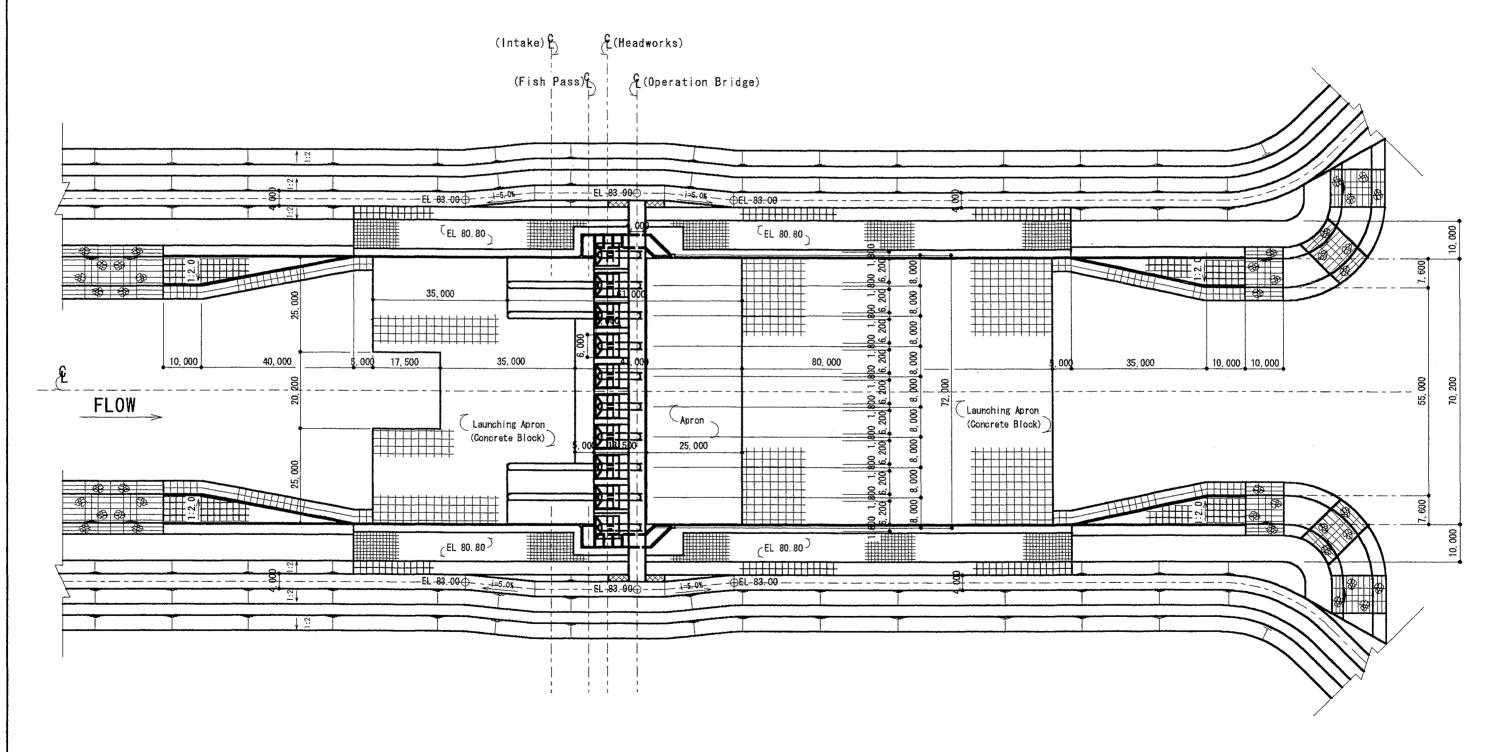
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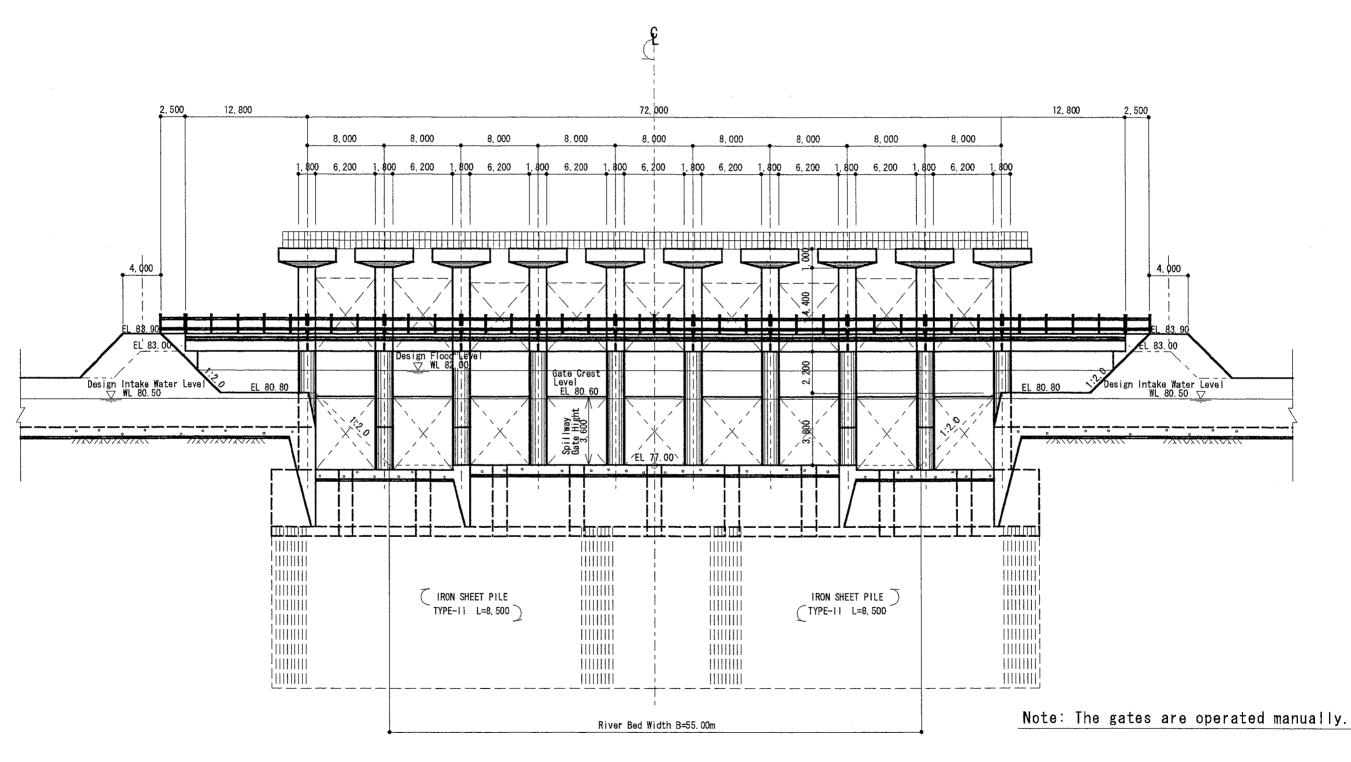
PLAN



THE FEASIBILITY STUDY ON THE SUNSARI RIVER IRRIGATION PROJECT IN THE KINGDOM OF NEPAL	TITLE OF DRAWING	TYPICAL SECTION OF HEADWORKS - P L A N -
JAPAN INTERNATIONAL COOPERATION AGENCY	DRAWING No.	HW-1

