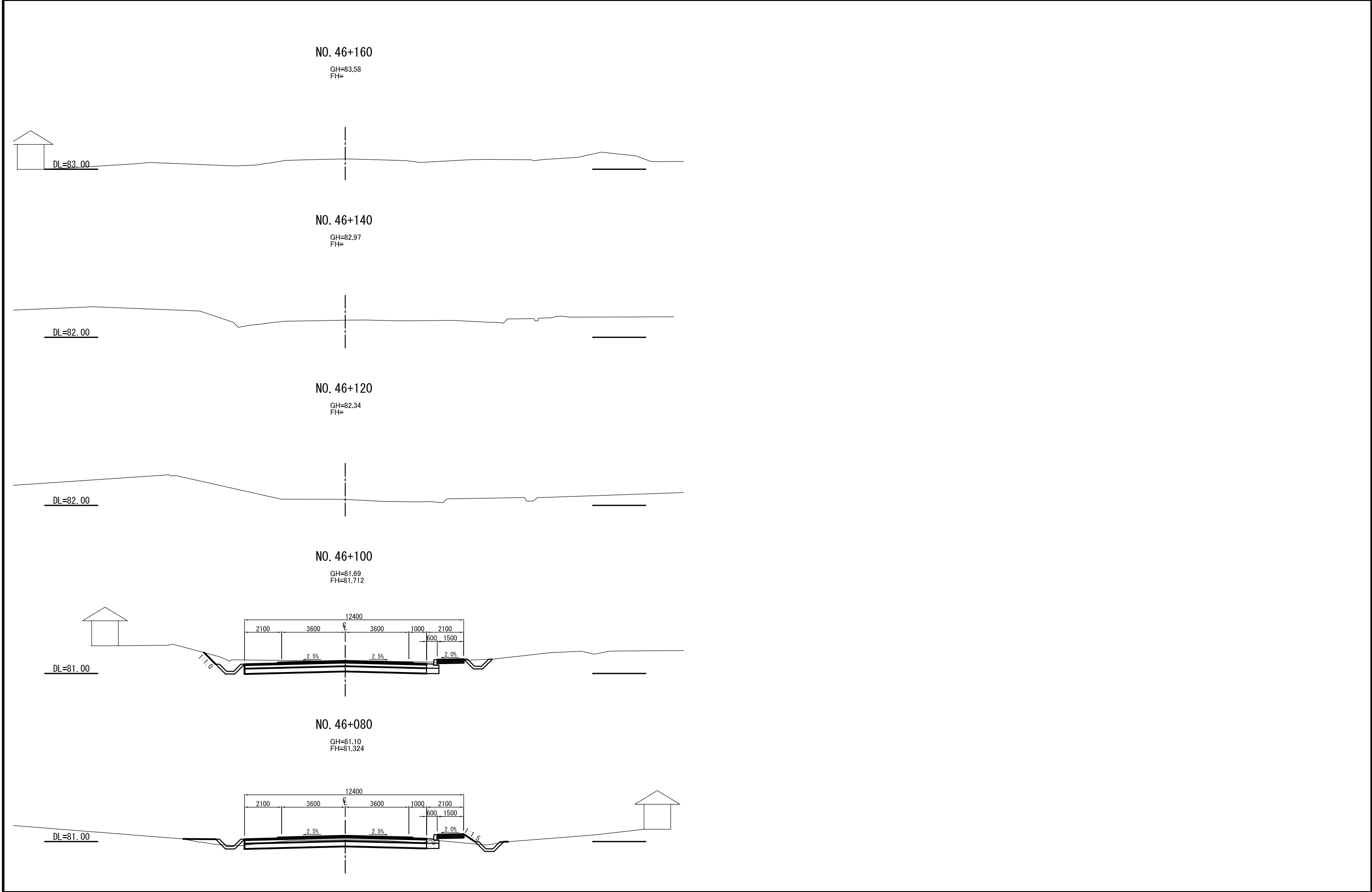
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. ASPHALT OF THE EXISTING ROAD WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED COMPLETELY.
3. CEMENT MORTAR FOR GROUTED RIPRAP REVETMENT . GUTTER AND DITCHES SHALL BE ONE PART PORTLAND CEMENT AND THREE PARTS SAND.



