REPUBLIC OF THE PHILIPPINES

METROPOLITAN WATERWORKS AND SEWERAGE SYSTEM

THE FEASIBILITY STUDY

ON

THE BALARA WATER TREATMENT PLANT REHABILITATION PROJECT

VOLUME IV

DRAWINGS

MARCH/ 1992

JAPAN INTERNATIONAL COOPERATION AGENCY

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THE FEASIBILITY STUDY

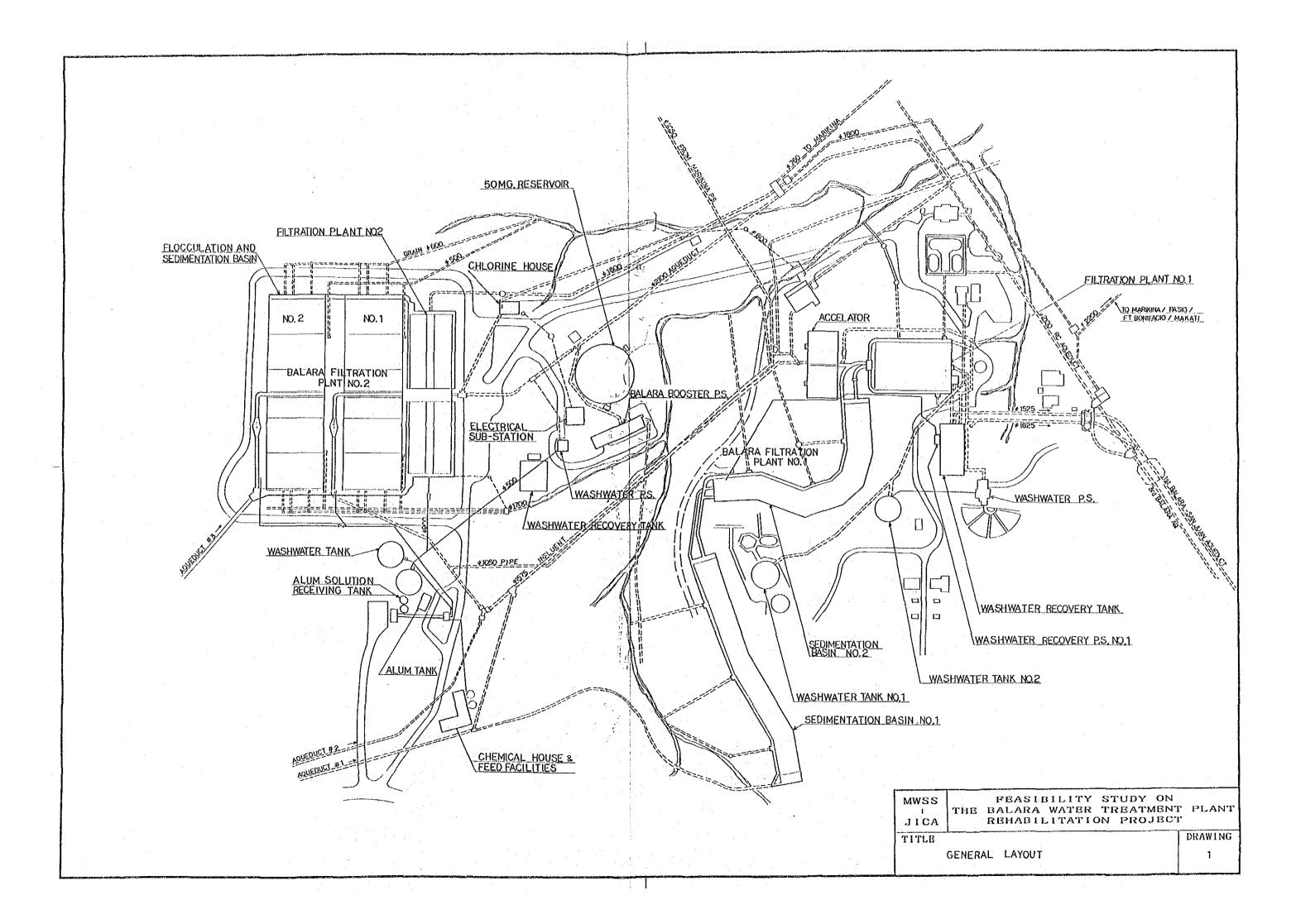
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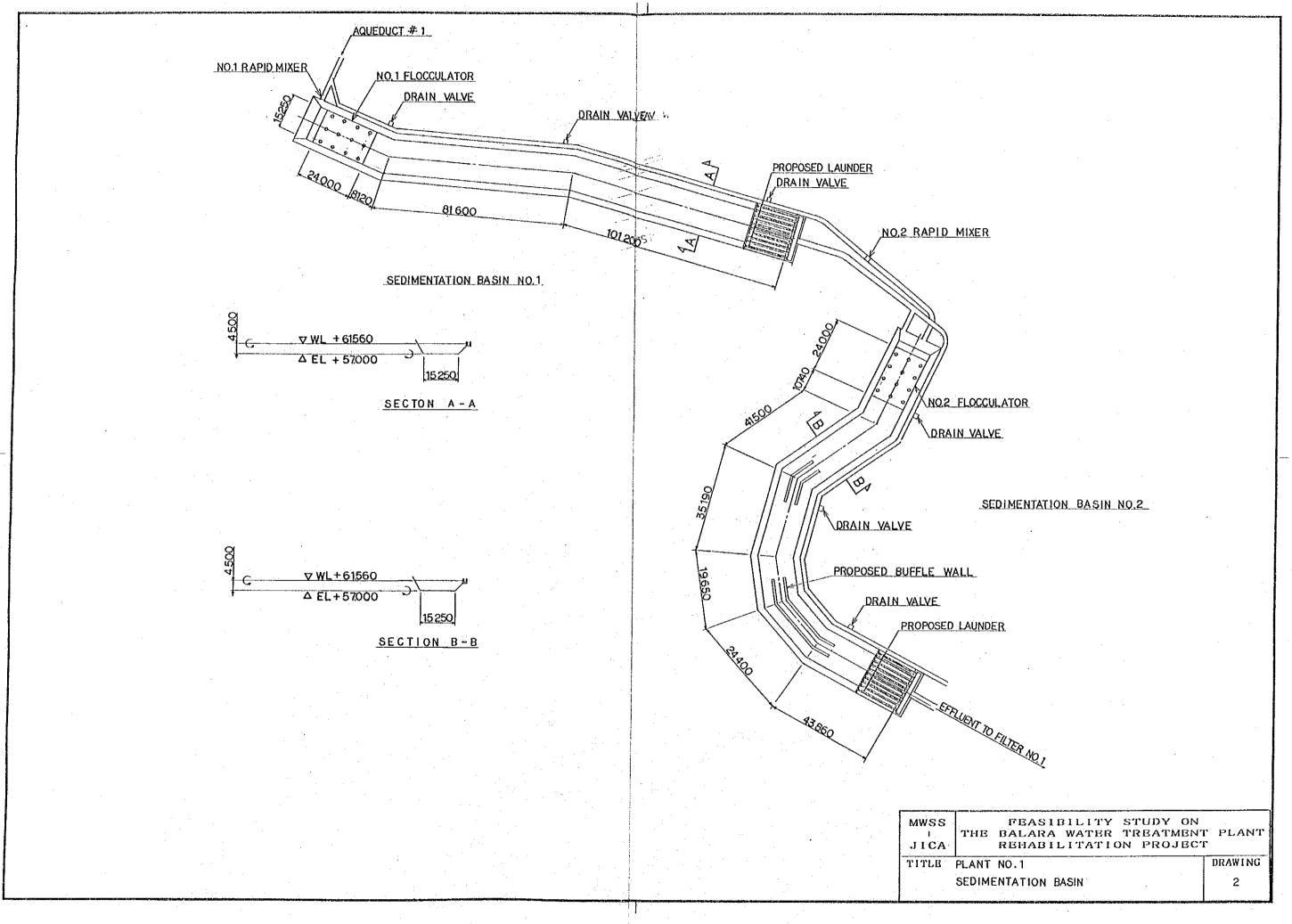
THE BALARA WATER TREATMENT PLANT REHABILITATION PROJECT