SCALE; V=1:200 H=1:400

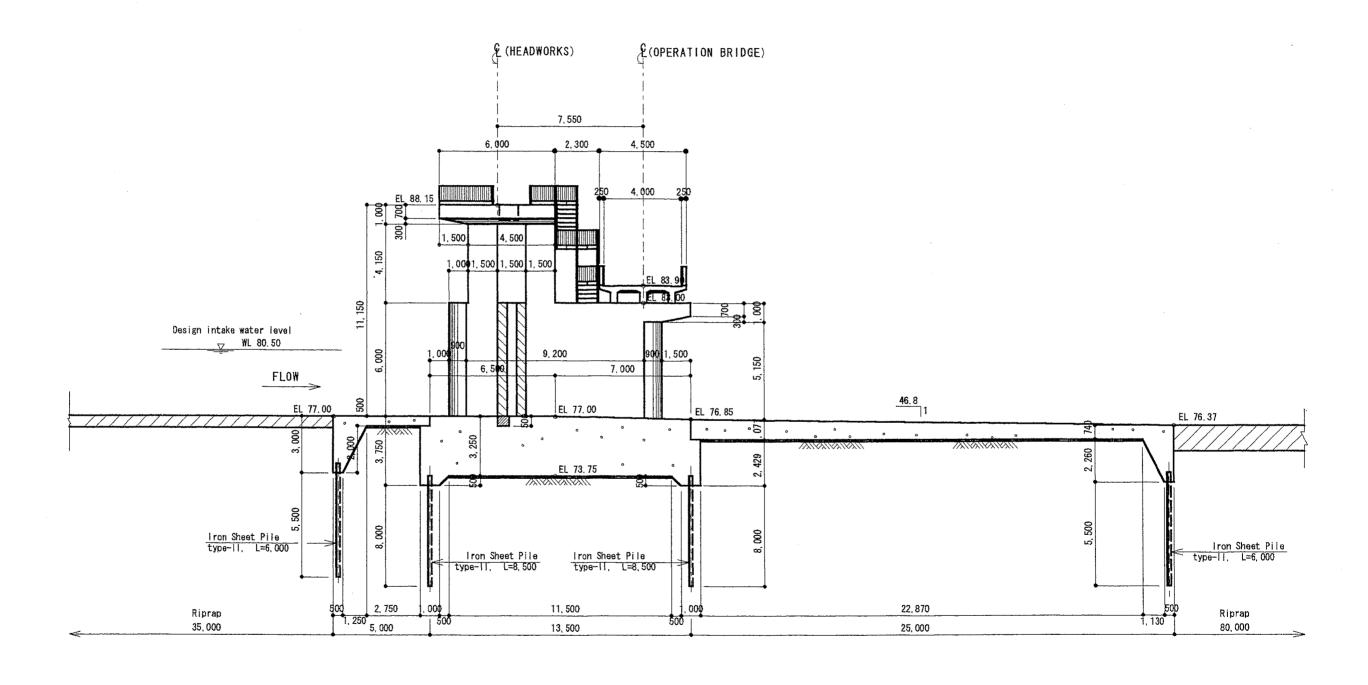
ELEVATION



THE FEASIBILITY STUDY ON THE SUNSARI RIVER IRRIGATION PROJECT IN THE KINGDOM OF NEPAL	TITLE OF DRAWING	TYPICAL SECTION OF HEADWORKS - ELEVATION -
JAPAN INTERNATIONAL COOPERATION AGENCY	DRAWING No.	HW-2

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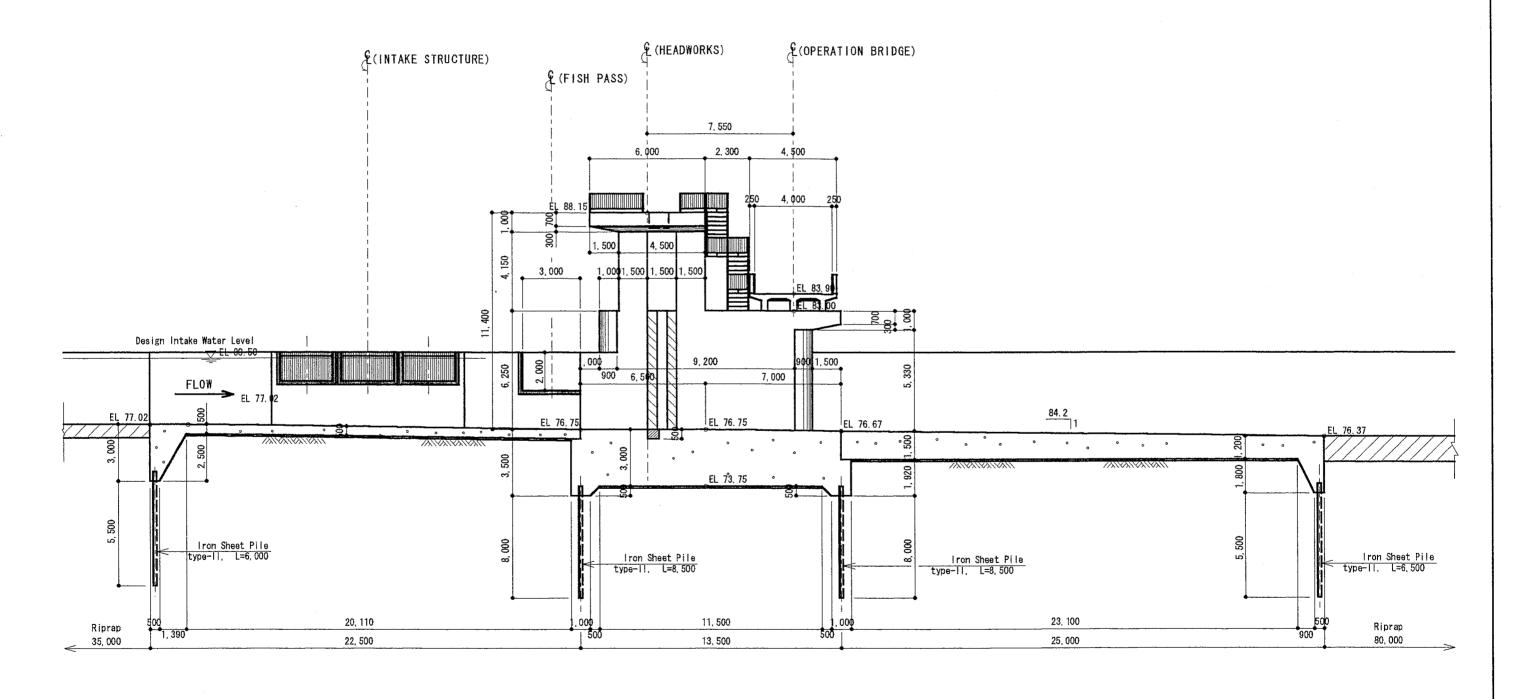
PROFILE OF SPILLWAY



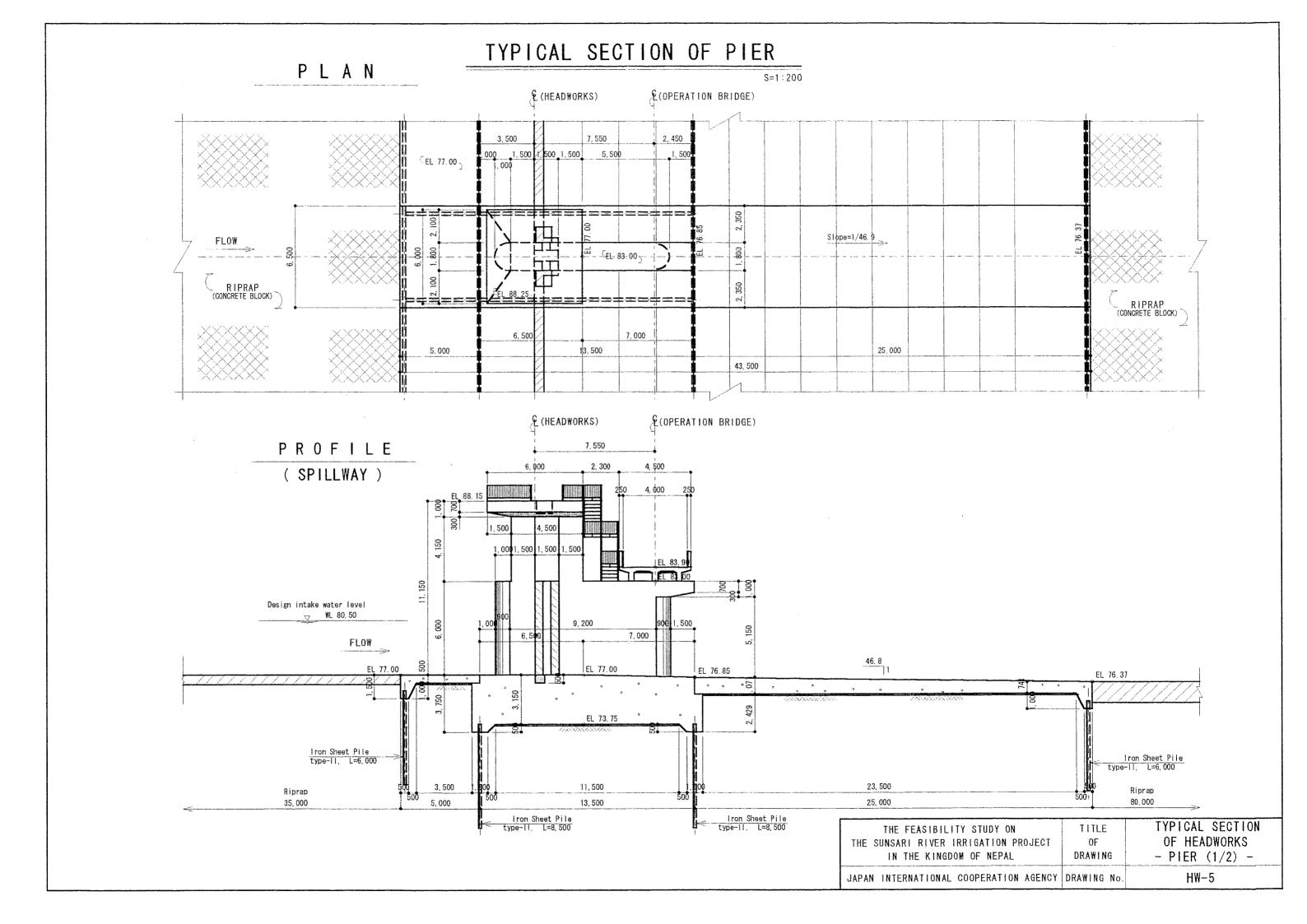
THE FEASIBILITY STUDY ON THE SUNSARI RIVER IRRIGATION PROJECT IN THE KINGDOM OF NEPAL	TITLE OF DRAWING	TYPICAL SECTION OF HEADWORKS -PROFILE OF SPILLWAY-
JAPAN INTERNATIONAL COOPERATION AGENCY	DRAWING No.	HW-3