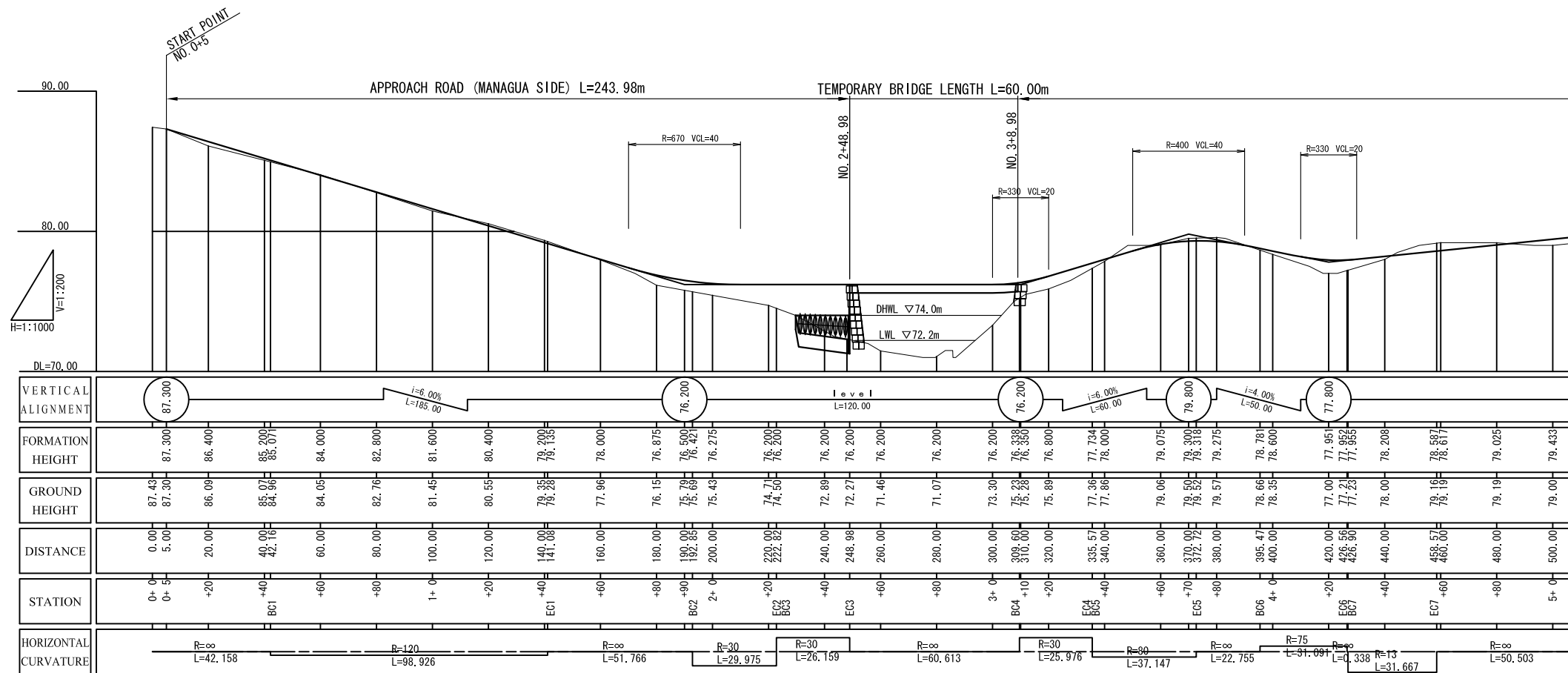
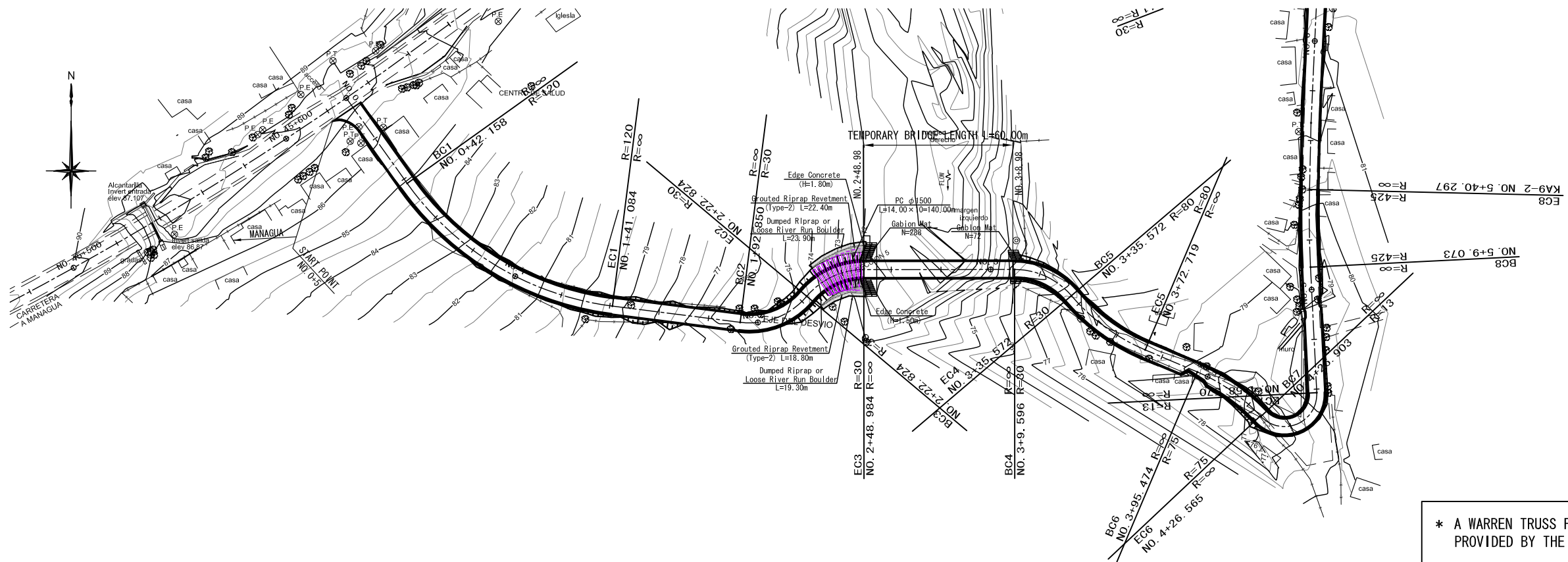
MINISTRY OF TRANSPORT AND INFRASTRUCTURE (MTI)	THE PREPATORY STUDY ON THE PROJECT FOR RECONSTRUCTION OF BRIDGES ON MANAGUA - EL RAMA ROAD IN THE REPUBLIC OF NICARAGUA	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE : CROSS SECTION OF APPROACH ROAD (1/3)	SCALE(A1size) S=1:100	Drawing No. LB-12
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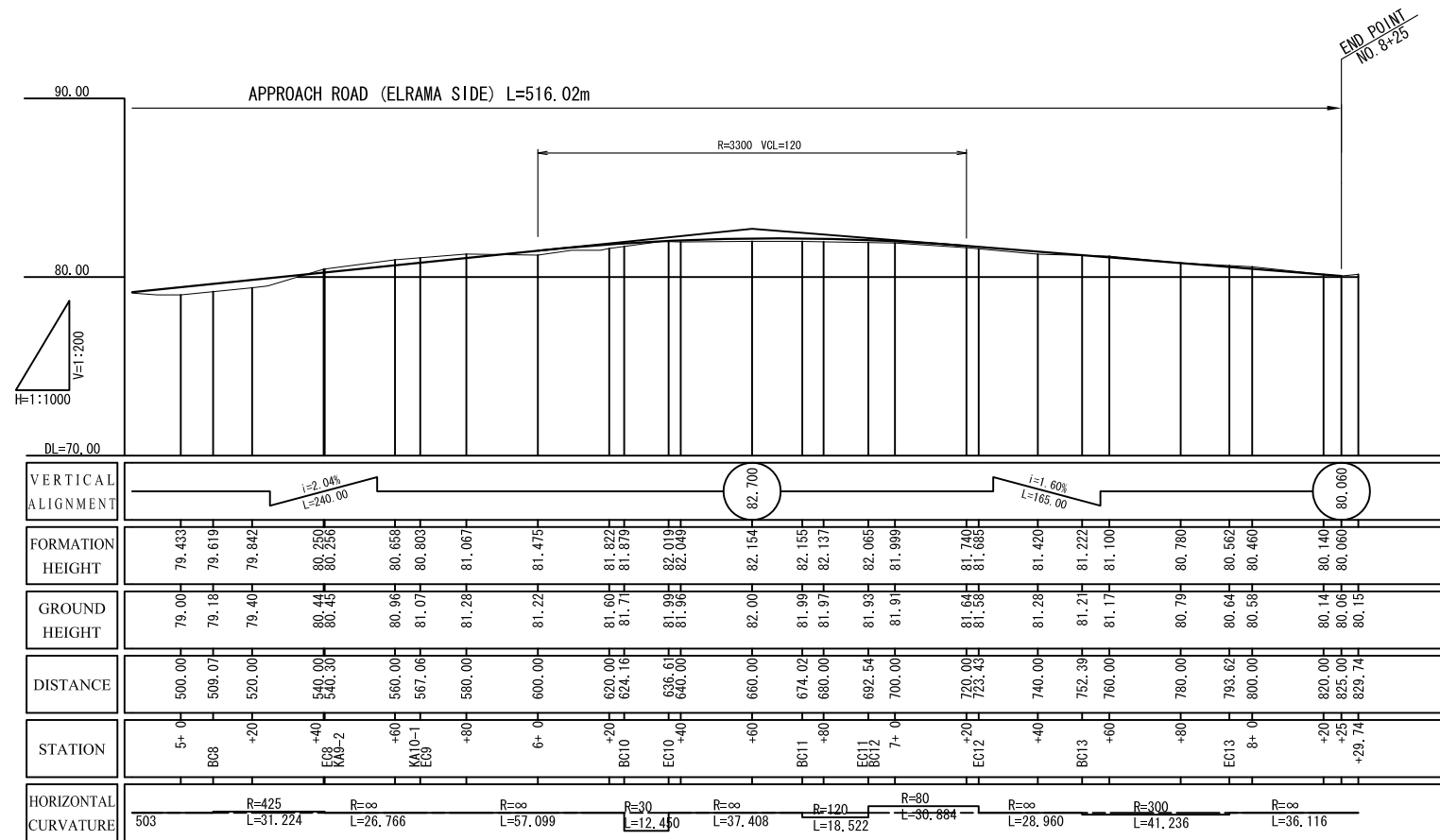
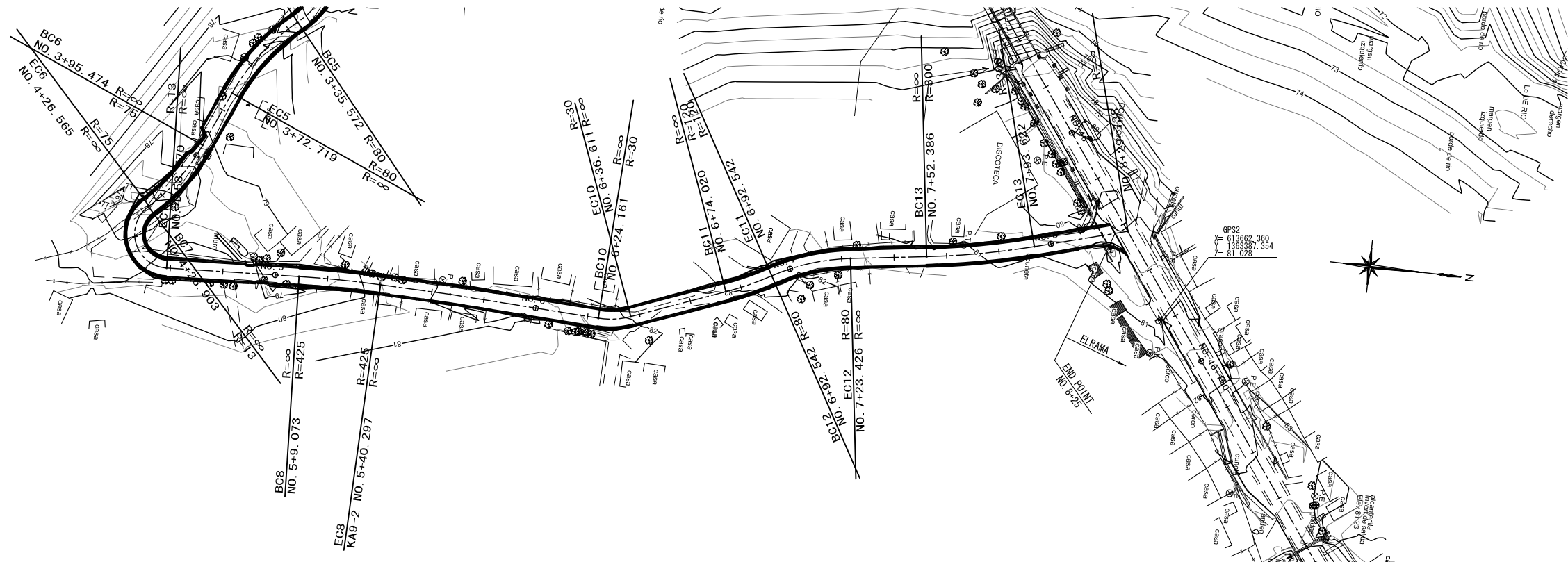


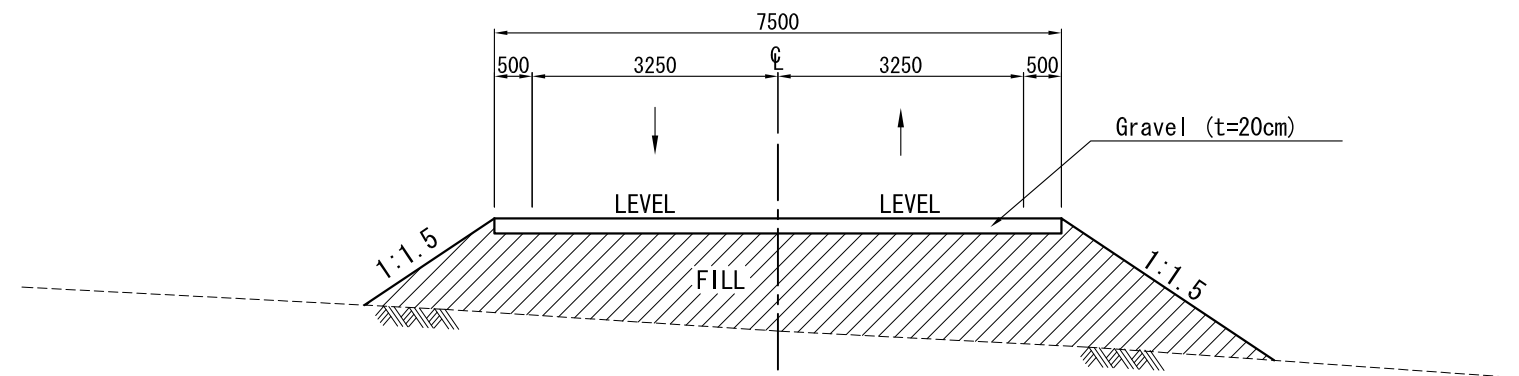
MINISTRY OF TRANSPORT AND INFRASTRUCTURE (MTI)	THE PREPATORY STUDY ON THE PROJECT FOR RECONSTRUCTION OF BRIDGES ON MANAGUA - EL RAMA ROAD IN THE REPUBLIC OF NICARAGUA	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE : CROSS SECTION OF APPROACH ROAD (2/3)	SCALE(A1size) S=1:100	Drawing No. LB-13
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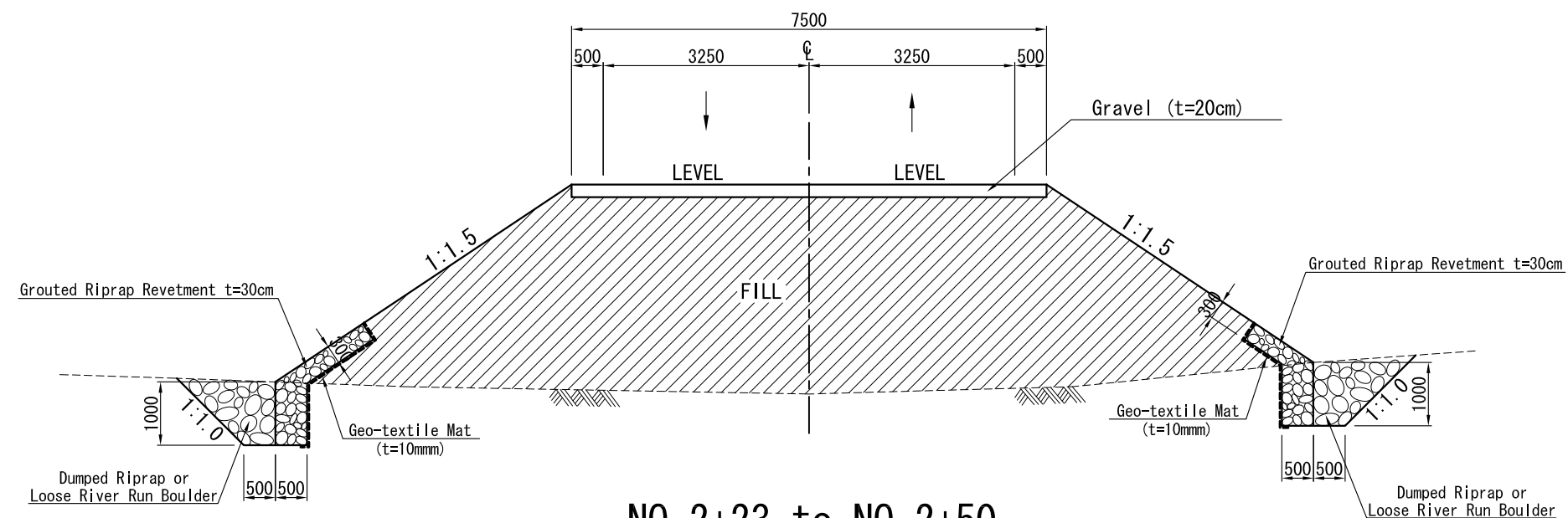
MINISTRY OF TRANSPORT AND INFRASTRUCTURE (MTI)	THE PREPATORY STUDY ON THE PROJECT FOR RECONSTRUCTION OF BRIDGES ON MANAGUA - EL RAMA ROAD IN THE REPUBLIC OF NICARAGUA	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE : CROSS SECTION OF APPROACH ROAD (3/3)	SCALE(A1size) S=1:100	Drawing No. LB-14
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NO. 0+5 to NO. 2+23 , NO. 2+50 to NO. 8+25
(EXCLUDING BRIDE SECTION)