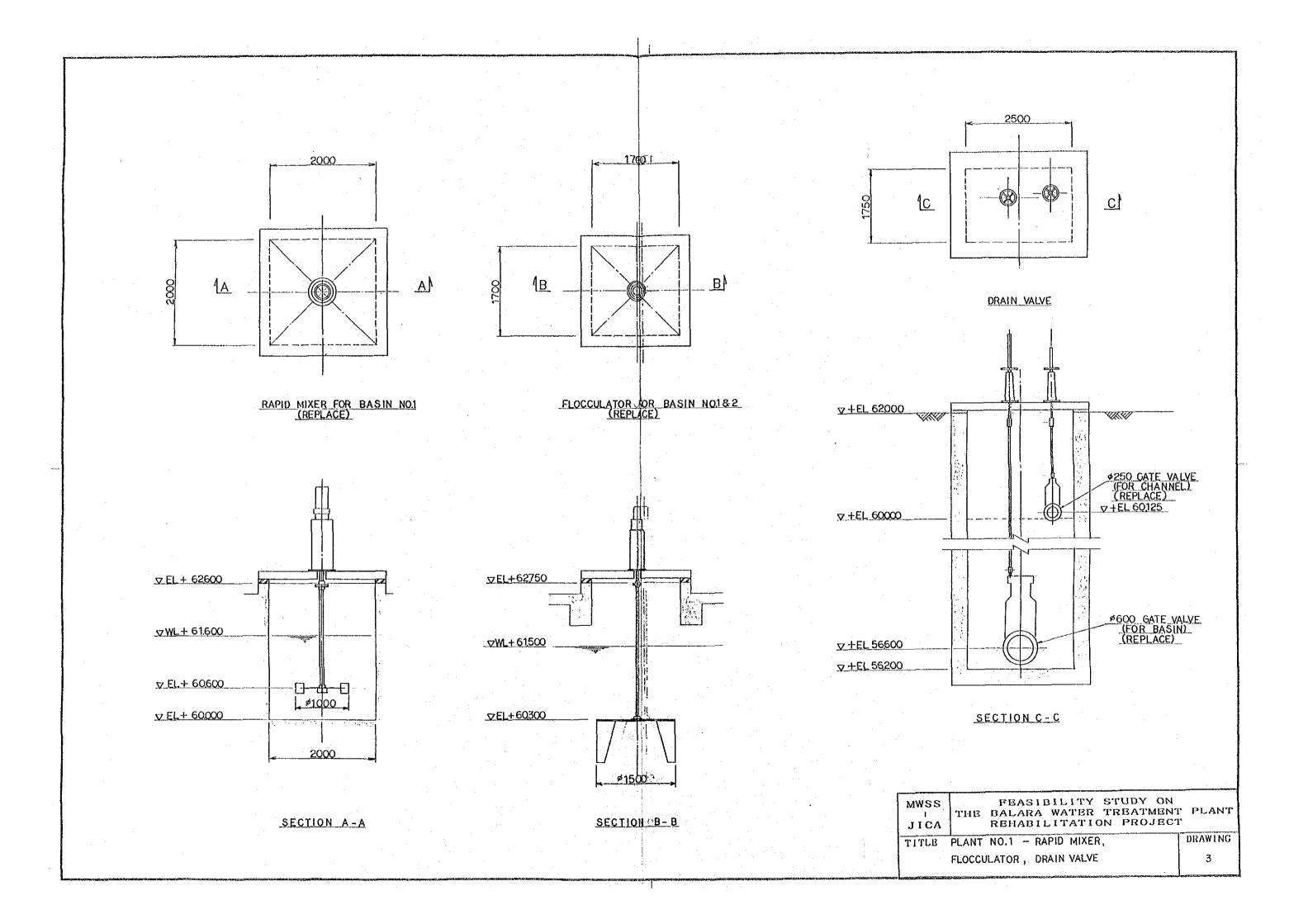
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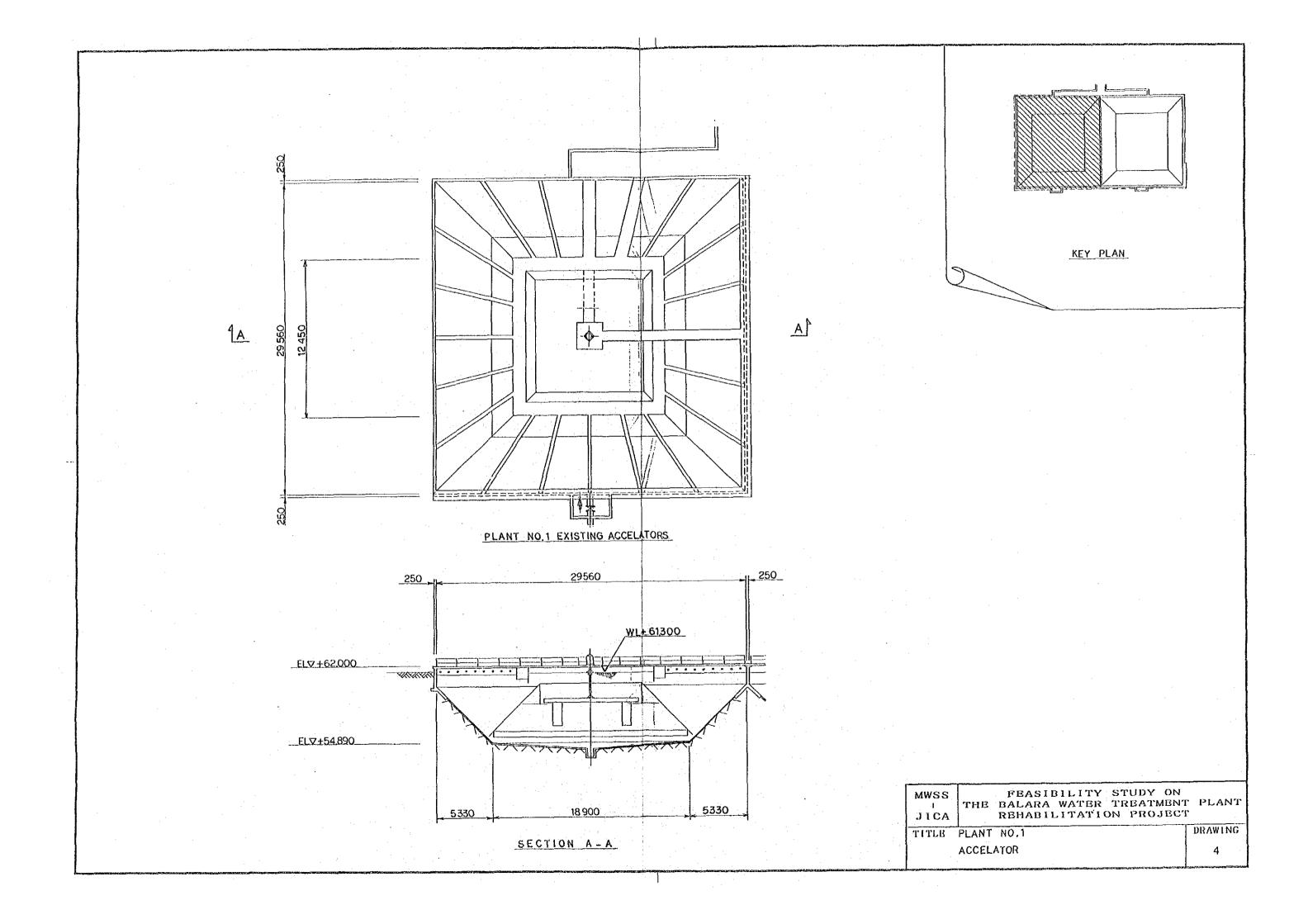
Drawing	Title
1	General Layout
2	Plant No.1-Sedimentation Basin
3	Plant No.1-Rapid Mixer, Flocculator, Drain Valve
4	Plant No.1-Accelator
, 5	Plant No.1-Accelator Drive Unit, Sludge Extraction Valve
6	Plant No.1-Filter
7	Plant No.1-Surface Wash Piping, Venturi Tube, Hydraulic and Pneumatic Control Unit
8	Plant No.1-Wash Water Recovery Tank
9	Plant No.1-Washwater Pump, Washwater Recovery Pump
10	Plant No.2-Flocculation and Sedimentation Bain
11	Plant No.2-Flushing Pump
12	Plant No.2-Flocculator
13	Plant No.2-Filter
14	Plant No.2-Surface Wash Piping, Hydraulic Control Unit