S=1:200

SCOURING SLUICE PROFILE



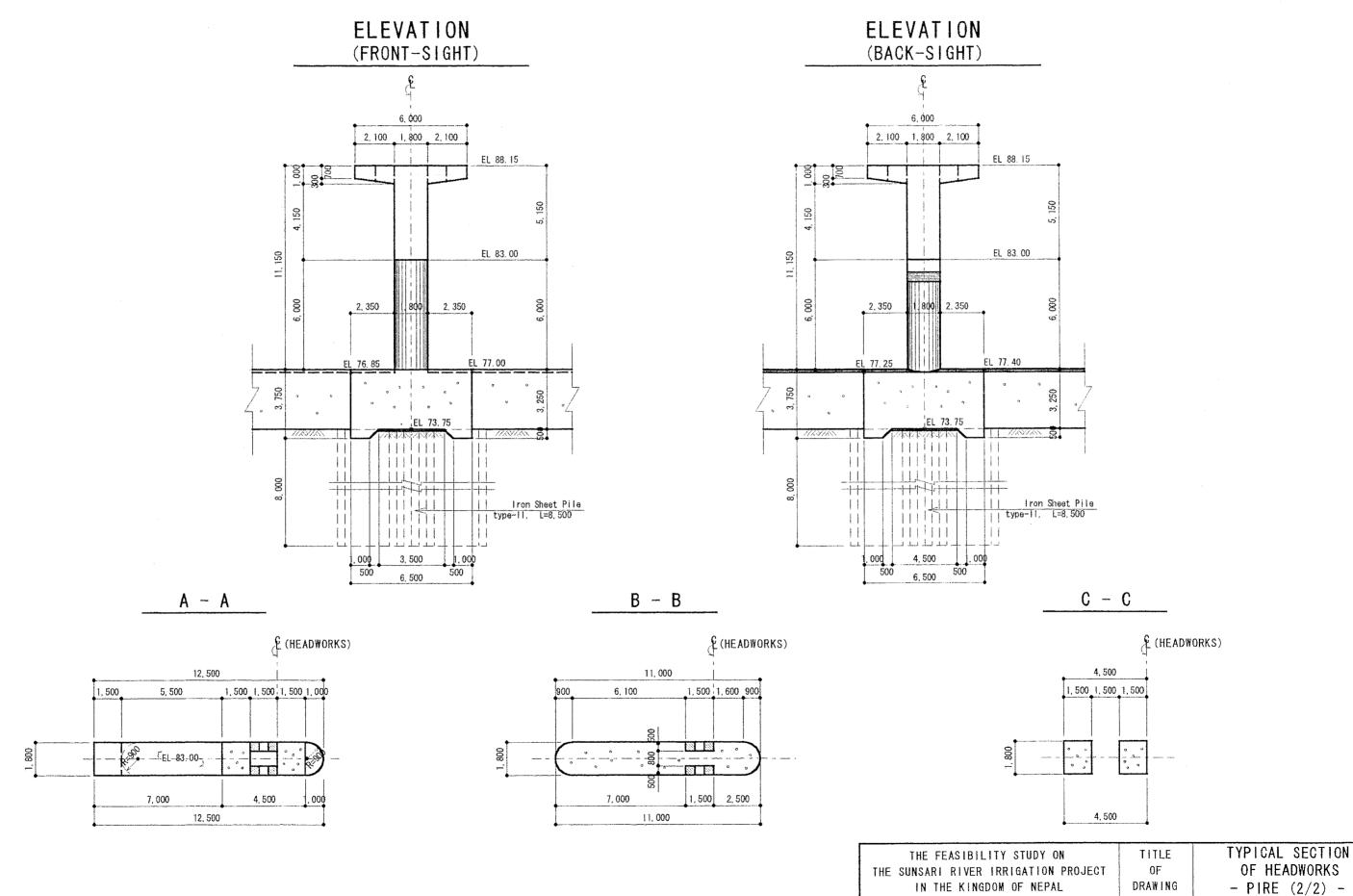
THE FEASIBILITY STUDY ON THE SUNSARI RIVER IRRIGATION PROJECT IN THE KINGDOM OF NEPAL	TITLE OF Drawing	TYPICAL SECTION OF HEADWORKS -SCOURING SLUICE PROFILE-
JAPAN INTERNATIONAL COOPERATION AGENCY	DRAWING No.	HW-4



TYPICAL SECTION OF PIER

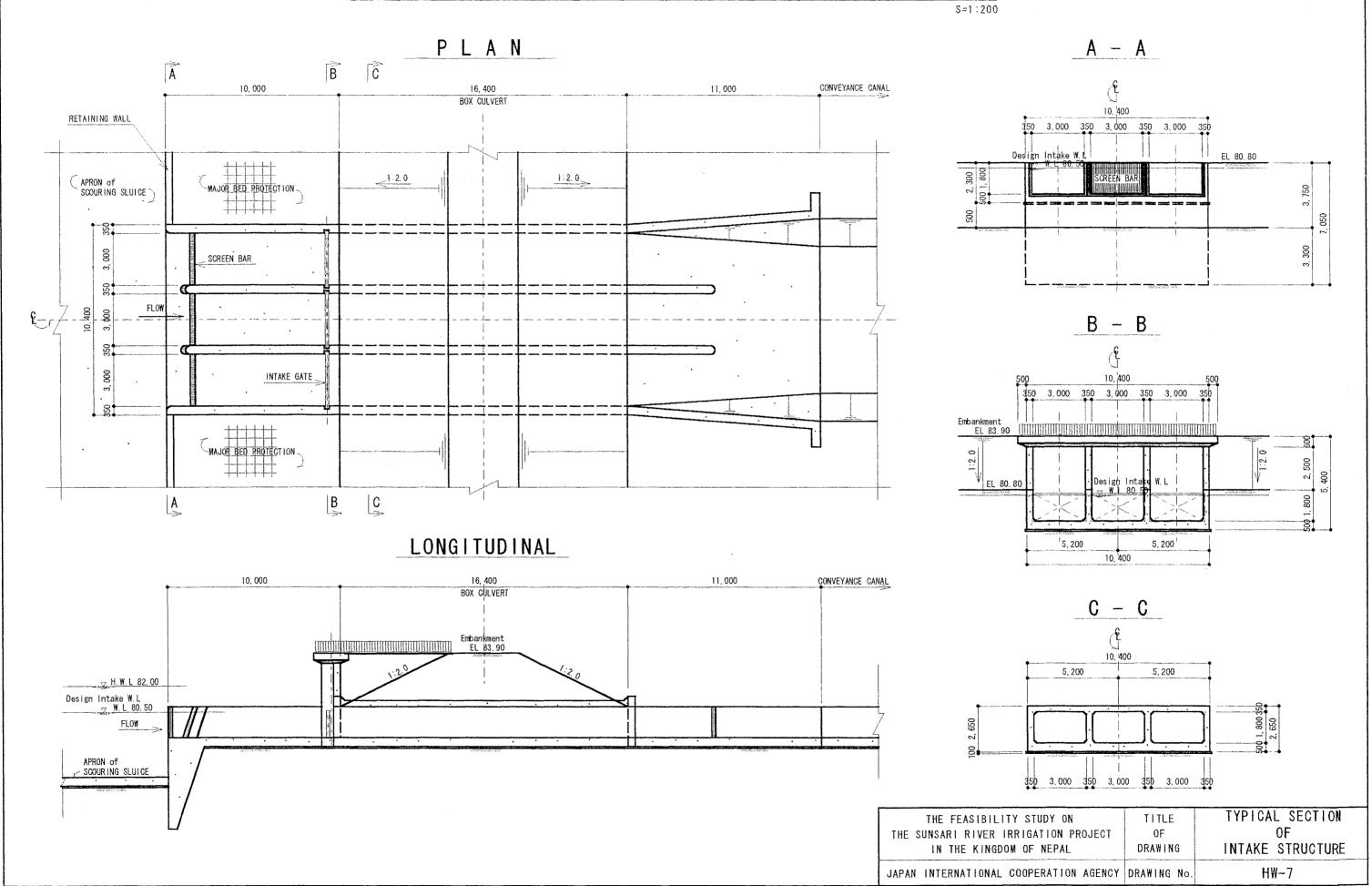
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JAPAN INTERNATIONAL COOPERATION AGENCY DRAWING No.