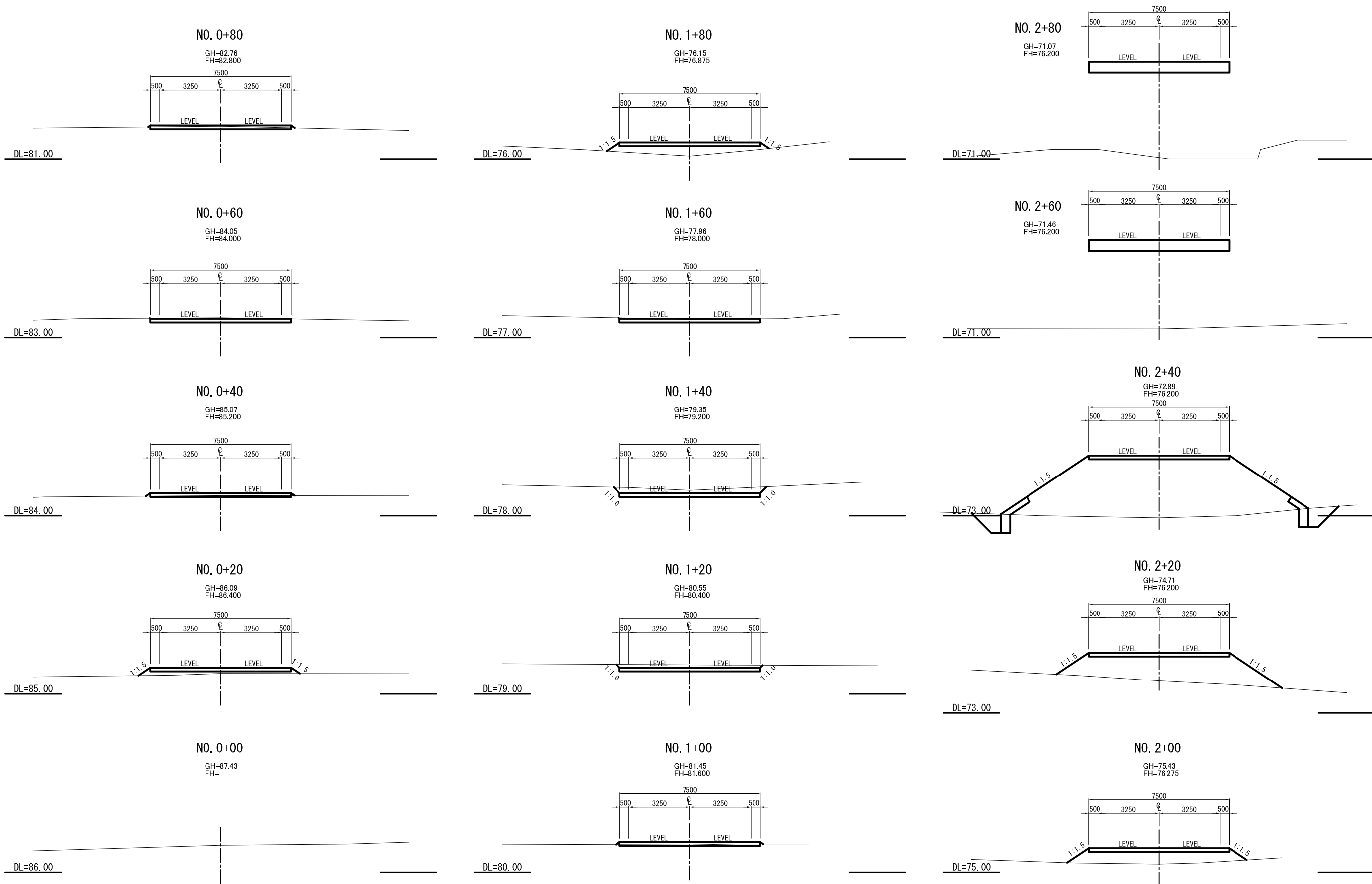


NO. 2+23 to NO. 2+50

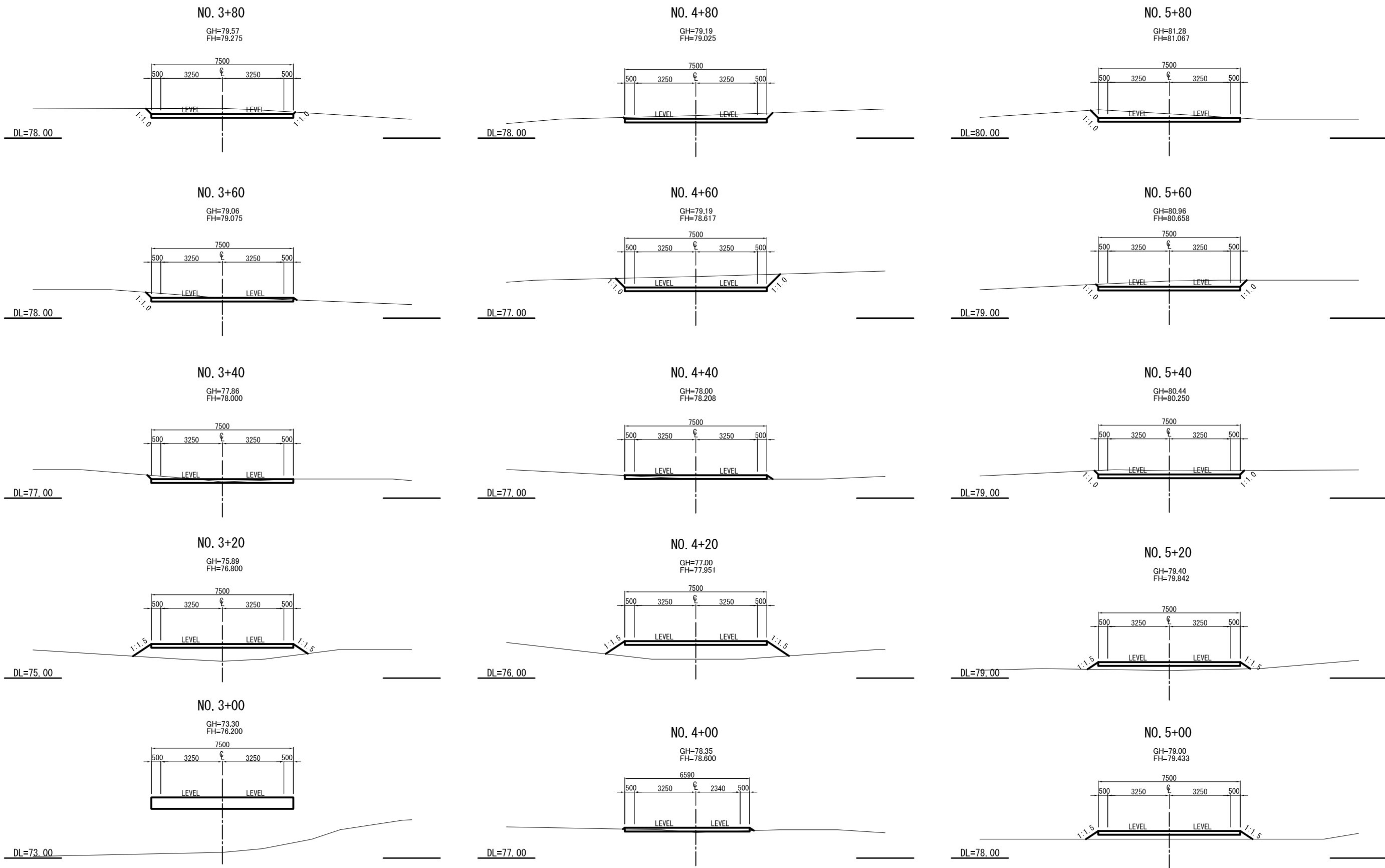
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. CEMENT MORTAR FOR GROUTED RIPRAP REVETMENT SHALL BE ONE PART PORTLAND CEMENT AND THREE PARTS SAND.