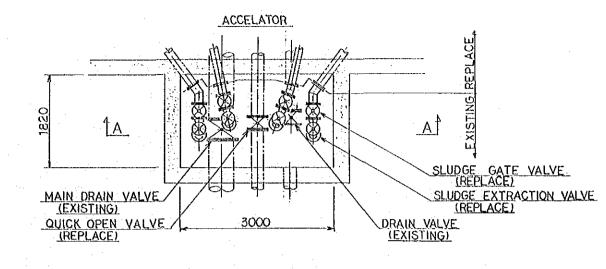
Drawing	Title
16	Plant No.2-Washwater Pump, Washwater Recovery Pump
17	Plant No.1 and No.2-Washwater Tank
18	Chemical House-Alum and Polymer Feeder
19	Chlorine House-Chlorinator, Evaporator, Booster Pump
20	Plant No.1 and No.2-Single Line Diagram
21	Plant No.1 and No.2-Location of Power Receiving Equipment
22	Plant No.1 and No.2-Location of Electrical Panel
23	Plant No.1 and No.2-Outline of Electrical Panel
24	Plant No.1 and No.2-Instrumentation Flow Diagram
25	Plant No.1 and No.2-Instrumentation of Filter
26	Plant No.1 and No.2-Location of Instrumentation
27	Plant No.1 and No.2-Location of Outdoor Lighting



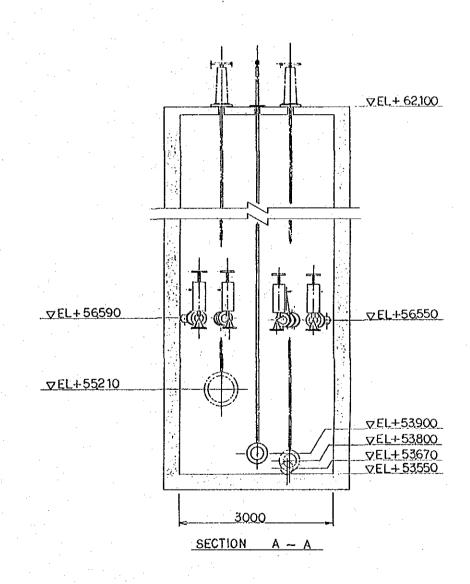




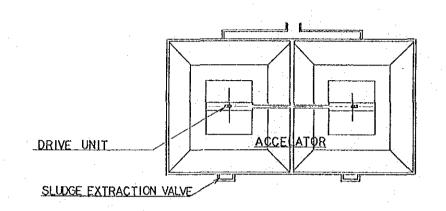


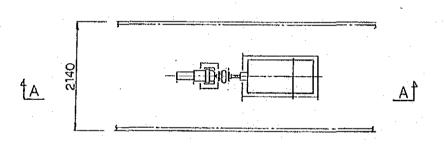


SLUDGE EXTRUCTION VALVE

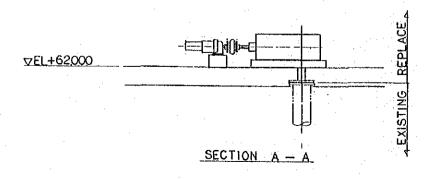


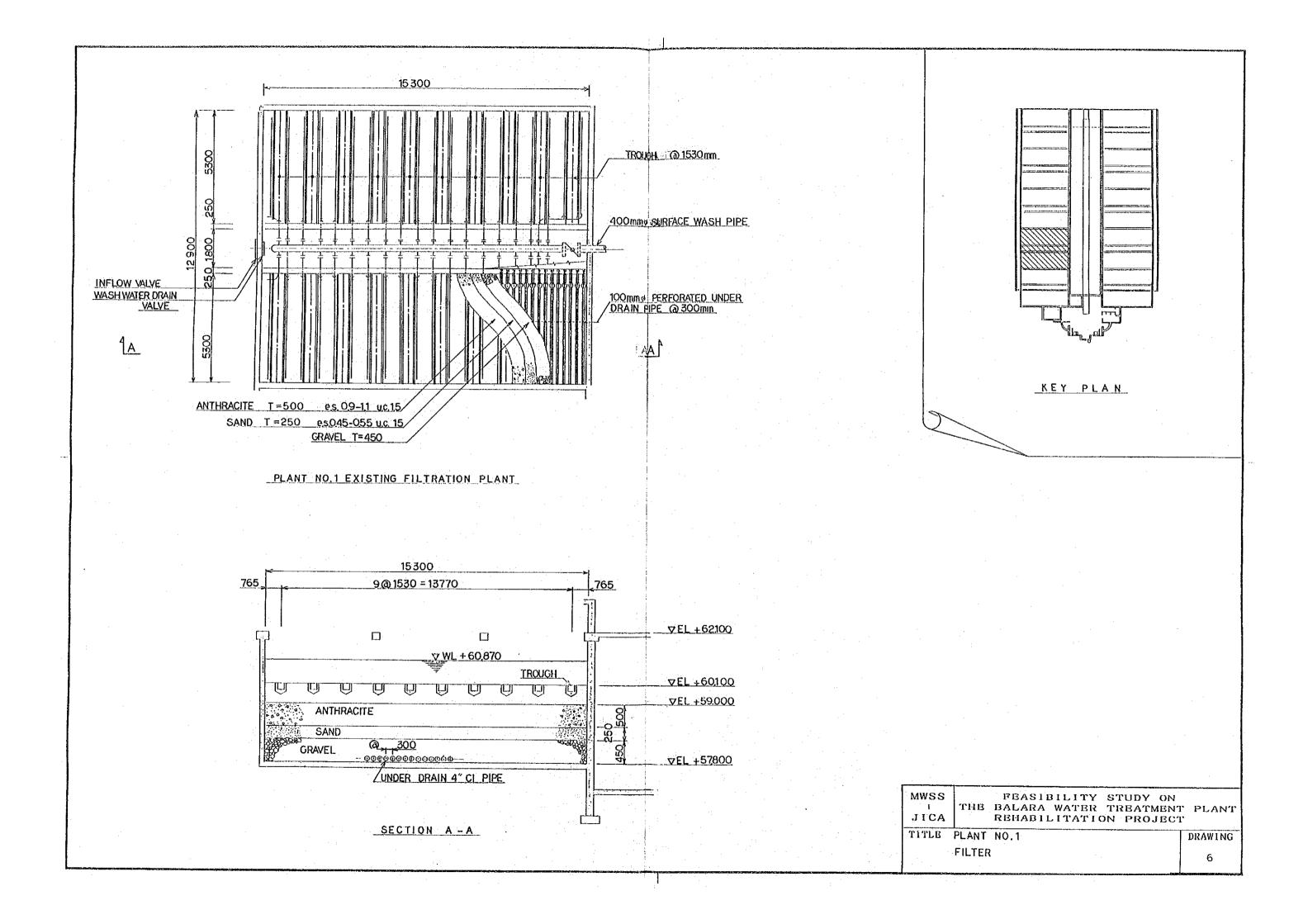
MWSS I JICA	FEASIBILITY STUDY ON THE BALARA WATER TREATMEN' REHABILITATION PROJEC	
TITLE	PLANT NO.1 - ACCELATOR DRIVE UNIT, SLUDGE EXTRACTION VALVE	DRAWING 5