TYPICAL SECTION OF INTAKE STRUCTURE



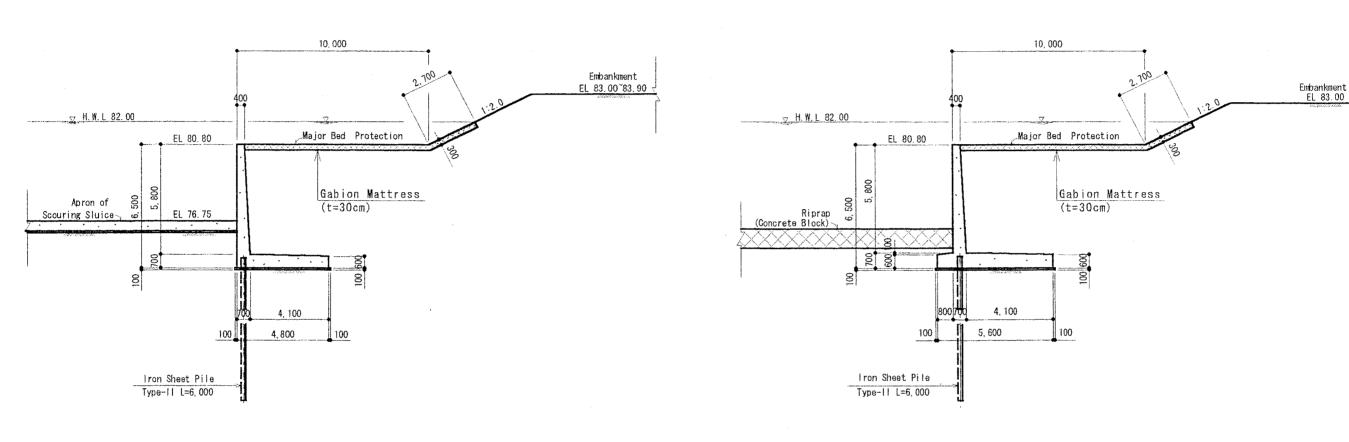


TYPICAL SECTION OF TRANSITION RETAINING WALL

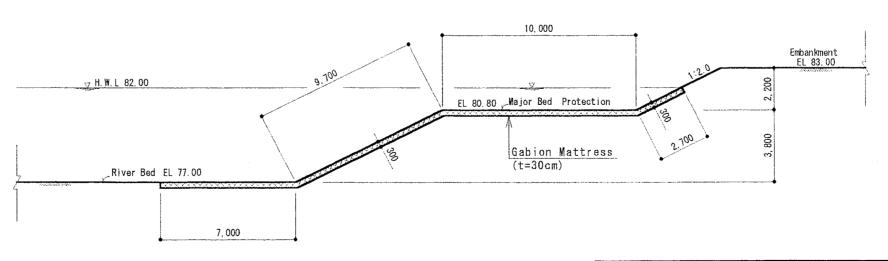
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TYPE - B



TYPE - C

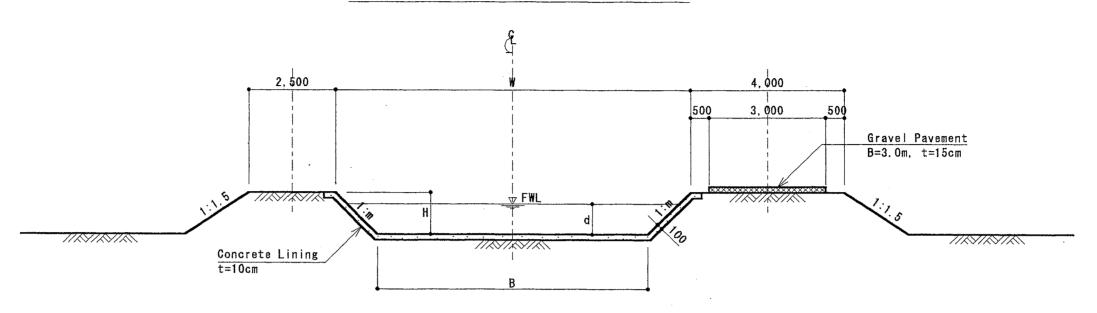


THE FEASIBILITY STUDY ON	TITLE	TYPICAL SECTION
THE SUNSARI RIVER IRRIGATION PROJECT	0F	OF TRANSITION
IN THE KINGDOM OF NEPAL	DRAWING	RETAINING WALL
JAPAN INTERNATIONAL COOPERATION AGENCY	DRAWING No.	HW-8

PROPOSED DIMENSIONS OF HEAD RACE AND MAIN CANAL

S=1:100

CONCRETE LINING CANAL



SUKSENA MAIN CANAL DIMENSIONS

TYPE	Q(m3/s)	B (m)	H (m)	d (m)	₩ (m)	V (m/s)	1/1	1:m	п	Distance and Length
SSC1	9.30	6.80	1.60	1.195	10.00	0. 973	1/4310	1.00	0.015	H/W - No.2 Division L=1270m
SSC2	8. 70	6.30	1.60	1.200	9.50	0.966	1/4310	1.00	0.015	No. 2 Div No. 3 Div. L=1370m
SSC3	8. 10	5.90	1.60	1.194	9.10	0.956	1/4310	1.00	0.015	No. 3DivConflu. (Ch2K)L= 678m
SSC4	8. 10	5. 20	1.60	1.196	8.40	1.059	1/3400	1.00	0.015	Ch 2.00K - Ch 2.50K L= 500m
SSC5	7. 10	4.50	1.60	1.199	7.70	1. 039	1/3400	1.00	0.015	Ch 2.50K - Ch 2.90K L= 400m
SSC6	6. 50	4.10	1.60	1. 198	7.30	1. 024	1/3400	1.00	0.015	Ch 2.90K - Ch 3.85K L= 950m
SSC7	5. 90	3. 70	1.60	1.196	6.90	1.007	1/3400	1.00	0.015	Ch 3.85K - Ch 5.95K L=2100m
SSC8	4. 20	2.50	1.50	1.200	5.50	0. 946	1/3400	1.00	0.015	Ch 5. 95K - Ch 7. 35K L=1285m
SIPHON	4. 20	1.50	1.50							Ch 7. 185K- Ch 7. 30K L= 115m
SSC9	3.80	2.10	1.50	1. 187	5.10	0. 973	1/3000	1.00	0.015	Ch 7. 35K - Ch 7. 45K L= 100m
SSC10	3.40	2.00	1.50	1.142	5.00	0. 947	1/3000	1.00	0.015	Ch 7.45K - Ch10.75K L=3300m
SSC11	2.60	2.00	1.30	1.030	4.60	0. 833	1/3500	1.00	0.015	Ch10.75K - Ch13.85K L=3100m
SSC12	1.50	2.00	1.30	0. 789	4.60	0. 682	1/4000	1.00	0.015	Ch13.85K - Ch15.30K L=1450m
SSC13	0.80	2.00	1.30	0. 552	4.60	0. 568	1/4000	1.00	0.015	Ch15. 30K - Ch17. 20K L=1900m
										Total Length L=18518m

REMARKS

- TYPE-SSC1, SSC2, SSC3 ===== HEAD RACE from HEADWORKS to SUKSENA MAIN CANAL.
- TYPE-SSC4 to SSC13 ===== SUKSENA MAIN CANAL.