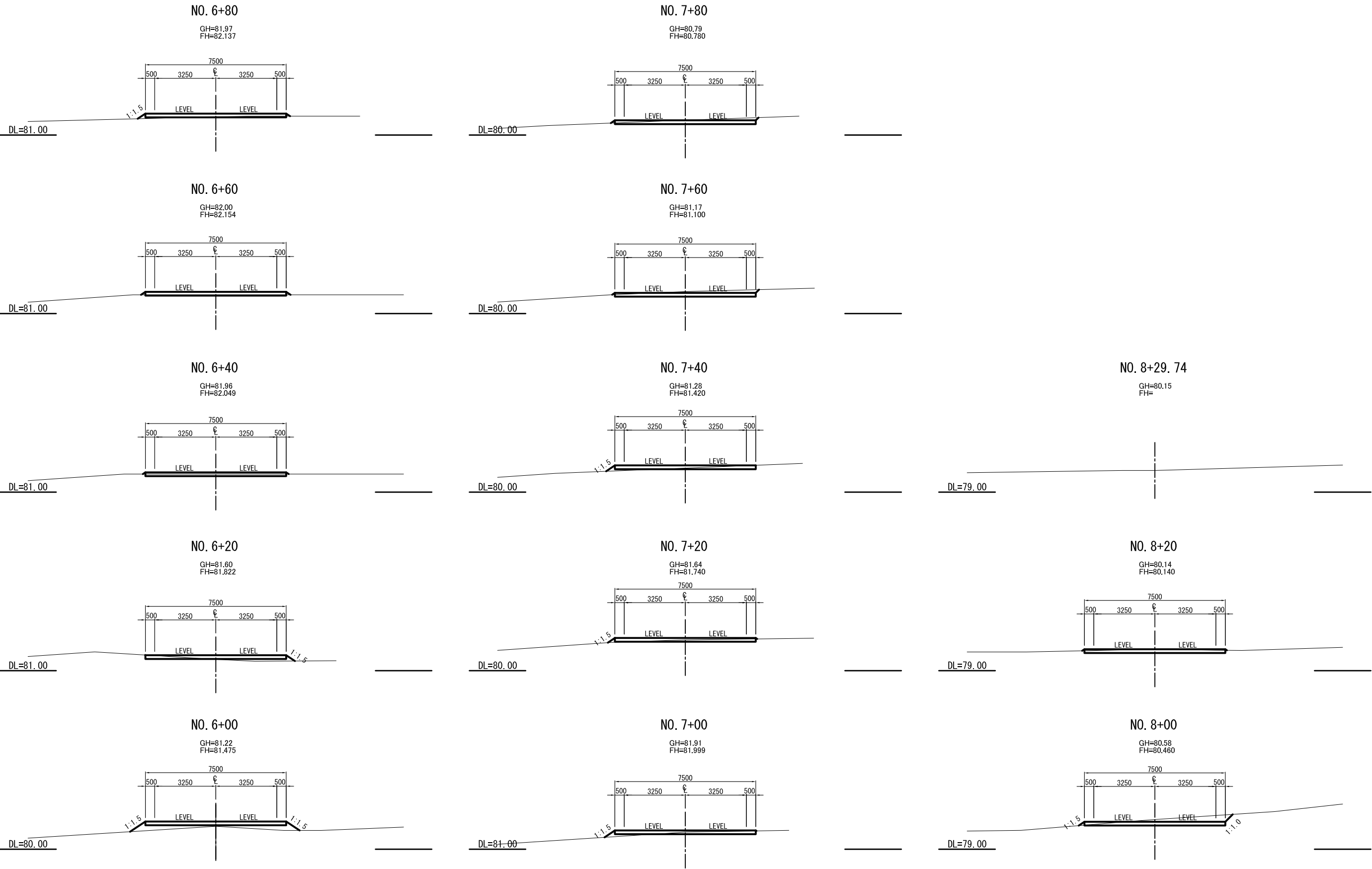
MINISTRY OF TRANSPORT AND INFRASTRUCTURE (MTI)	THE PREPATORY STUDY ON THE PROJECT FOR RECONSTRUCTION OF BRIDGES ON MANAGUA - EL RAMA ROAD IN THE REPUBLIC OF NICARAGUA	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE : TYPICAL CROSS SECTION OF DETOUR	SCALE(A1size) S=1:50	Drawing No. LB-17
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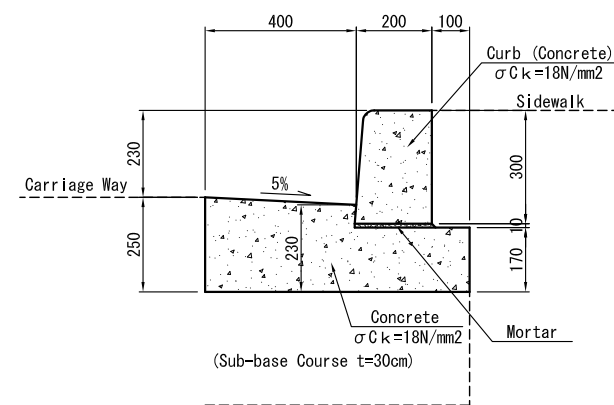
MINISTRY OF TRANSPORT AND INFRASTRUCTURE (MTI)	THE PREPARATORY STUDY ON THE PROJECT FOR RECONSTRUCTION OF BRIDGES ON MANAGUA - EL RAMA ROAD IN THE REPUBLIC OF NICARAGUA	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE : CROSS SECTION OF DETOUR (1/3)	SCALE(A1size) S=1:100	Drawing No. LB-18
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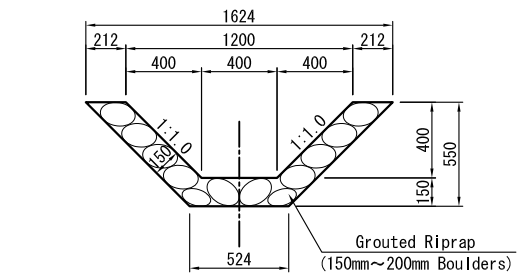
MINISTRY OF TRANSPORT AND INFRASTRUCTURE (MTI)	THE PREPARATORY STUDY ON THE PROJECT FOR RECONSTRUCTION OF BRIDGES ON MANAGUA - EL RAMA ROAD IN THE REPUBLIC OF NICARAGUA	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE : CROSS SECTION OF DETOUR (2/3)	SCALE(A1size) S=1:100	Drawing No. LB-19
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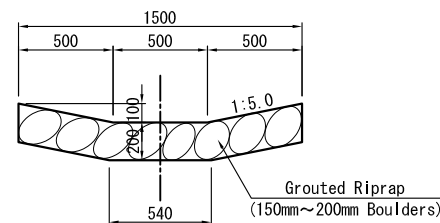
MINISTRY OF TRANSPORT AND INFRASTRUCTURE (MTI)	THE PREPATORY STUDY ON THE PROJECT FOR RECONSTRUCTION OF BRIDGES ON MANAGUA - EL RAMA ROAD IN THE REPUBLIC OF NICARAGUA	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE : CROSS SECTION OF DETOUR (3/3)	SCALE(A1size) S=1:100	Drawing No. LB-20
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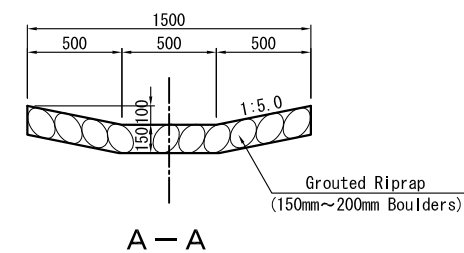
L-SHAPED GUTTER (Type-1) S=1:10



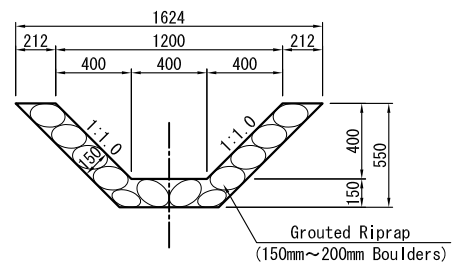
V-SHAPED DITCH (Type-1) S=1:20



V-SHAPED DITCH (Type-2) S=1:20



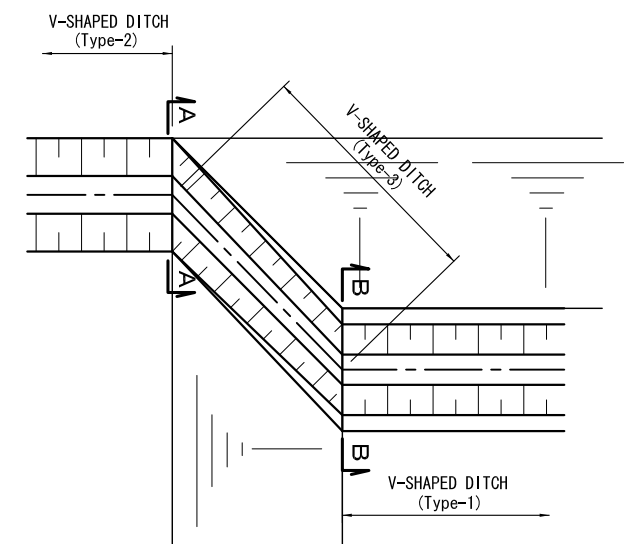
A-A



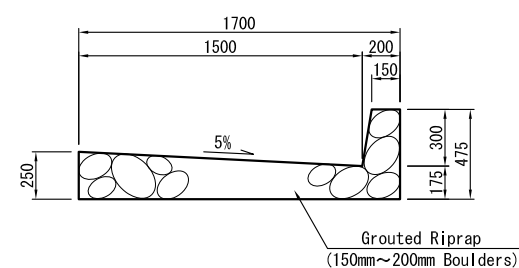
B-B

SECTION S=1:20

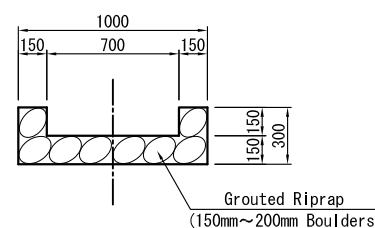
DETAIL OF V-SHAPED DITCH (Type-3)