DRIVE UNIT





→ FL+60700

TROUGHS

→ FL+60.100

✓ FL+59.000

ANTHRACITE

SAND

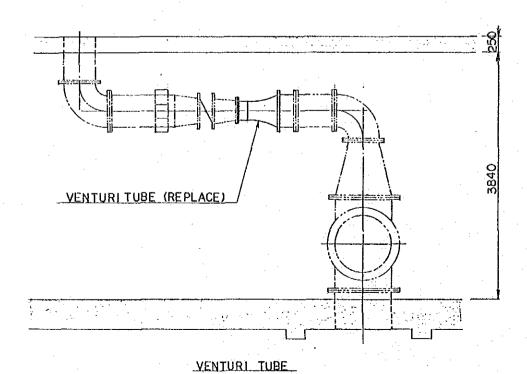
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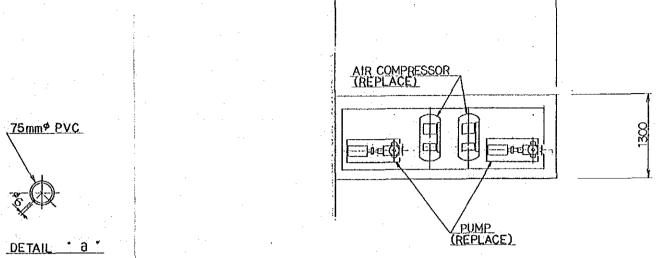
GRAVEL

O O O O O O O EL+57.800

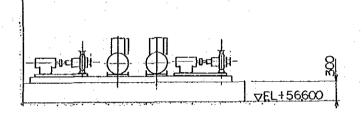
▽EL +62100

SURFACE WASH PIPING

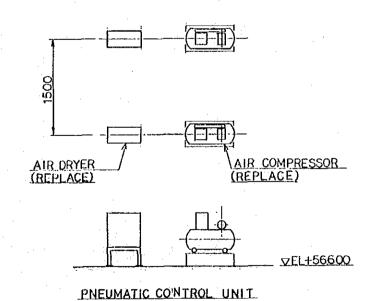




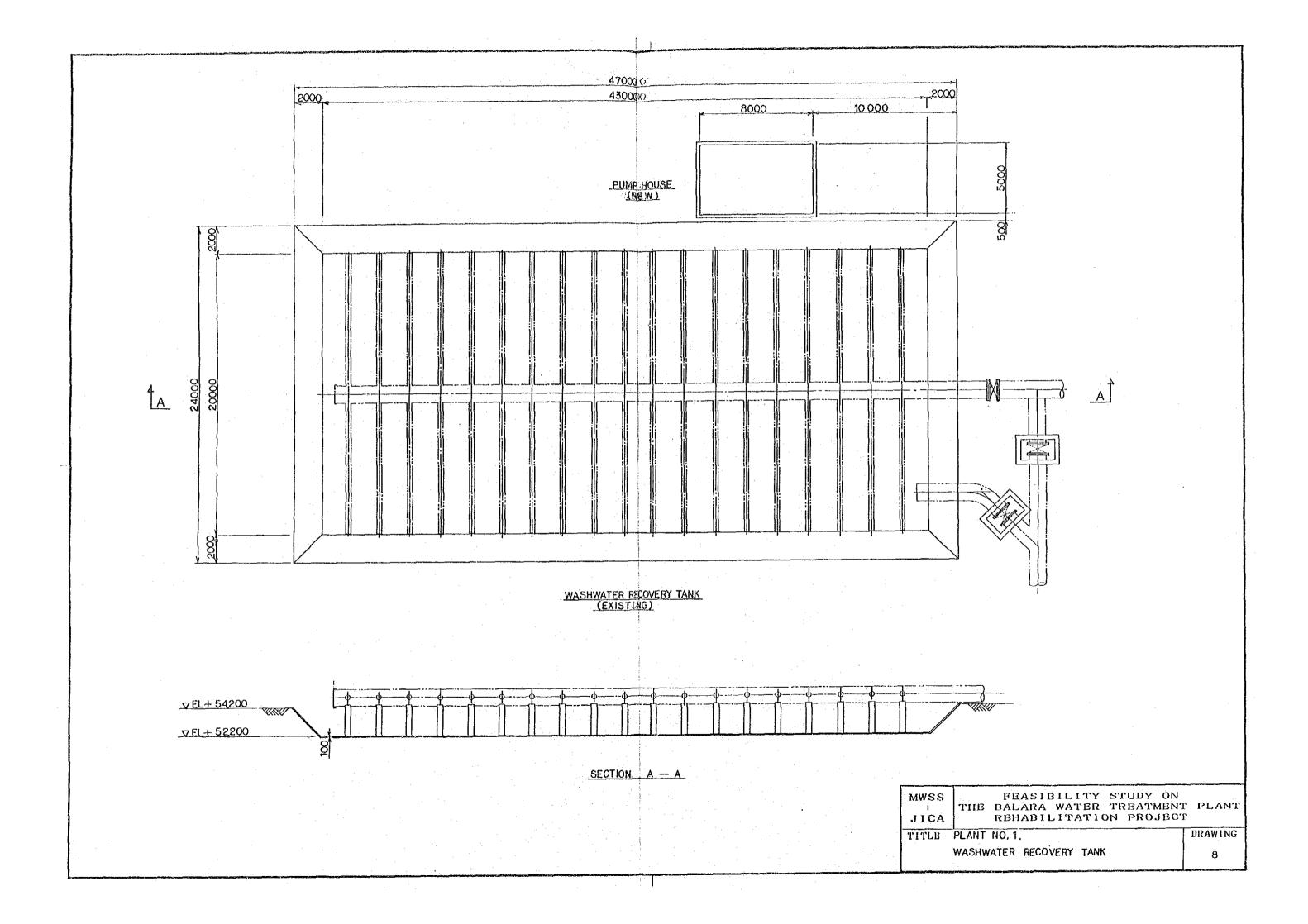
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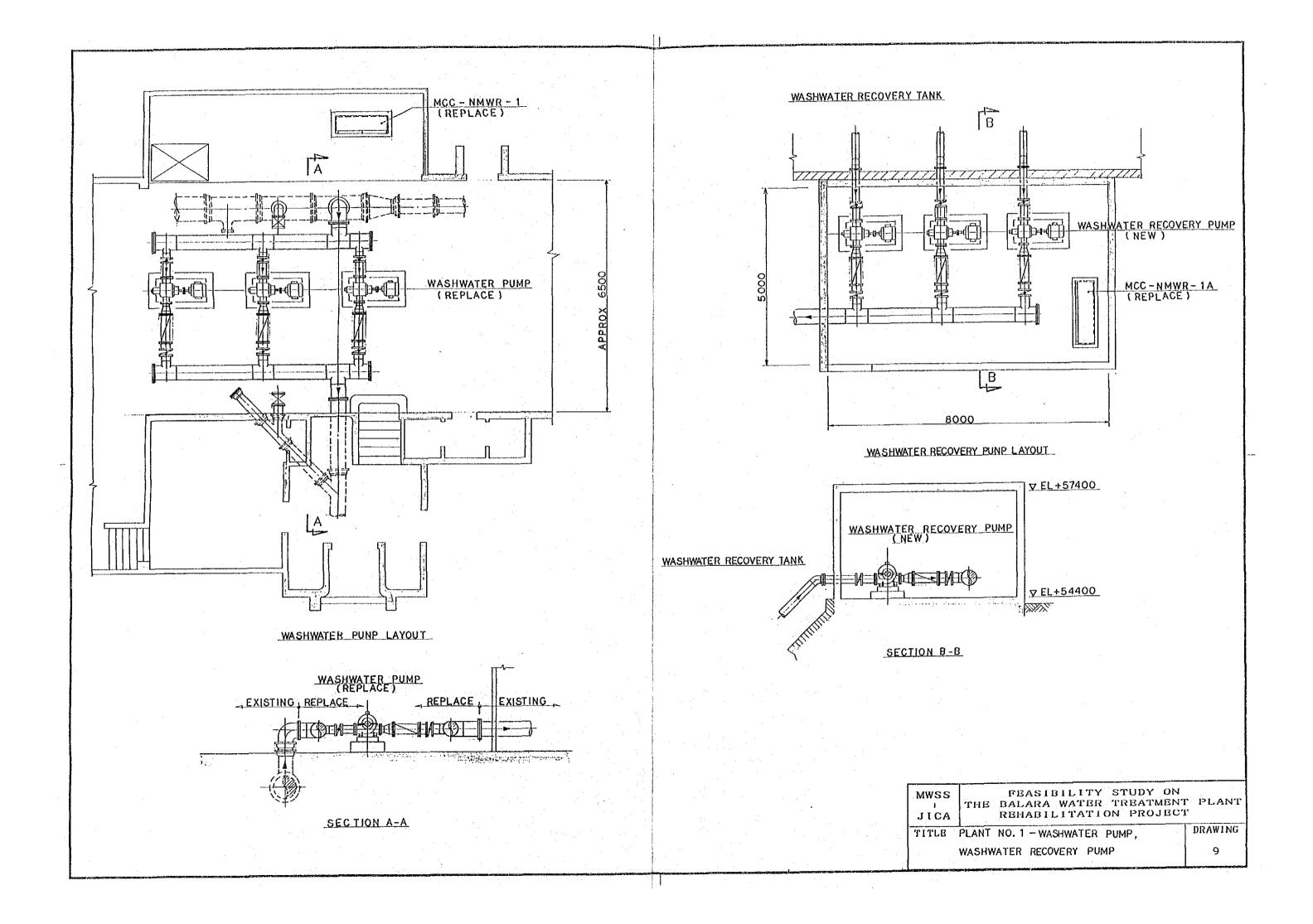