SHANKARPUR MAIN CANAL DIMENSIONS

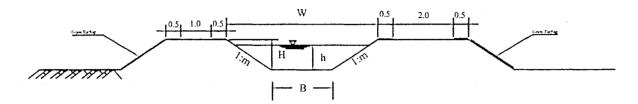
TYPE	Q(m3/s)	B (m)	H(m)	d(m)	₩ (m)	V (m/s)	1/1	1:m	n	Distance and Length	
SPC1	7. 70	6.00	1.60	1.200	9. 20	0.892	1/5000	1.00	0.015	H/W - Conflu. (Ch2. 4K) L=2	2012m
SPC2	7.70	4.50	1.60	1.188	7.70	1.139	1/2800	1.00	0.015	Ch 2. 40K - Ch 2. 55K L=	150m
SPC3	6.90	4.00	1.60	1.188	7. 20	1.119	1/2800	1.00	0.015	Ch 2. 55K - Ch 4. 50K L=	1950m
SPC4	6. 20	3.50	1.60	1.198	6.70	1.101	1/2800	1.00	0.015	Ch 4.50K - Ch 7.70K L=	3200m
SPC5	5. 20	2.90	1.60	1.192	6.10	1.066	1/2800	1.00	0.015	Ch 7. 70K - Ch 9. 20K L=	1436m
AQEDUCT	5. 20	4.20	1.60	1.183	4.20	1.046	1/2800	0.00	0.015	Ch 8, 986K- Ch 9, 05K L=	64m
SPC6	4. 60	2.40	1.50	1,181	5.40	1.087	1/2500	1.00	0.015	Ch 9. 20K - Ch10. 50K L=	1300m
SPC7	4. 20	2.10	1.40	1.193	5.10	1.069	1/2500	1.00	0.015	Ch10. 50K - Ch12. 00K L=	1500m
SPC8	3. 30	2.00	1.40	1.070	4.80	1.000	1/2500	1.00	0.015	Ch12. 00K - Ch12. 90K L=	9 0 0m
SPC9	2.70	2.00	1.30	0.959	4.60	0.951	1/2500	1.00	0.015	Ch12. 90K - Ch13. 70K L=	m008
SPC10	1.80	2.00	1.30	0.766	4.60	0.849	1/2500	1.00	0.015	Ch13. 70K - Ch15. 35K L=	1650m
SPC11	1.00	2.00	1.30	0.548	4. 60	0.716	1/2500	1.00	0.015	Ch15. 35K - Ch17. 70K L=2	2350m
	,									Total Length L=1	7312m

REMARKS

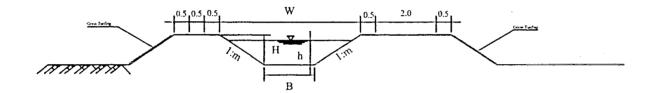
- TYPE-SPC1 ===== HEAD RACE from HEADWORKS to SHANKARPUR MAIN CANAL.
- TYPE-SPC1 to SPC11 ===== SHANKARPUR MAIN CANAL.

THE FEASIBILITY STUDY ON THE SUNSARI RIVER IRRIGATION PROJECT IN THE KINGDOM OF NEPAL	TITLE OF Drawing	PROPOSED DIMENSIONS OF HEAD RACE AND MAIN CANAL
JAPAN INTERNATIONAL COOPERATION AGENCY	DRAWING No.	CN-1

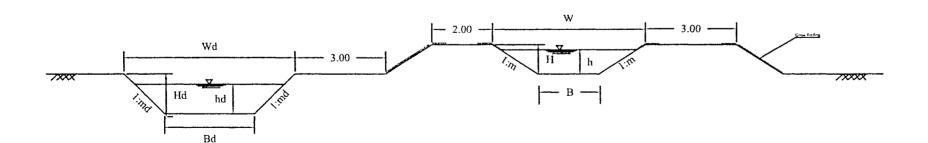
Typical Cross Section of Secondary Earth Canal



Typical Cross Section of Tertiary Canal



Typical Cross Section of Secondary Canal with Drain



Secondary Canal Dimensions

Type	Q(m3/s)	h(m)	H(m)	B(m)	W(m)	V(m/s)	l:m	п	I
A	0.0-0.2	0.55	0.75	0.55	2.80	0.33	1.50	0.03	1/2000
В	0.2-0.4	0.70	0.90	0.70	3.40	0.39	1.50	0.03	1/2000
С	0.4-0.5	0.75	0.95	0.75	3.60	0.41	1.50	0.03	1/2000
D	0.5-0.7	0.75	0.95	1.125	4.00	0.43	1.50	0.03	1/2000
Е	0.7-0.8	0.80	1.10	1.20	4.50	0.45	1.50	0.03	1/2000
F	0.8-1.0	0.80	1.10	1.60	4.90	0.47	1.50	0.03	1/2000
G	1.0-1.25	0.85	1.15	1.70	5.20	0.49	1.50	0.03	1/2000
Н	1.25-1.50	0.85	1.15	2.55	6.00	0.52	1.50	0.03	1/2000
I	1.50-1.75	0.90	1.20	2.70	6.30	0.54	1.50	0.03	1/2000
J	1.75-2.00	0.95	1.25	2.85	6.60	0.56	1.50	0.03	1/2000
K	2.00-2.50	1.00	1.40	3.00	7.20	0.58	1.50	0.03	1/2000
L	2.50-3.00	1.10	1.50	3.30	7.80	0.61	1.50	0.03	1/2000

Tertiary Canal Dimensions

Type	Q(m3/s)	h(m)	H(m)	B(m)	W(m)	V(m/s)	1:m	n	I
T1	0.0-0.1	0.45	0.65	0.45	1.75	0.28	1.0	0.03	1/2000
T2	0.1-0.2	0.50	0.70	0.75	2.15	0.33	1.0	0.03	1/2000
T3	0.2-0.3	0.55	0.75	1.10	2.60	0.36	1.0	0.03	1/2000
T4	0.3-0.4	0.60	0.80	1.20	2.80	0.39	1.0	0.03	1/2000
T5 -	0.4-0.5	0.60	0.80	1.50	3.10	0.40	1.0	0.03	1/2000

Drainage Canal Dimensions

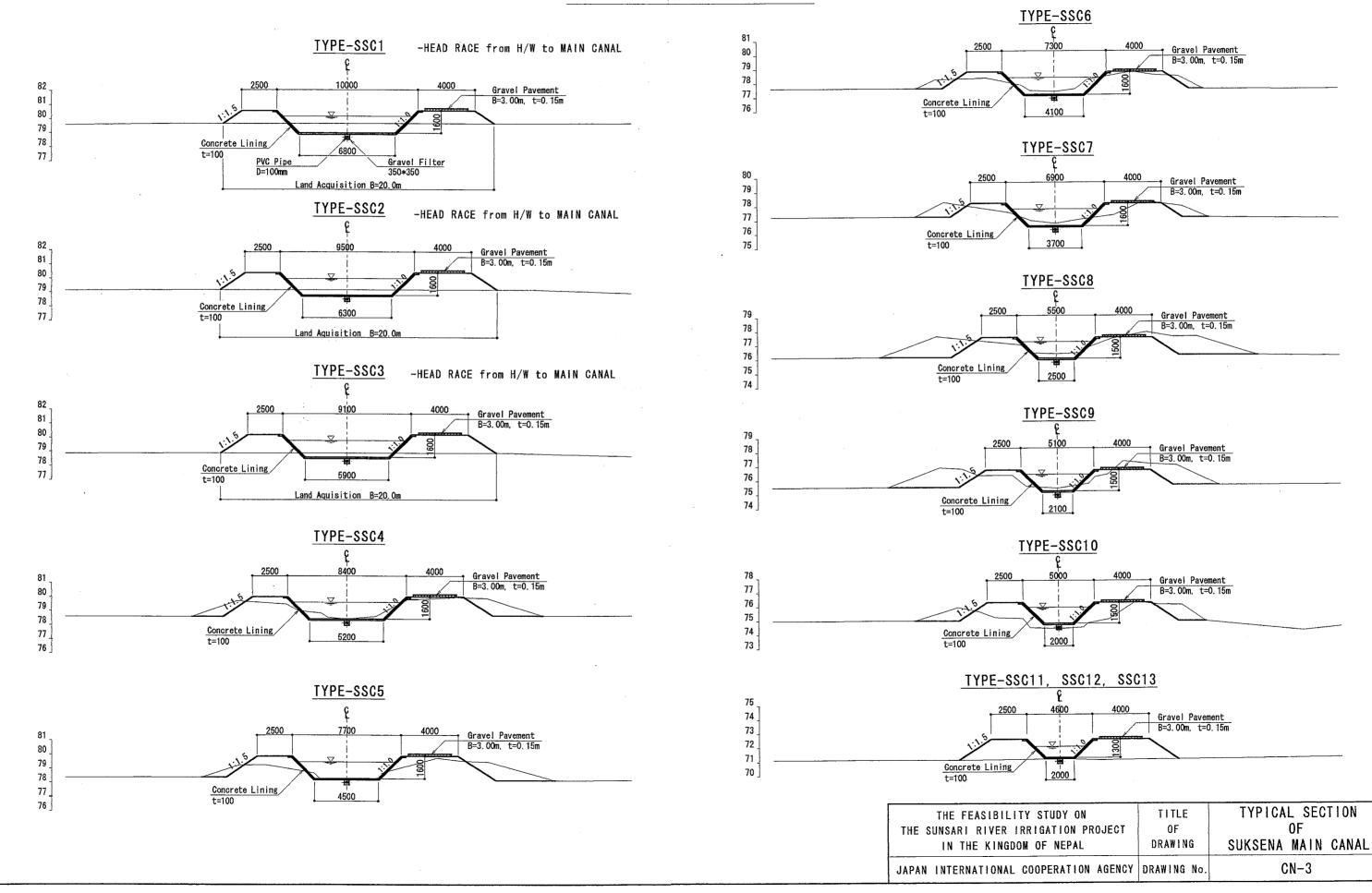
Туре	Q(m3/s)	hd(m)	Hd(m)	Bd(m)	Wd(m)	V(m/s)	1:md	n	l
D1	0.0-1.0	1.00	1.30	2.00	4.60	0.47	1.0	0.035	1/2000
D2	1.0-2.0	1.00	1.30	3.00	5.70	0.50	1.0	0.035	1/2000