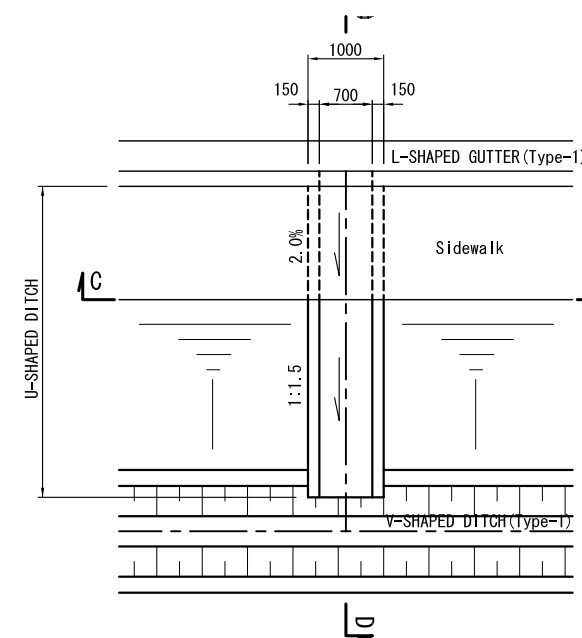
PLAN S=1:50



L-SHAPED GUTTER (Type-2) S=1:20

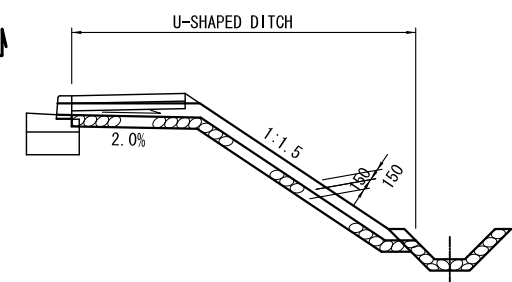


C-C SECTION S=1:20
U-SHAPED DITCH



PLAN S=1:50

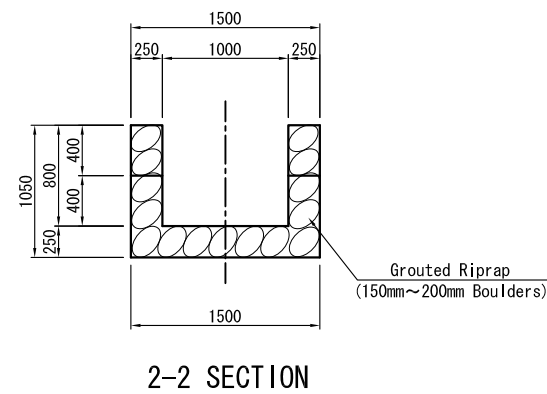
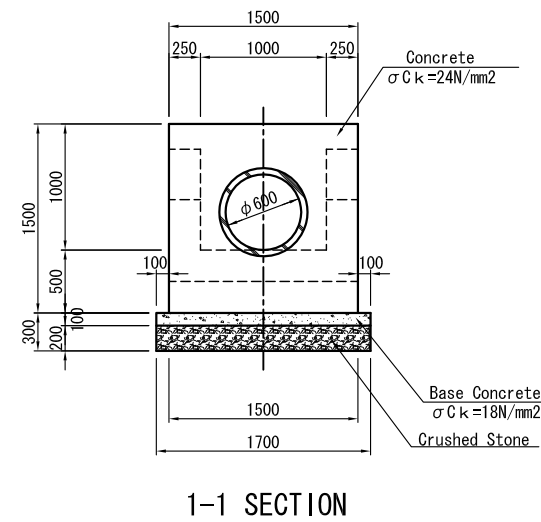
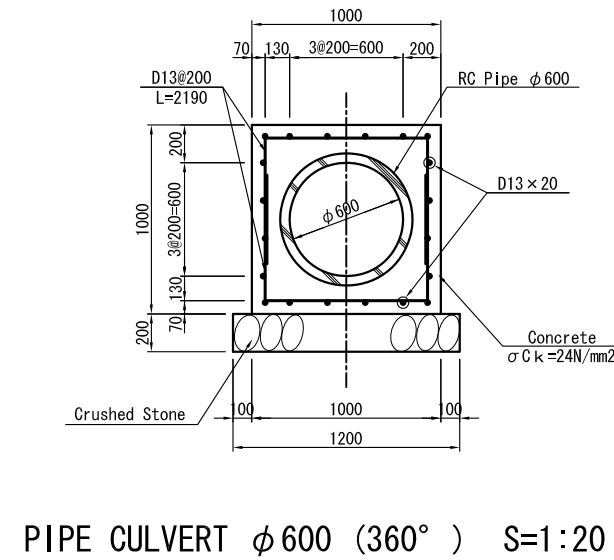
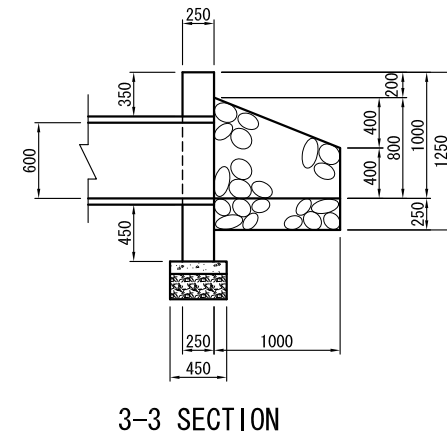
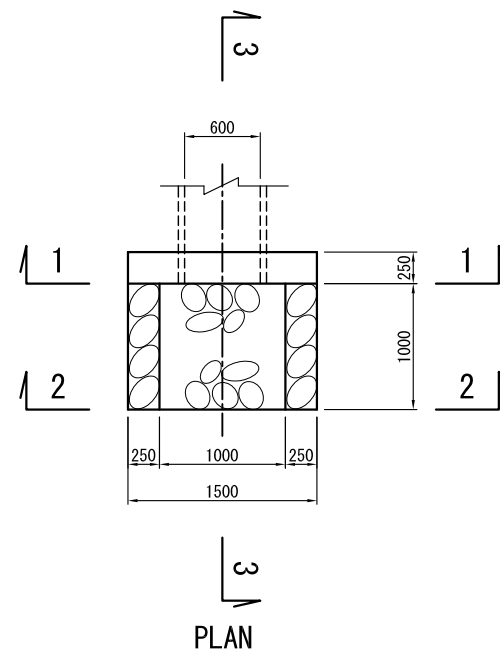
DETAIL OF U-SHAPED DITCH



D-D SECTION S=1:50

NOTE: CONCRETE MORTAR FOR GROUTED RIPRAP IS ONE PART CEMENT AND THREE PARTS SAND.

MINISTRY OF TRANSPORT AND INFRASTRUCTURE (MTI)	THE PREPATORY STUDY ON THE PROJECT FOR RECONSTRUCTION OF BRIDGES ON MANAGUA - EL RAMA ROAD IN THE REPUBLIC OF NICARAGUA	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE : STRUCTURE OF DRAINAGE FACILITIES (1/2)	SCALE(A1size) AS SHOWN	Drawing No. LB-21
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INLET/OUTLET ($\phi 600$) S=1:30

NOTE: CONCRETE MORTAR FOR GROUTED RIPRAP IS ONE PART CEMENT AND THREE PARTS SAND.

MINISTRY OF TRANSPORT AND INFRASTRUCTURE (MTI)	THE PREPARATORY STUDY ON THE PROJECT FOR RECONSTRUCTION OF BRIDGES ON MANAGUA - EL RAMA ROAD IN THE REPUBLIC OF NICARAGUA	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE : STRUCTURE OF DRAINAGE FACILITIES (2/2)	SCALE(A1size) AS SHOWN	Drawing No. LB-22
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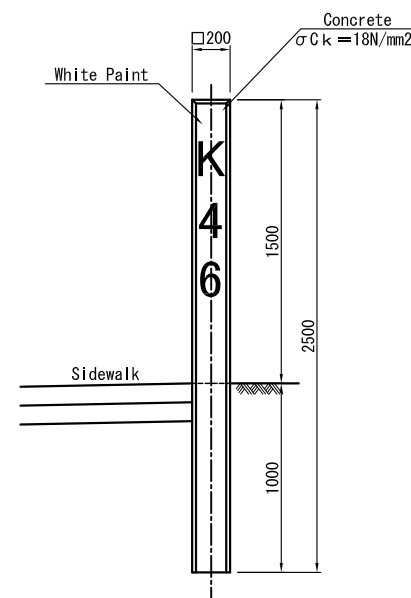


A-A SECTION

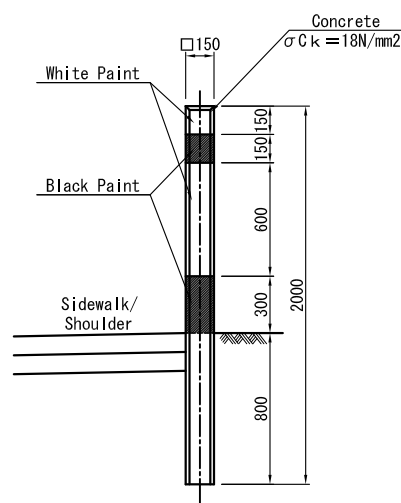


SIDEWALK SECTION S=1:20

MINISTRY OF TRANSPORT AND INFRASTRUCTURE (MTI)	THE PREPARATORY STUDY ON THE PROJECT FOR RECONSTRUCTION OF BRIDGES ON MANAGUA - EL RAMA ROAD IN THE REPUBLIC OF NICARAGUA	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE : STRUCUTRE OF SIDEWALK & BUS BAY	SCALE(A1size) AS SHOWN	Drawing No. LB-23
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KILOPOST S=1:20