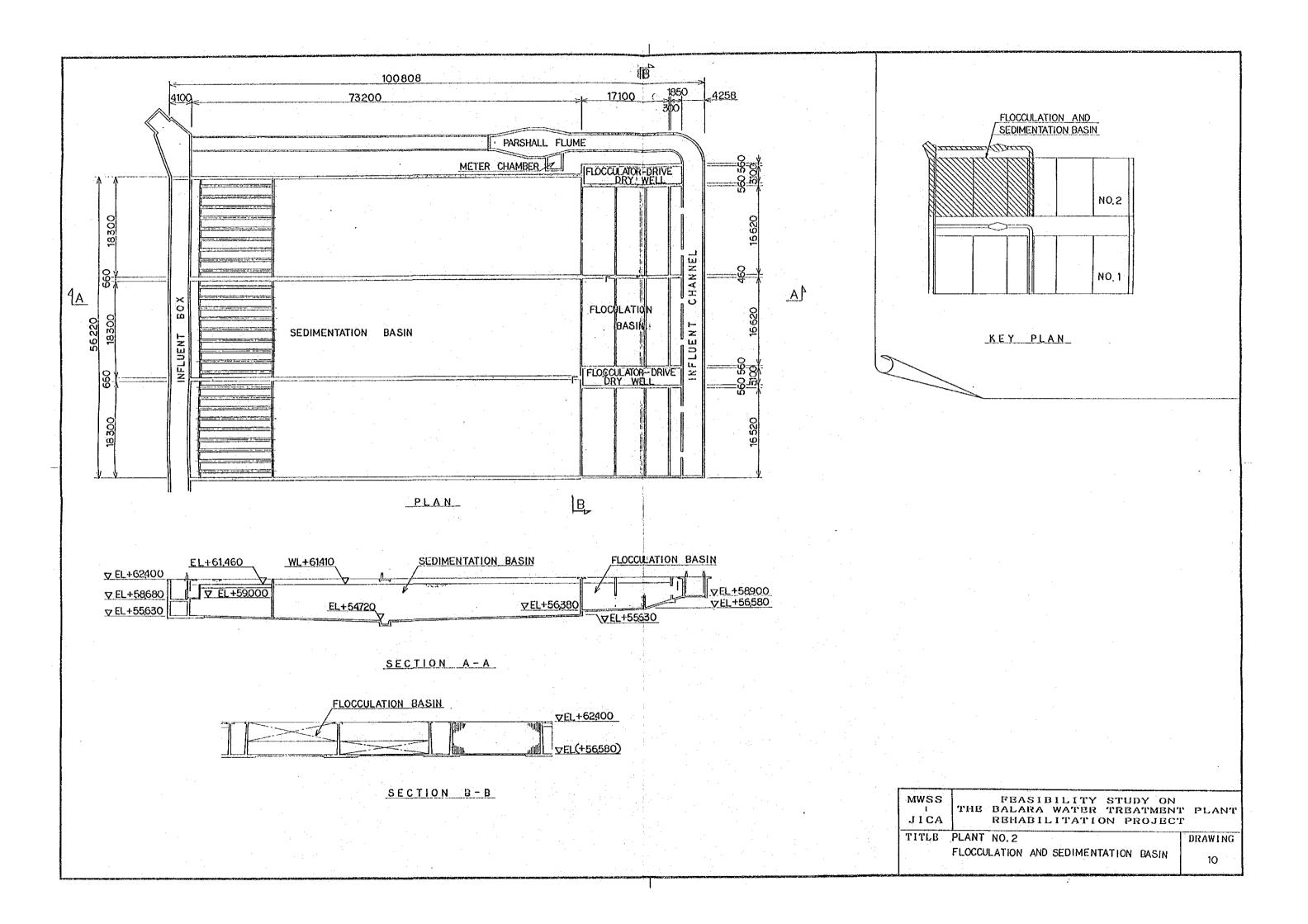
HYDRAULIC CO'NTROL UNIT

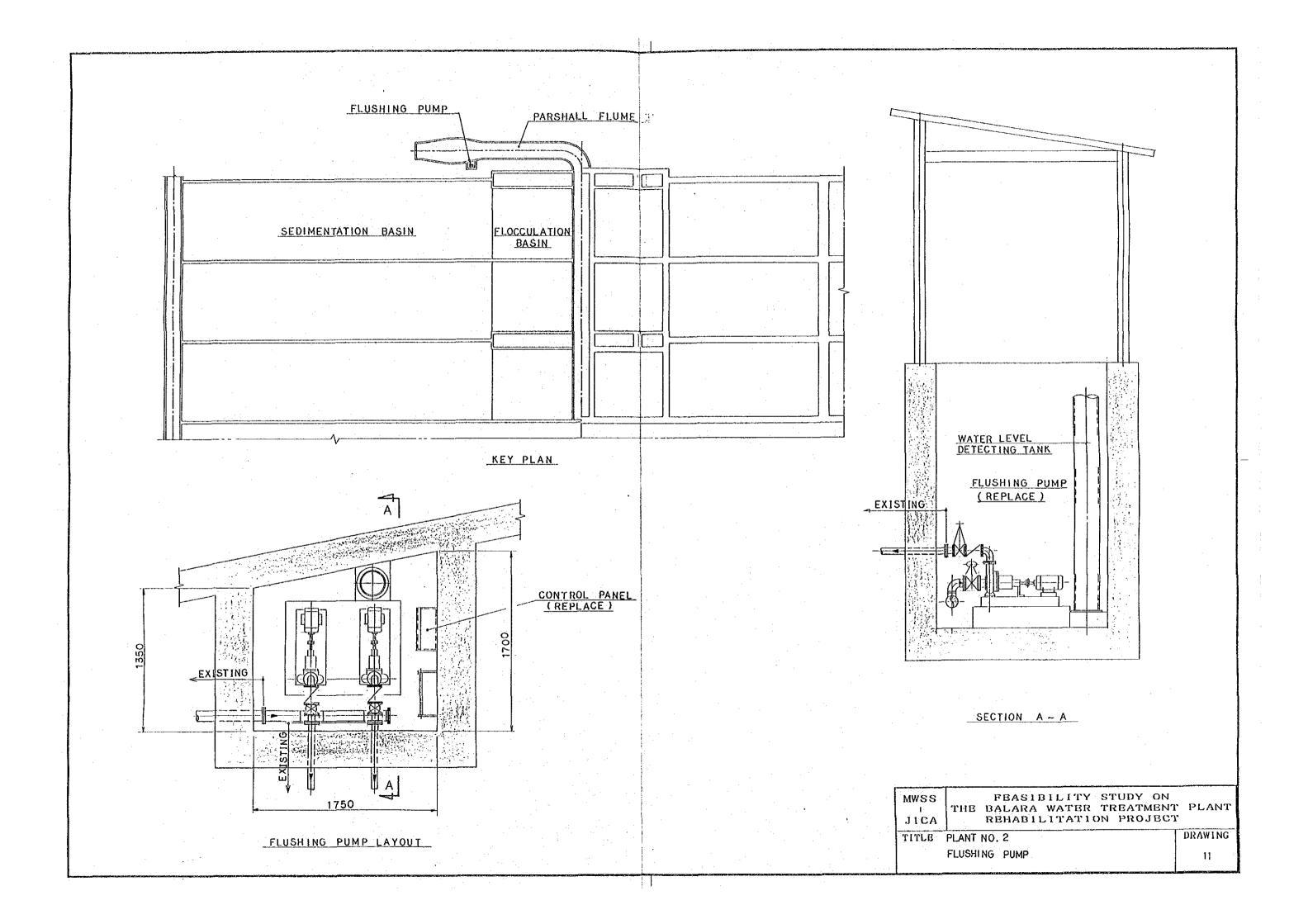


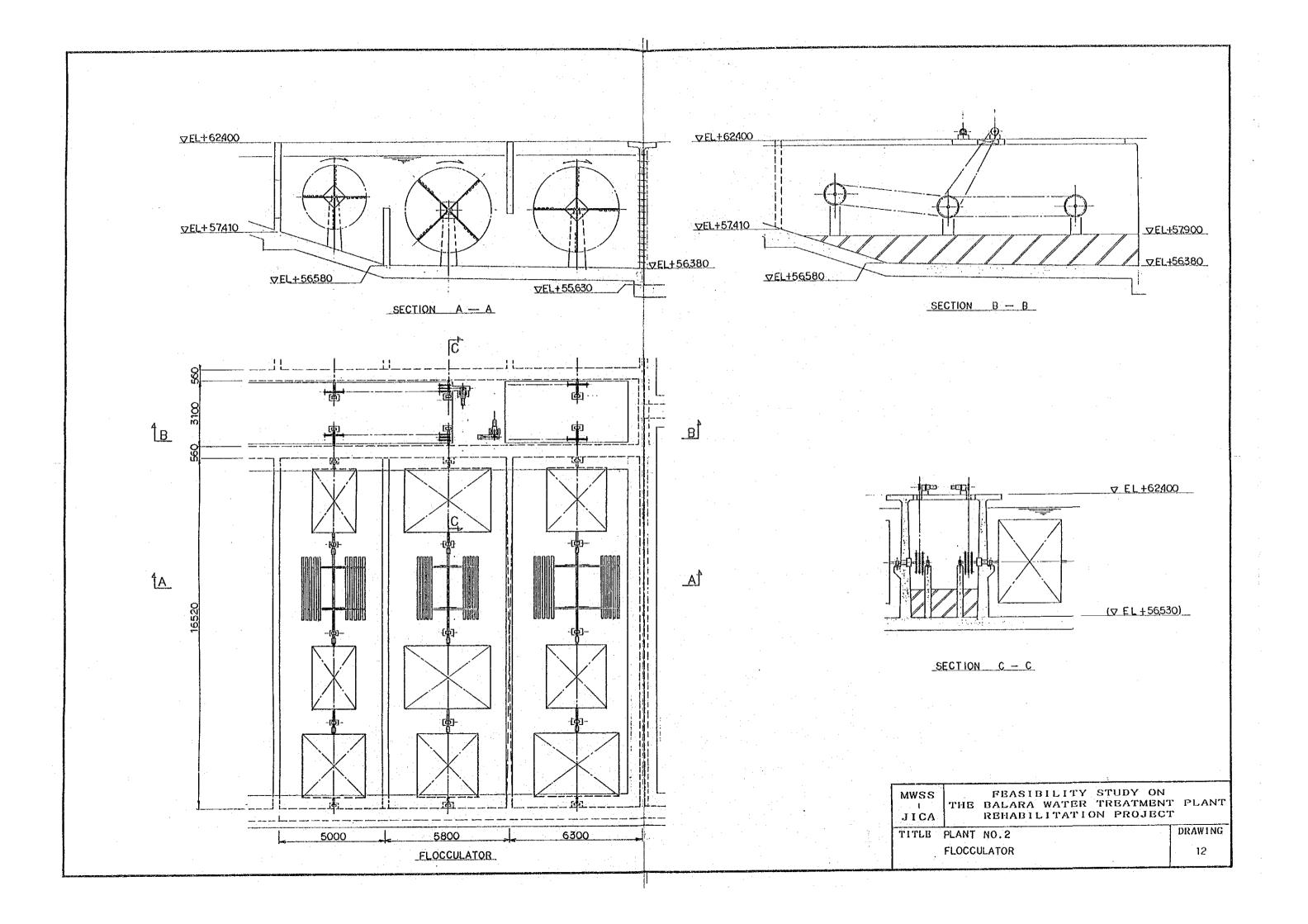
MWSS JICA	FEASIBILITY STUDY ON THE BALARA WATER TREATMEN REHABILITATION PROJEC	IT PLANT
TITLE	PLANT NO.1 - SURFACE WASH PIPING,	DRAWING
	VENTURI TUBE, HYDRAULIC AND PNUMATIC CONTROL UNIT	7