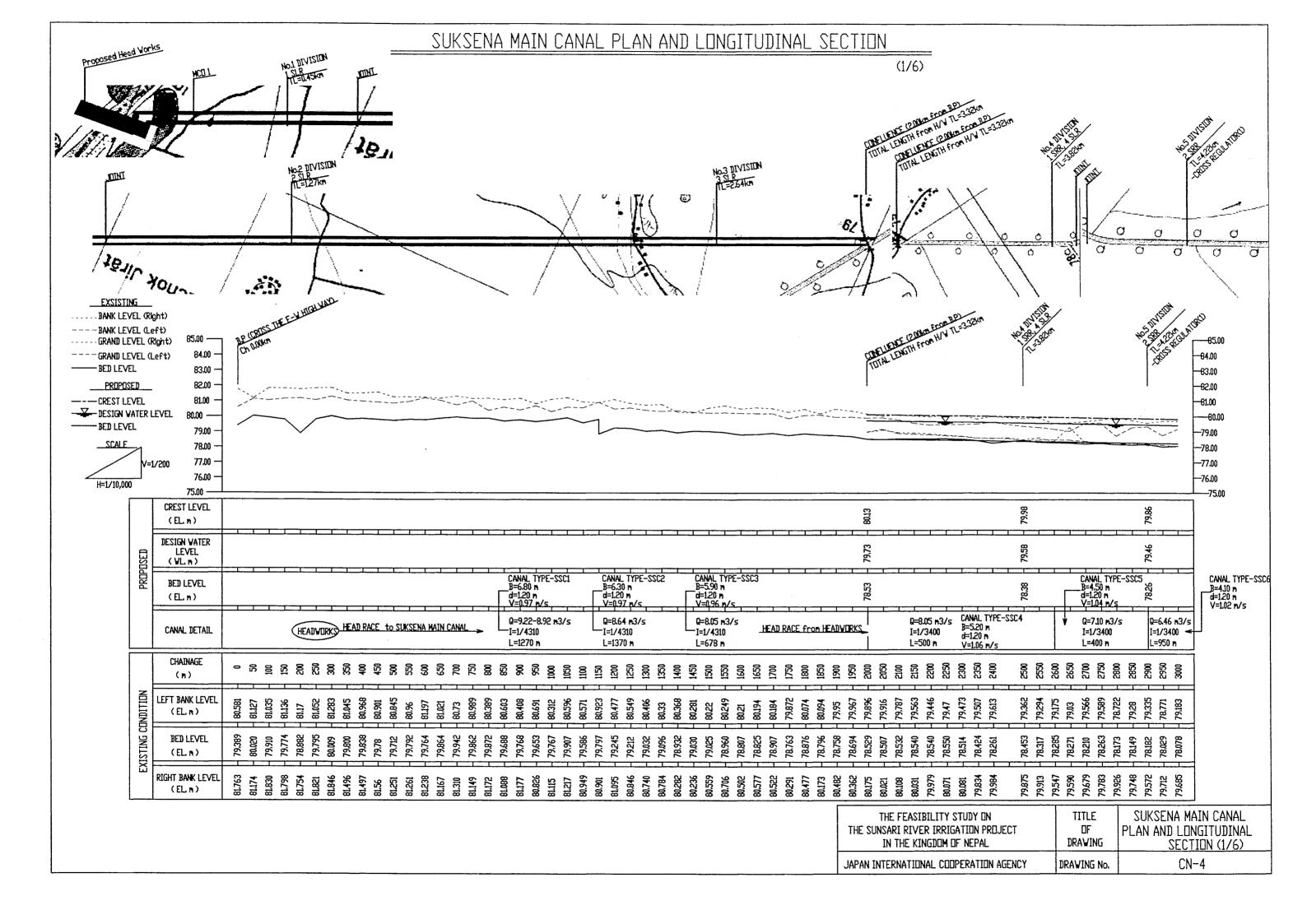
THE FEASIBILITY STUDY ON THE SUNSARI RIVER IRRIGATION PROJECT IN THE KINGDOM OF NEPAL	TITLE OF DRAWING	TYPICAL SECTION OF SECONDARY AND TERTIARY CANAL
JAPAN INTERNATIONAL COOPERATION AGENCY	DRAWING NO.	CN-2