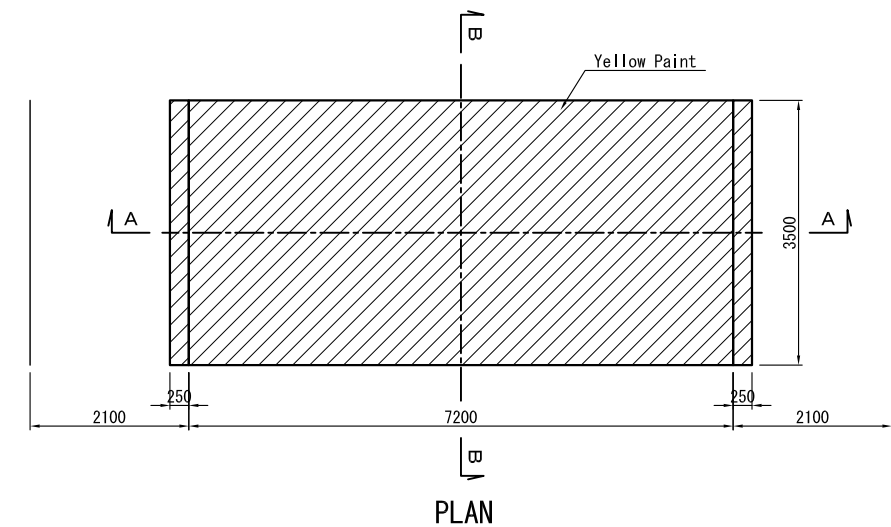
GUIDEPOST S=1:20

Scheduled List of Kilopost

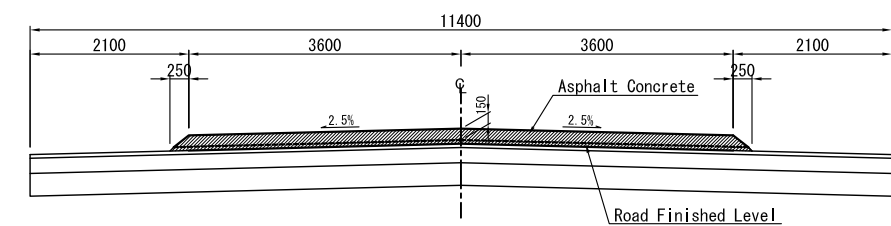
No.	STATION	SIDE		Nos.	Remarks
1	46+000	LEFT	RIGHT	2	

Scheduled List of Guidepost

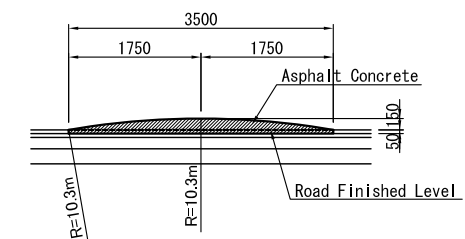
No.	STATION	SIDE		Nos.	Remarks
1	45+835	LEFT	RIGHT	2	
2	45+840	LEFT	RIGHT	2	
3	45+845	LEFT	RIGHT	2	
4	45+965	LEFT	RIGHT	2	
5	45+970	LEFT	RIGHT	2	
6	45+975	LEFT	RIGHT	2	



PLAN

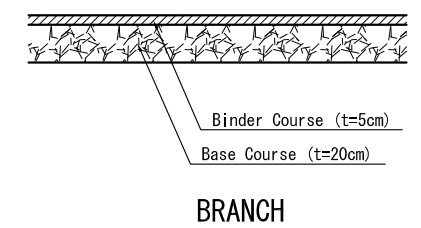
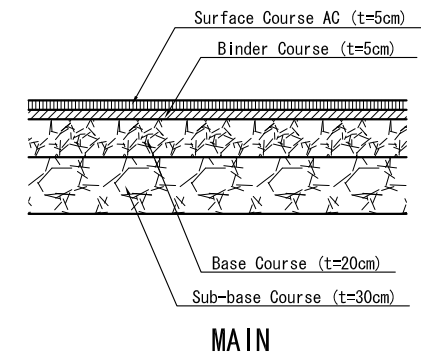
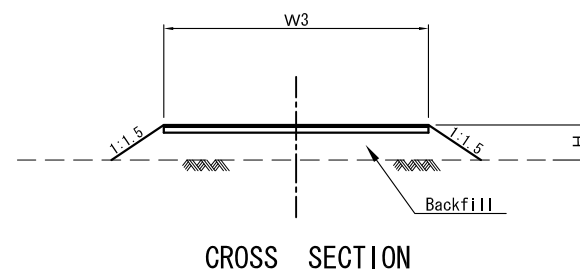
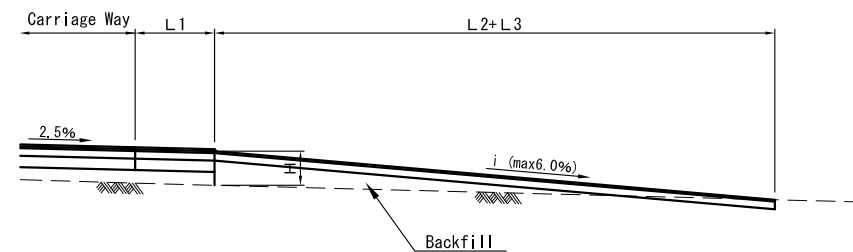
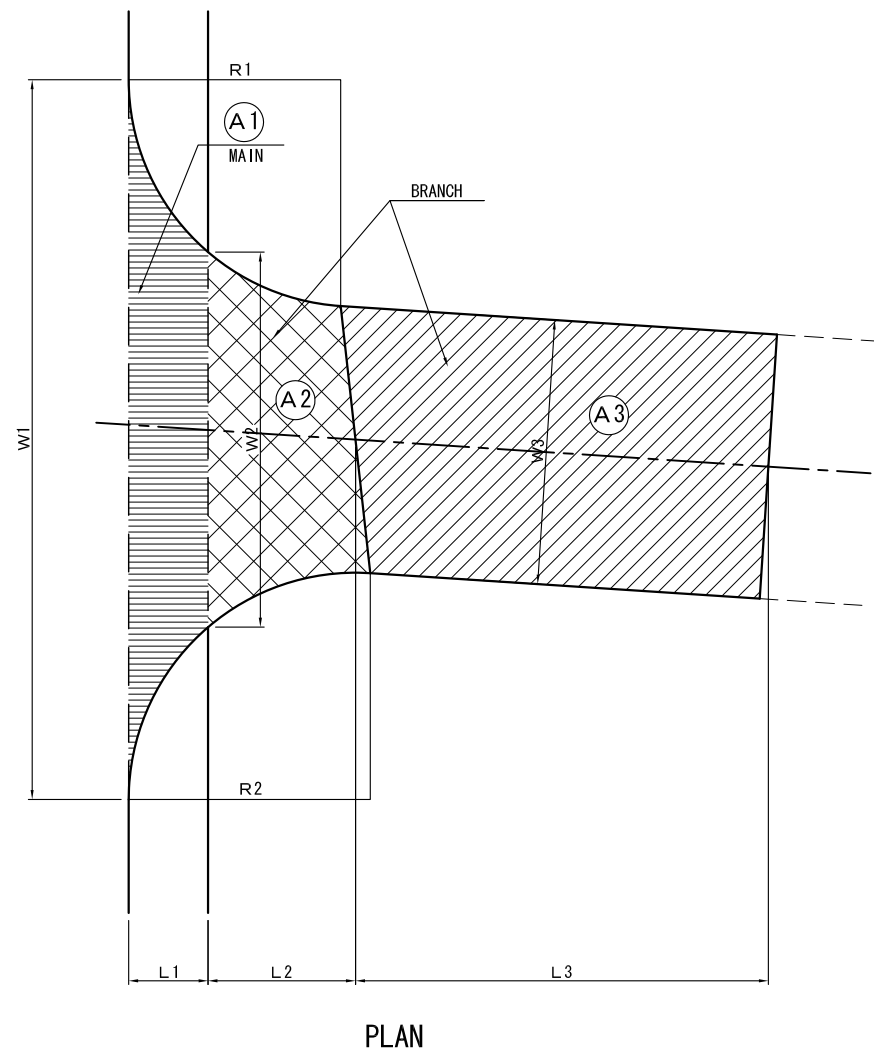