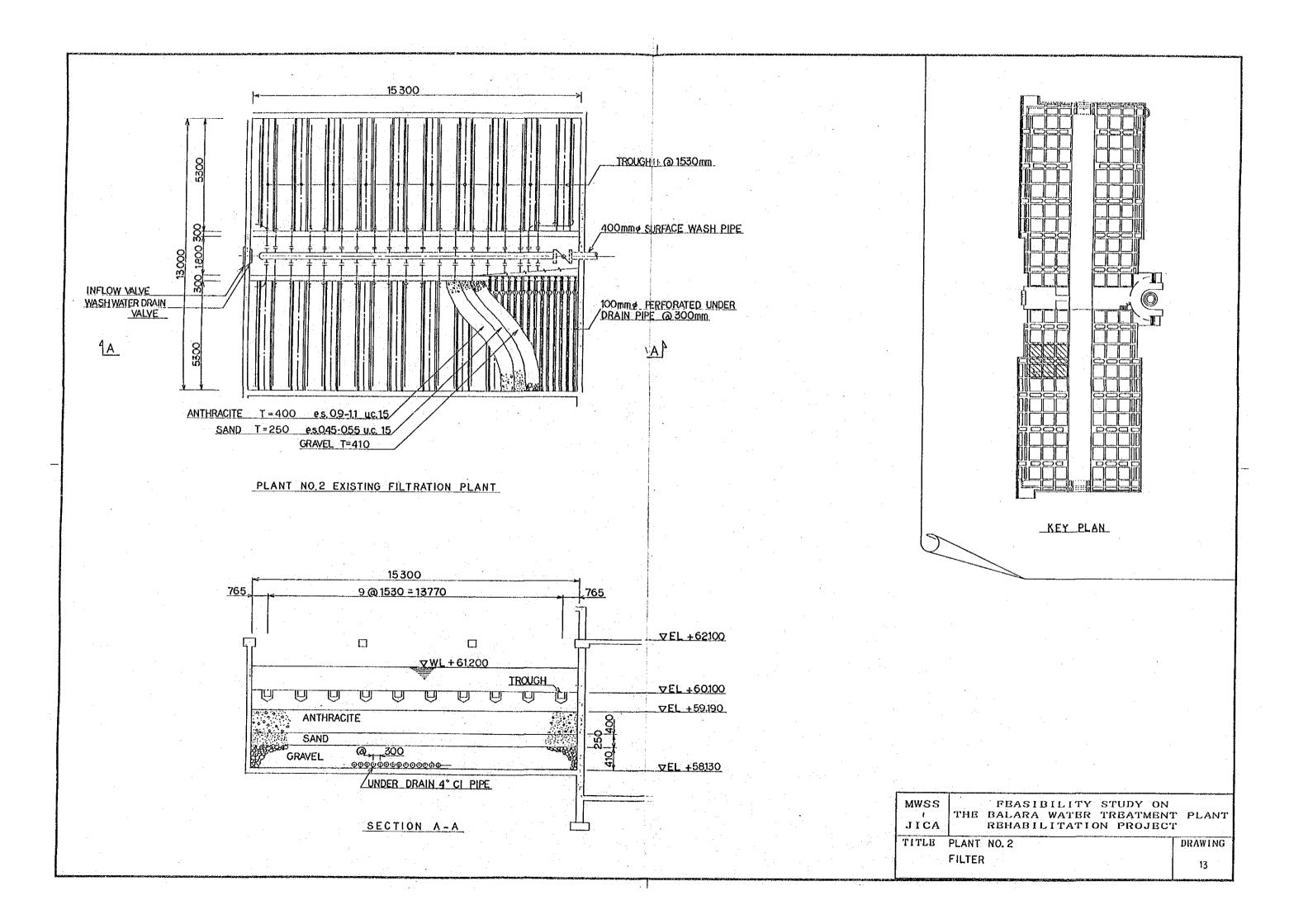


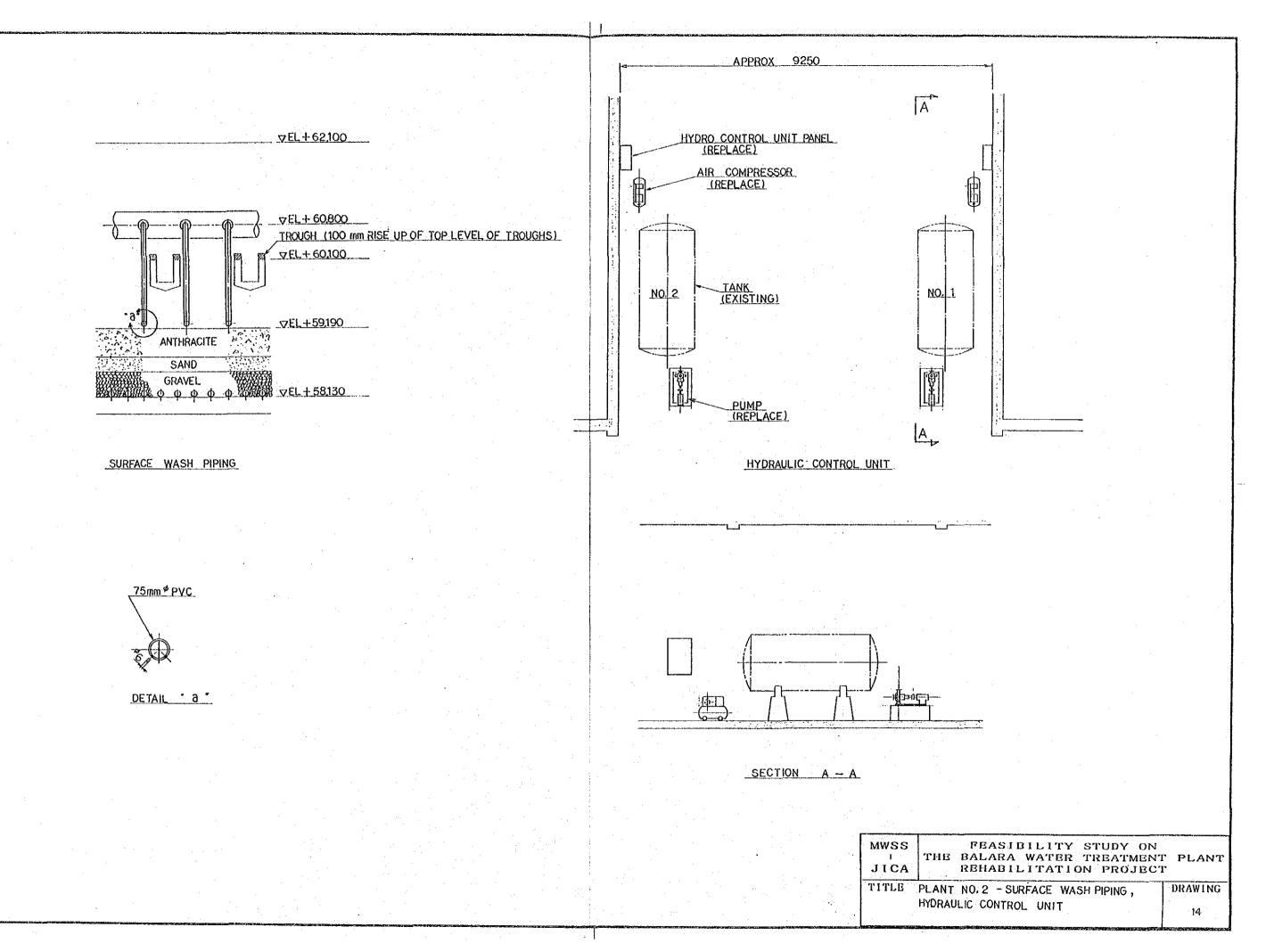