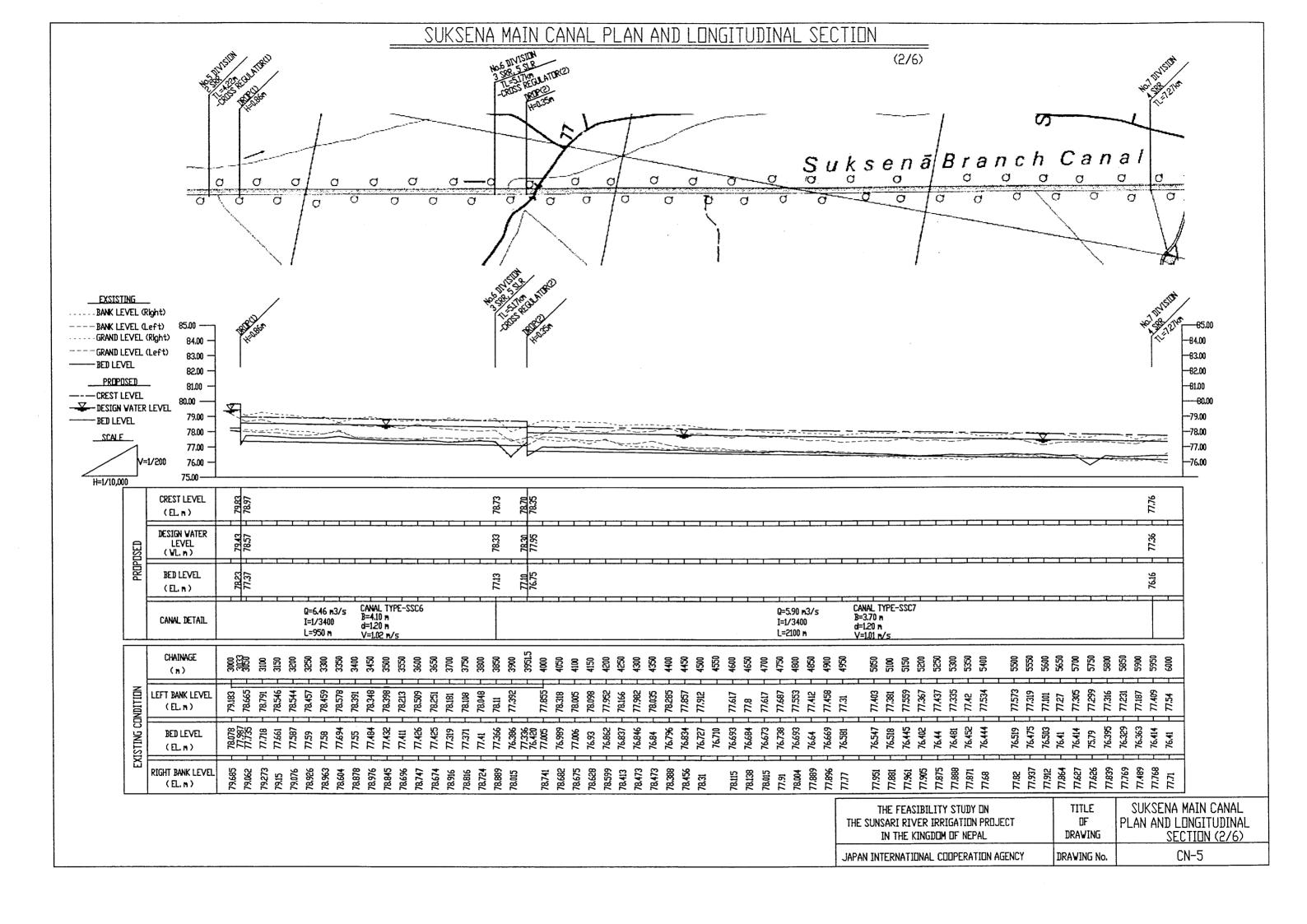
TYPICAL SECTION OF SUKSENA MAIN CANAL

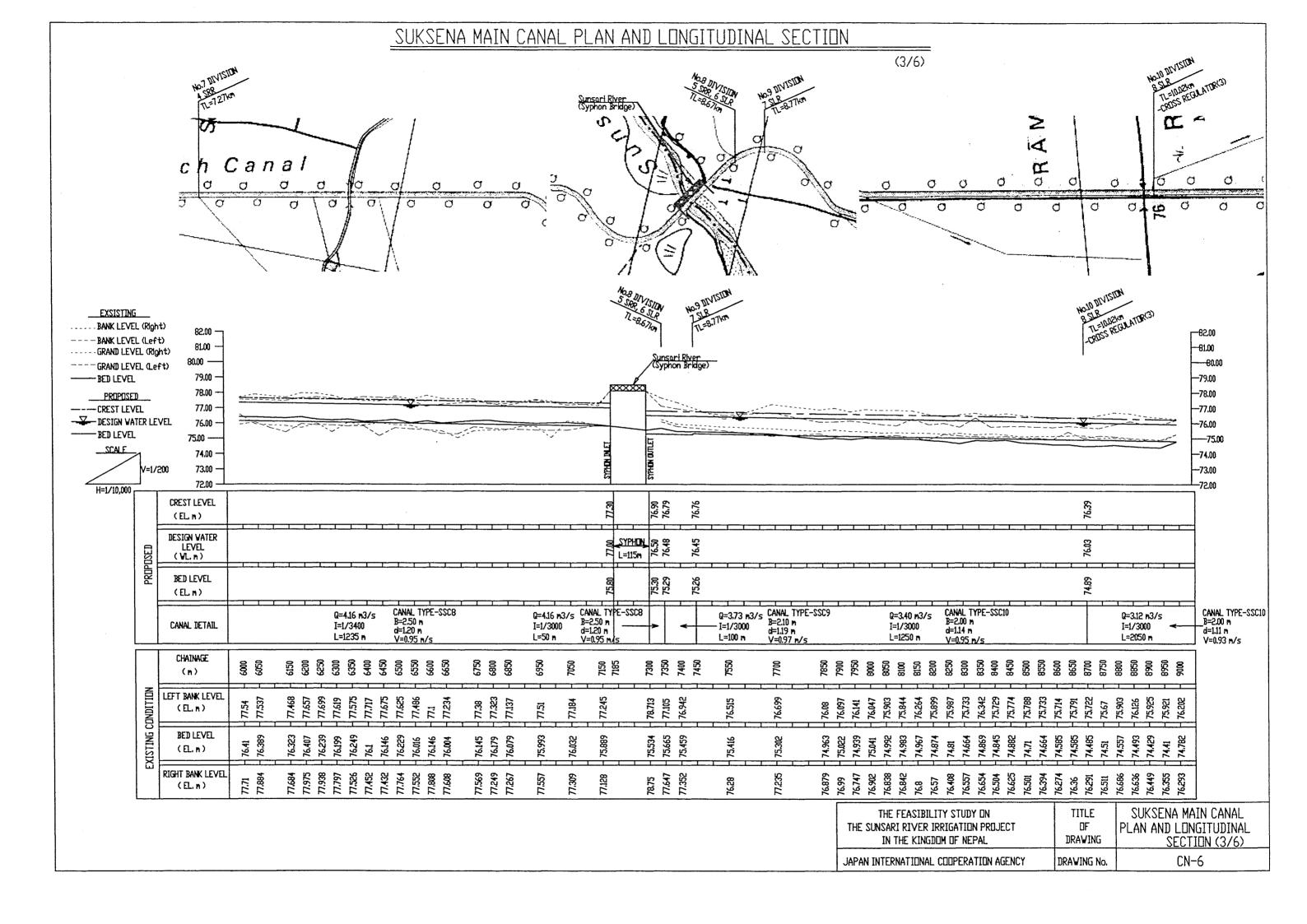
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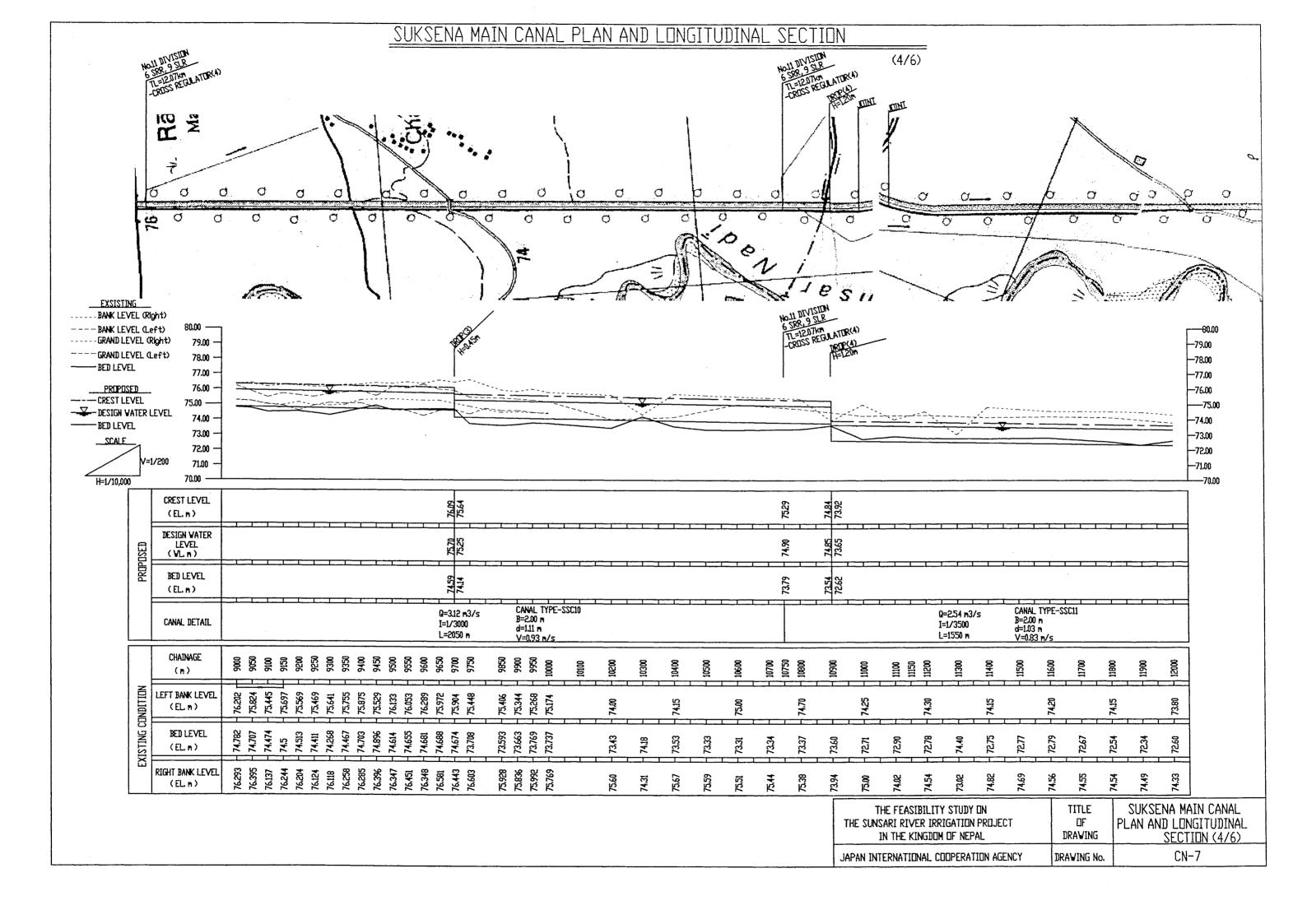
CONCRETE LINING CANAL