A - A SECTION



B - B SECTION

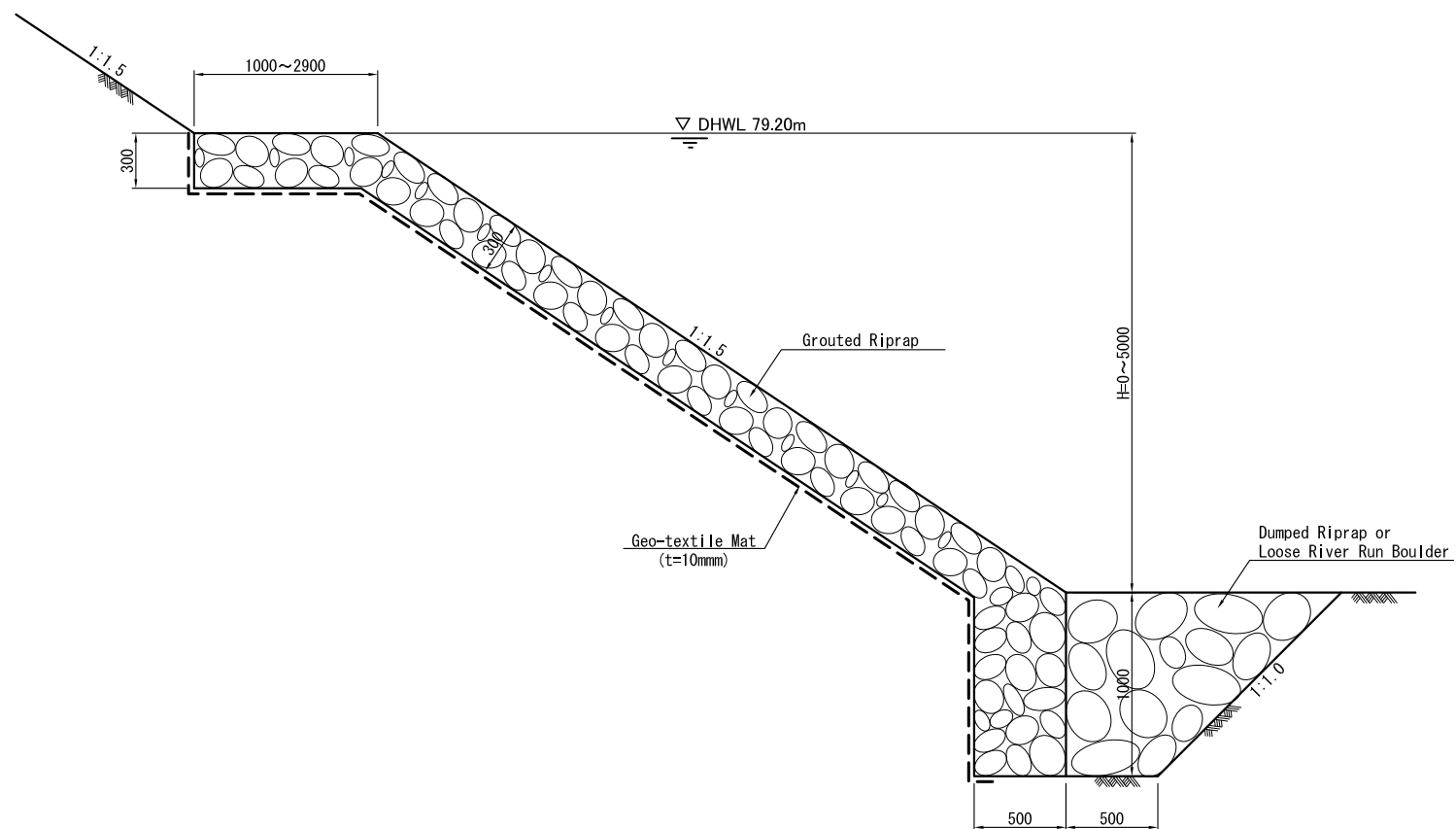
DETAILS OF SPEED REDUCTOR S=1:50



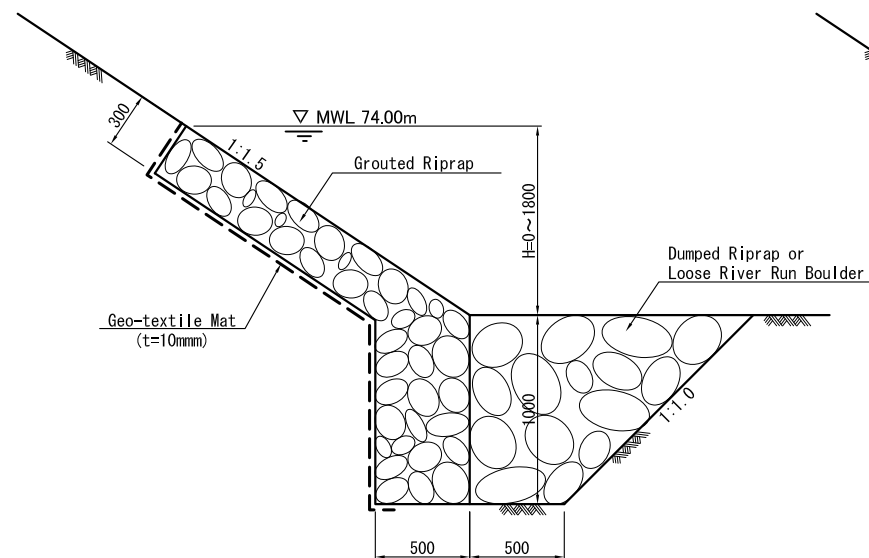
PAVEMENT S=1:20

ACCESS ROAD S=1:100

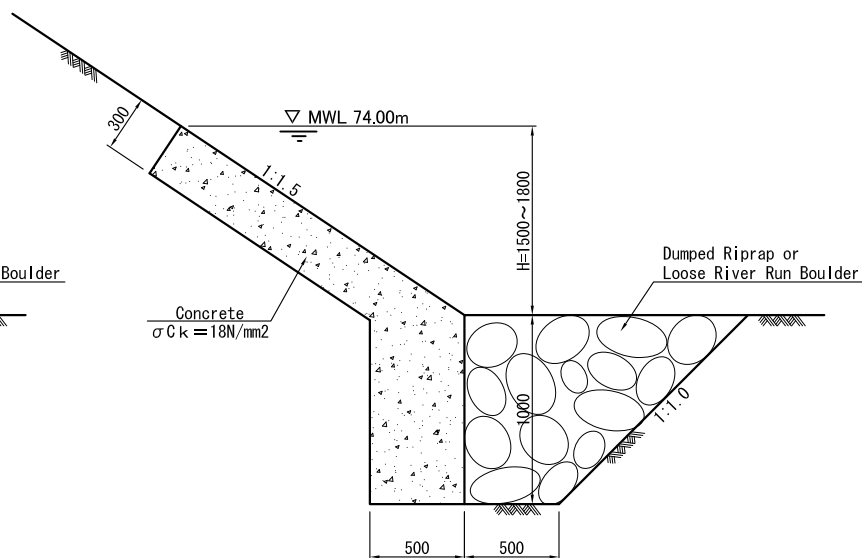
MINISTRY OF TRANSPORT AND INFRASTRUCTURE (MTI)	THE PREPARATORY STUDY ON THE PROJECT FOR RECONSTRUCTION OF BRIDGES ON MANAGUA - EL RAMA ROAD IN THE REPUBLIC OF NICARAGUA	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE : STANDARD TREATMENT OF ACCESS ROAD	SCALE(A1size) AS SHOWN	Drawing No. LB-25
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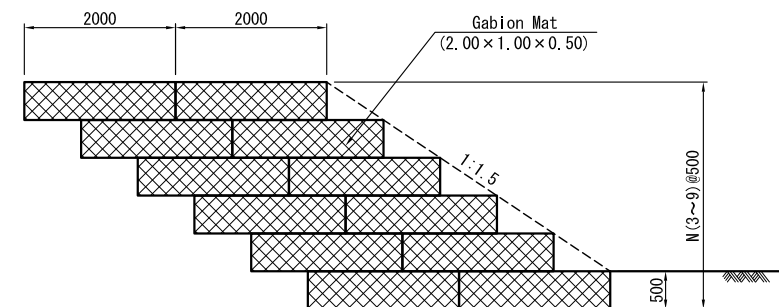
GRouted RIPRAP REVETMENT (Type-1) S=1:20
APPROACH ROAD



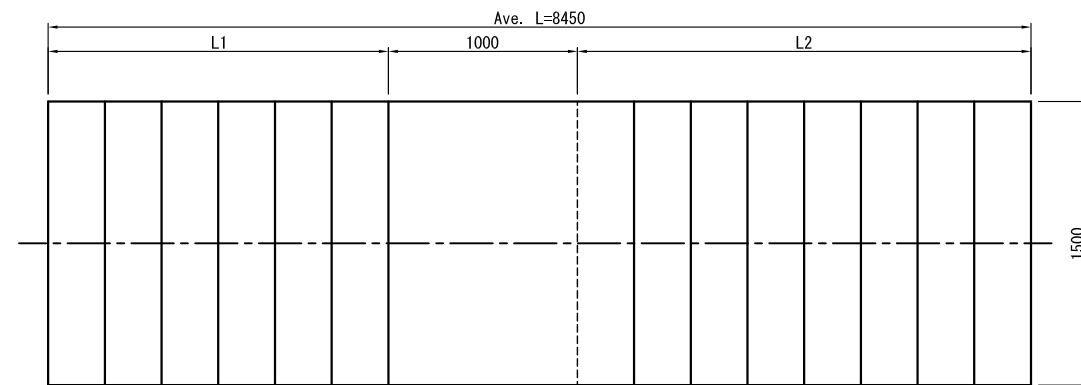
GRouted RIPRAP REVETMENT (Type-2) S=1:20