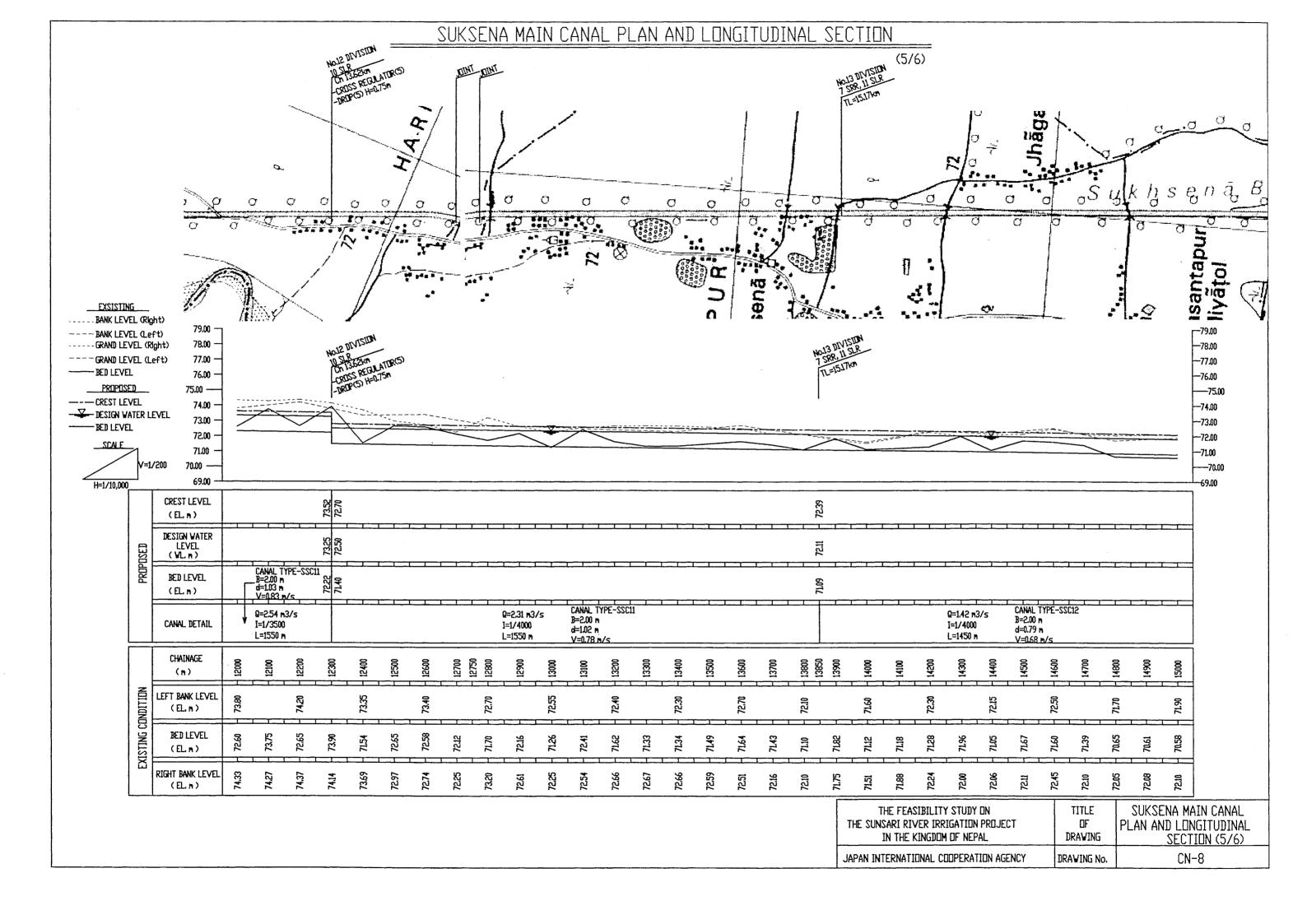


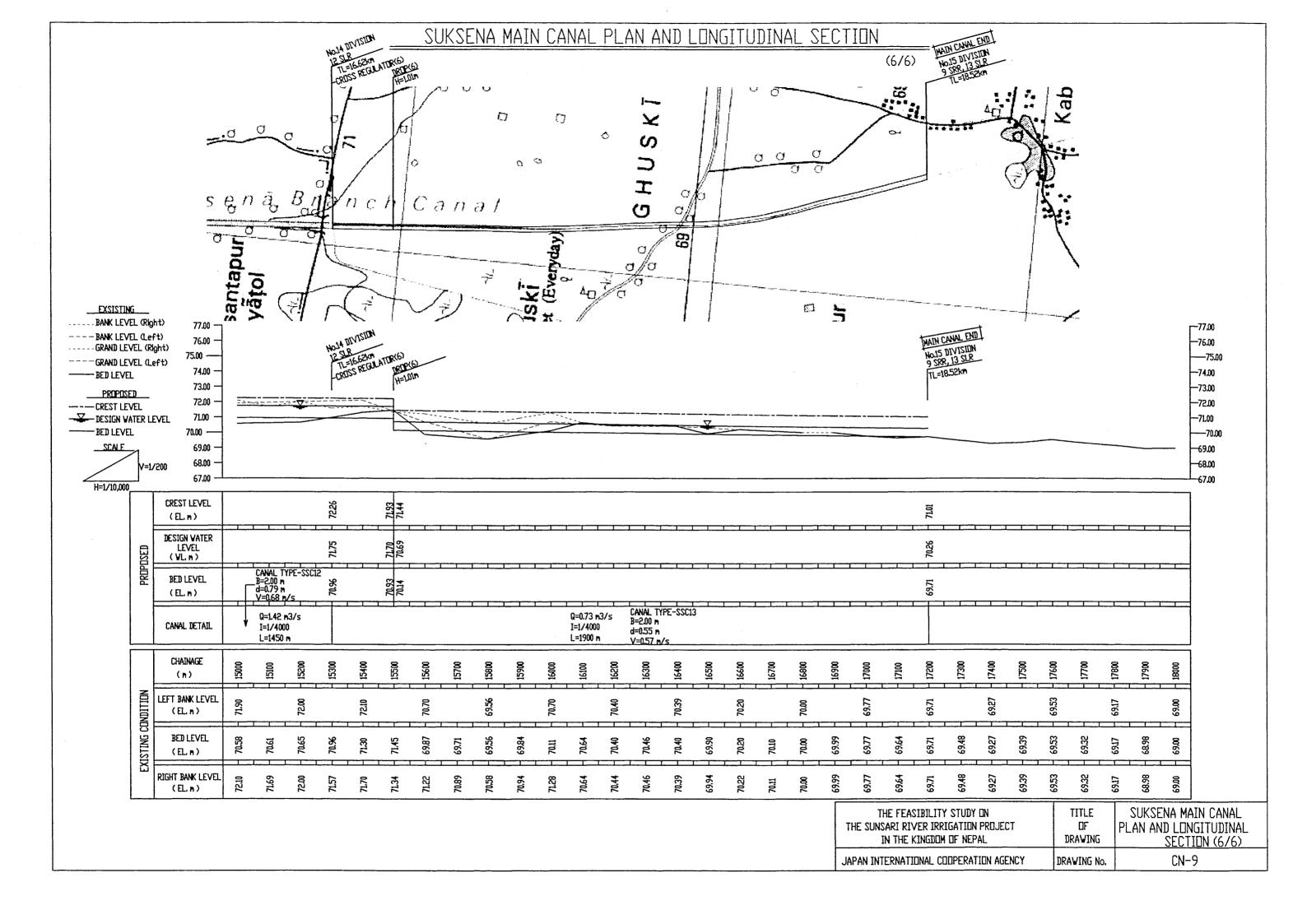












TYPICAL SECTION OF SHANKARPUR MAIN CANAL

S=1:250

CONCRETE LINING CANAL