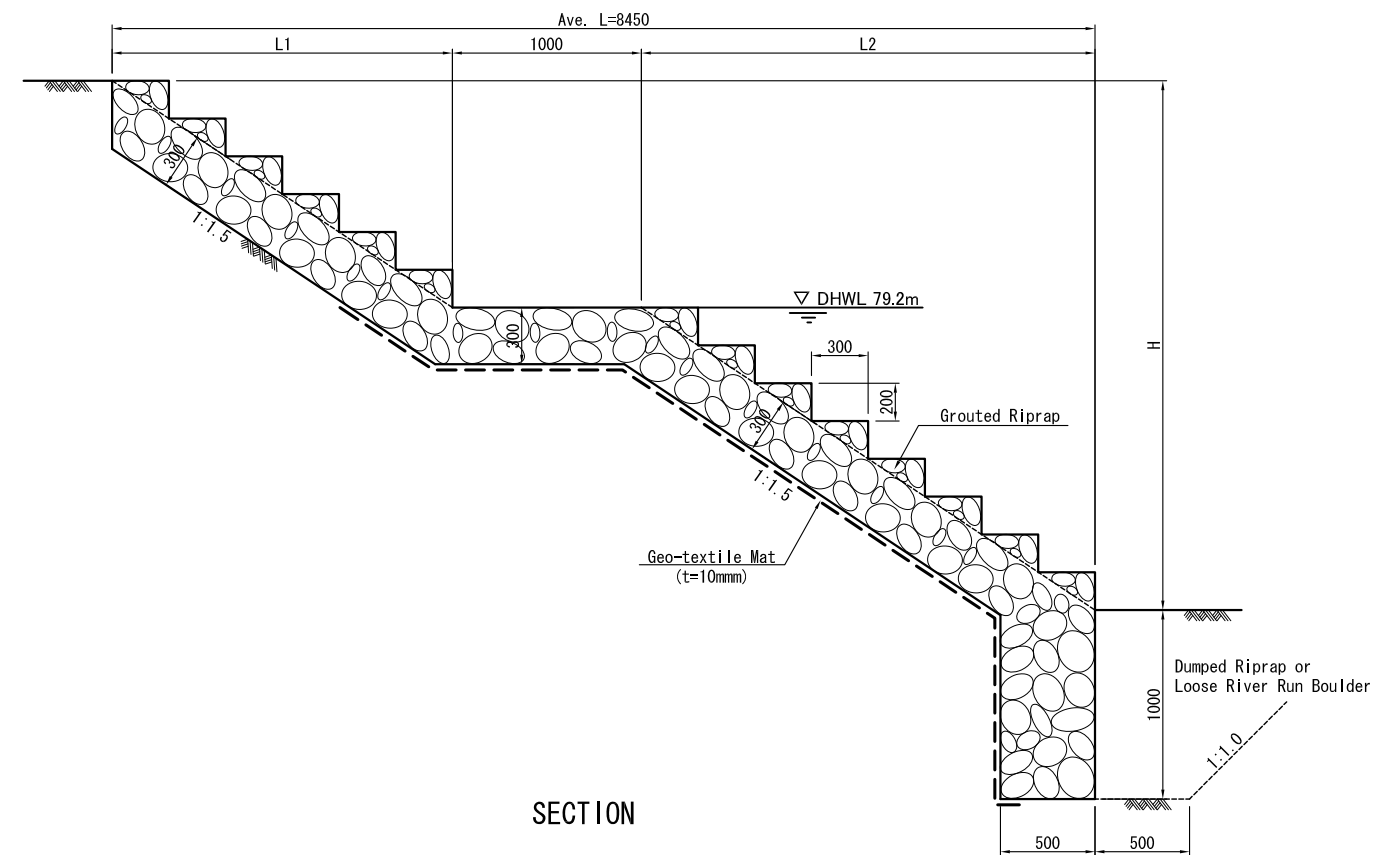
EDGE CONCRETE S=1:20
DETOUR



GABION MAT S=1:50

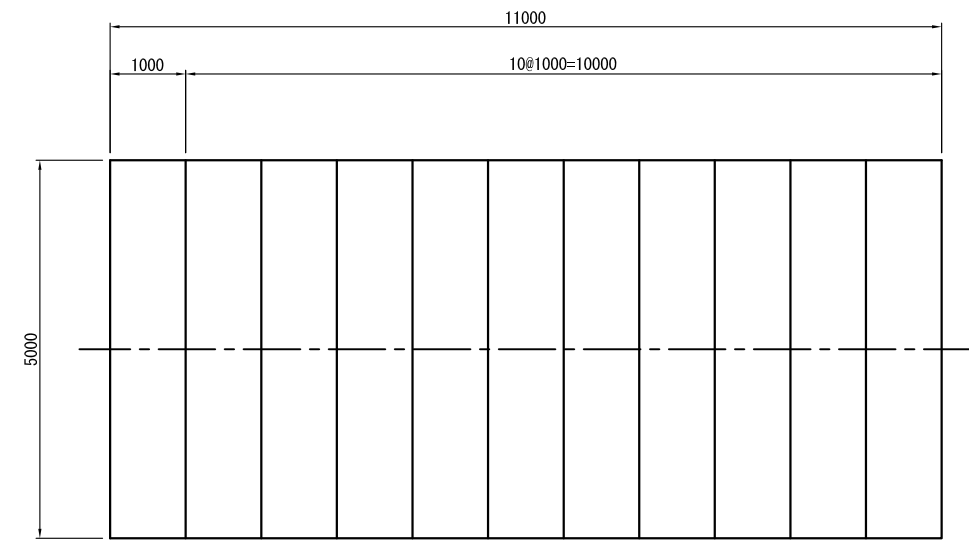


PLAN

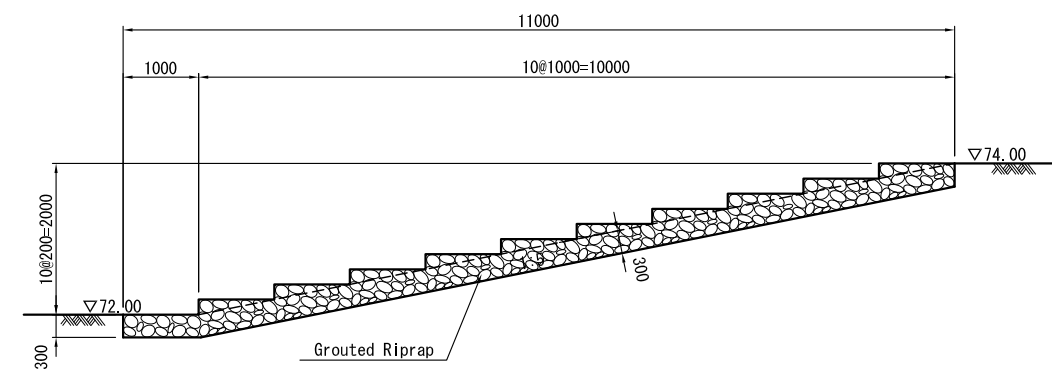


SECTION

STAIRWAY S=1:20



PLAN



SECTION

RIVER APPROACH S=1:50



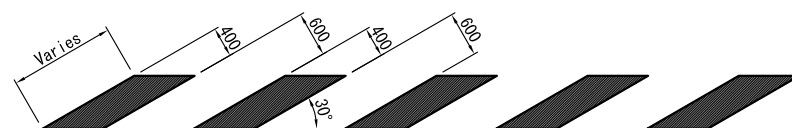
CENTER LINE (SOLID YELLOW) S=1:50



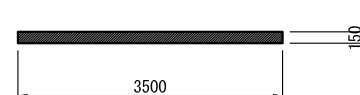
SIDE LINE ① (SOLID WHITE) S=1:50



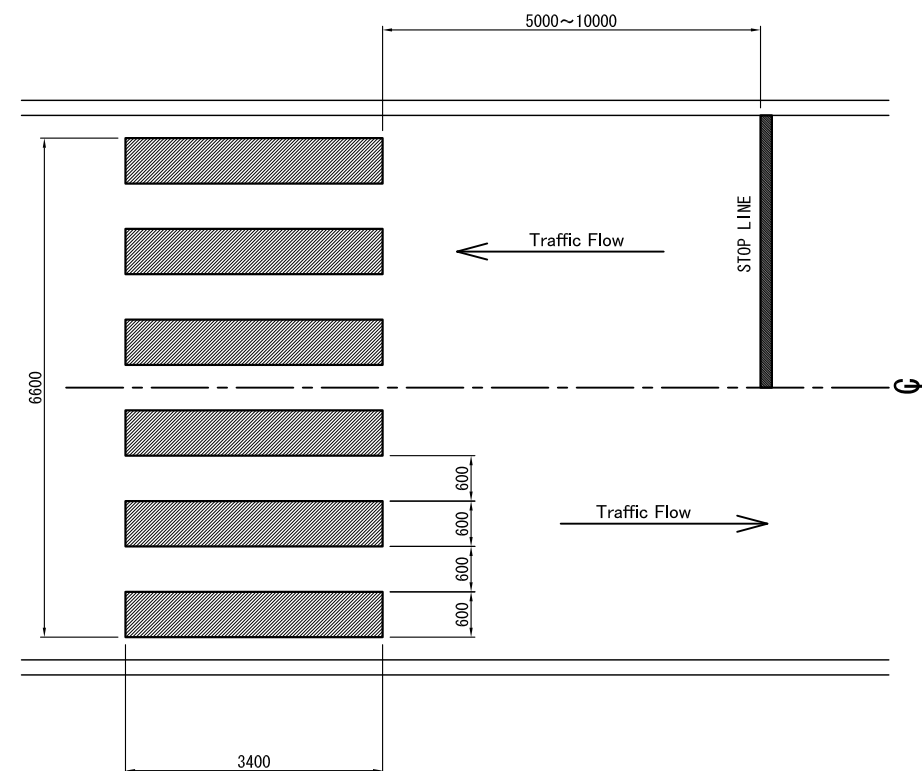
SIDE LINE ② (SHORT BROKEN WHITE) S=1:100



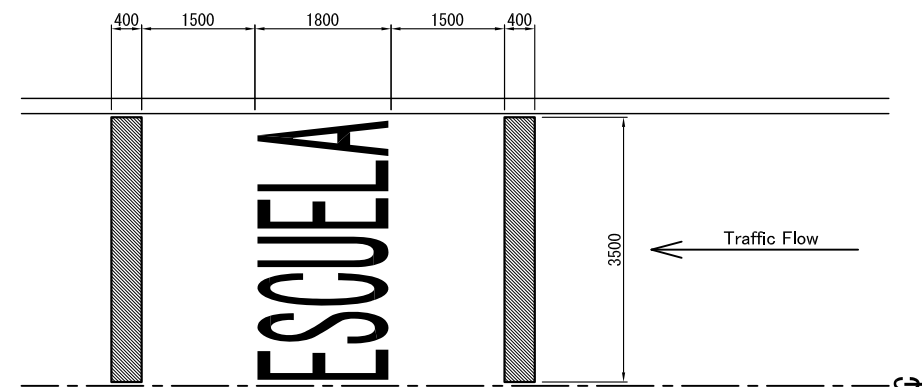
ZEBRA MARKING S=1:50



STOP LINE MARKING S=1:50

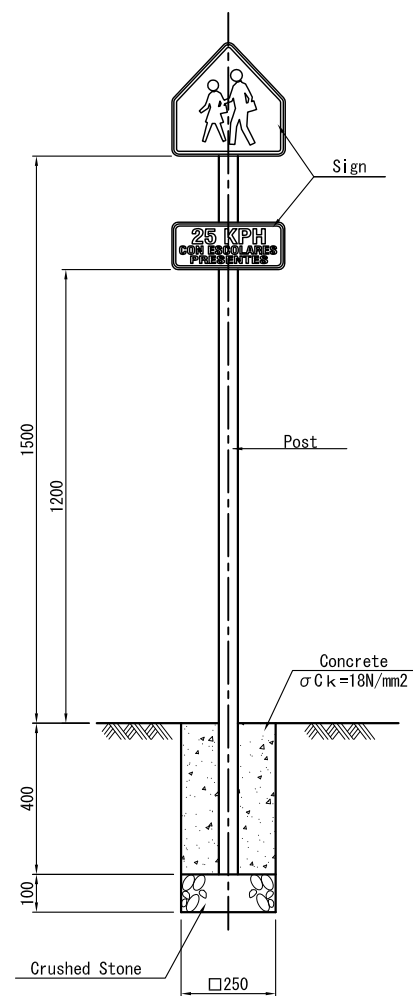


CROSS WALKS S=1:50



SCHOOL ZONE S=1:50

NOTE: THE MATERIALS, DIMENSION, SHAPES, COLOR, SIZE OF NUMERALS, LETTERS AND INSTALLATION LOCATION SHALL CONFORM WITH THE SPECIFICATION OF SIEGA.



SIGN POST S=1:10



P-4-5



P-4-6



P-9-12



E-1-1



E-1-3



E-1-4



E-1-1, E-1-2



E-1-1, E-3-3



R-2-1



R-2-4



R-2-11



E-3-1, R-2-1



E-3-1, R-2-1, E-3-2

NOTE: THE MATERIALS, DIMENSION, SHAPES, COLOR, SIZE OF NUMERALS, LETTERS AND INSTALLATION LOCATION SHALL CONFORM IN ACCORDANCE WITH THE SPECIFICATION OF SIECA.

MINISTRY OF TRANSPORT AND INFRASTRUCTURE (MTI)	THE PREPATORY STUDY ON THE PROJECT FOR RECONSTRUCTION OF BRIDGES ON MANAGUA - EL RAMA ROAD IN THE REPUBLIC OF NICARAGUA	JAPAN INTERNATIONAL COOPERATION AGENCY CTI ENGINEERING INTERNATIONAL CO., LTD.	TITLE : REGULATORY/PROHIBITORY ROAD SIGNS	SCALE(A1size) AS SHOWN	Drawing No. LB-29
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