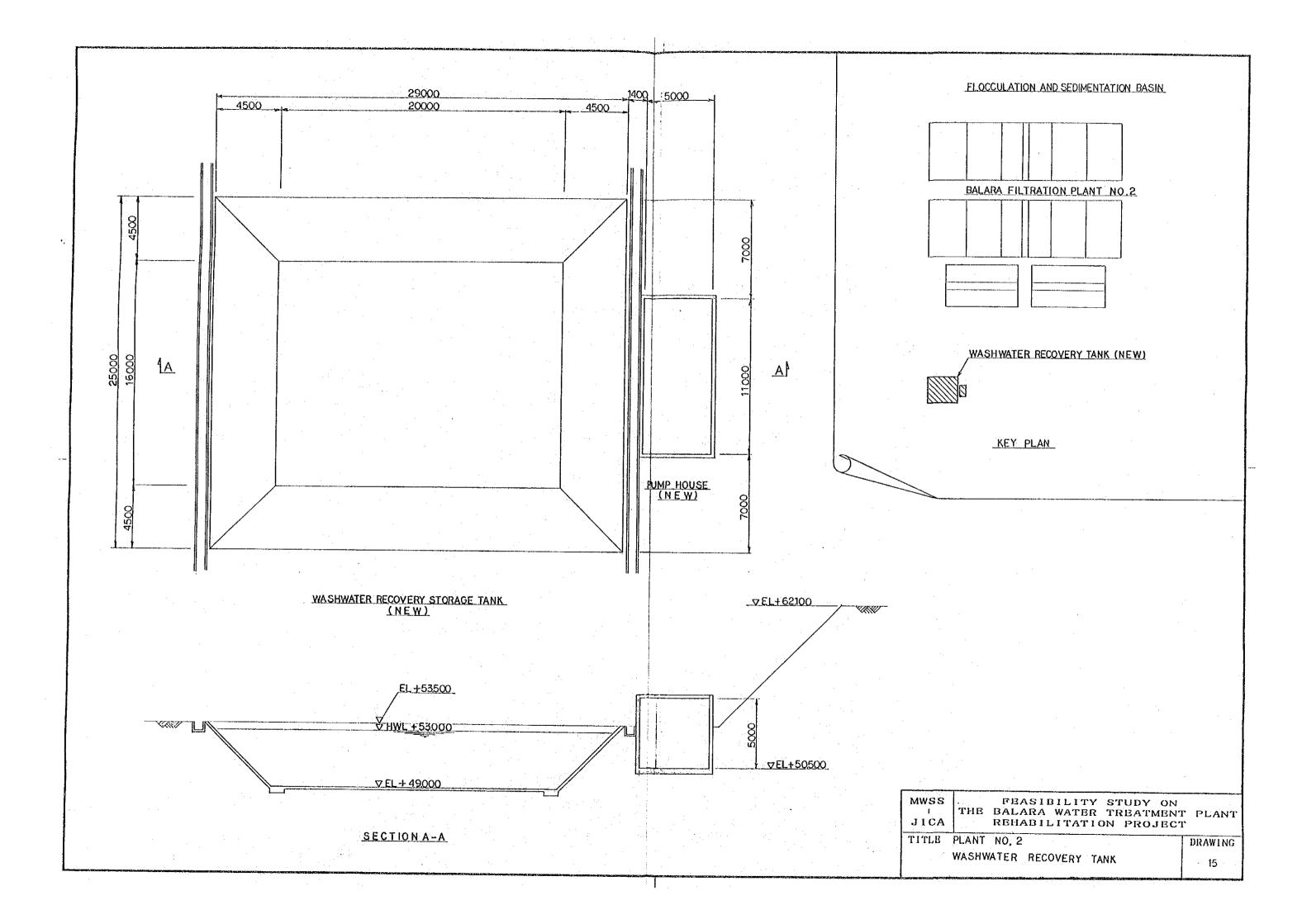


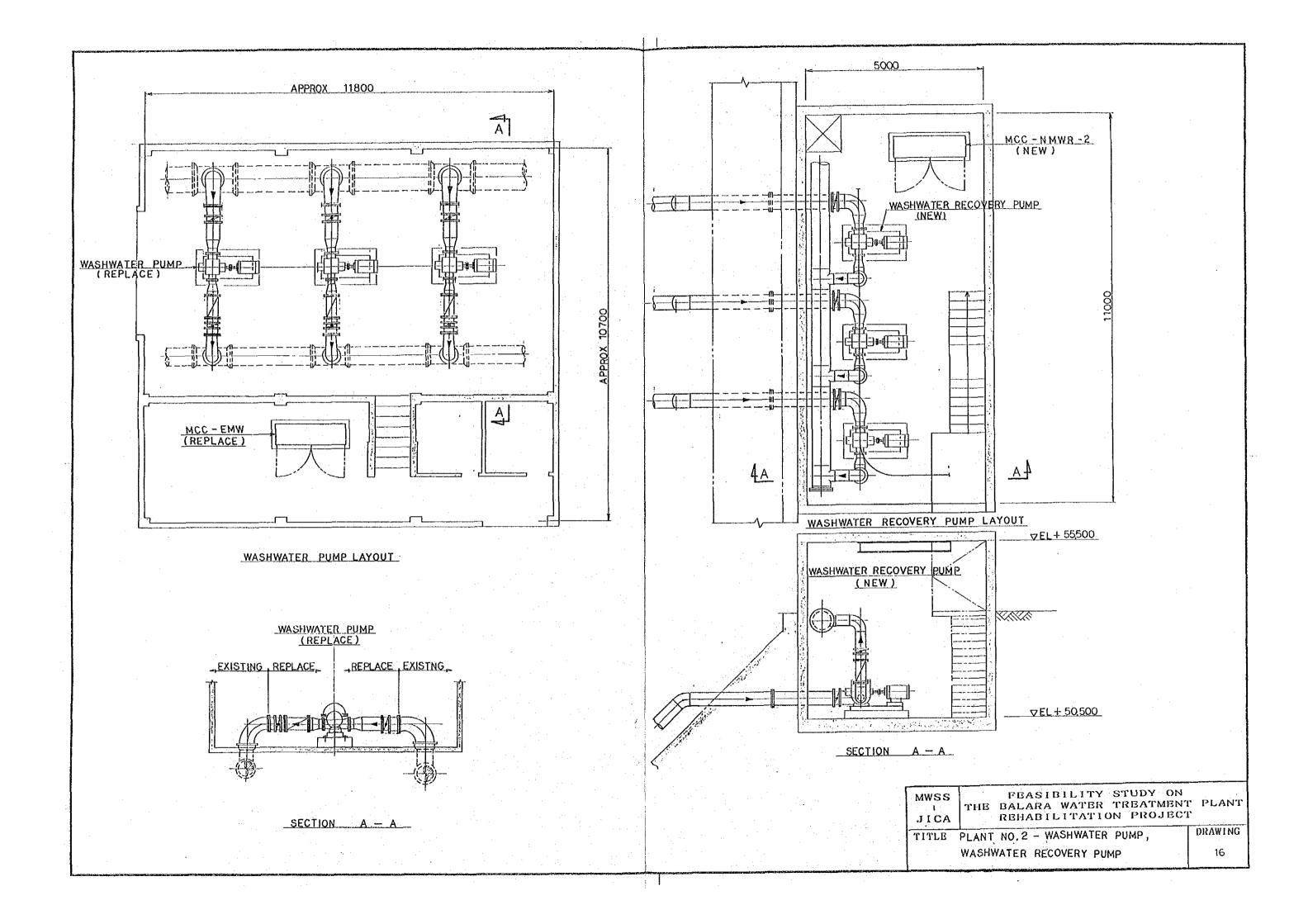


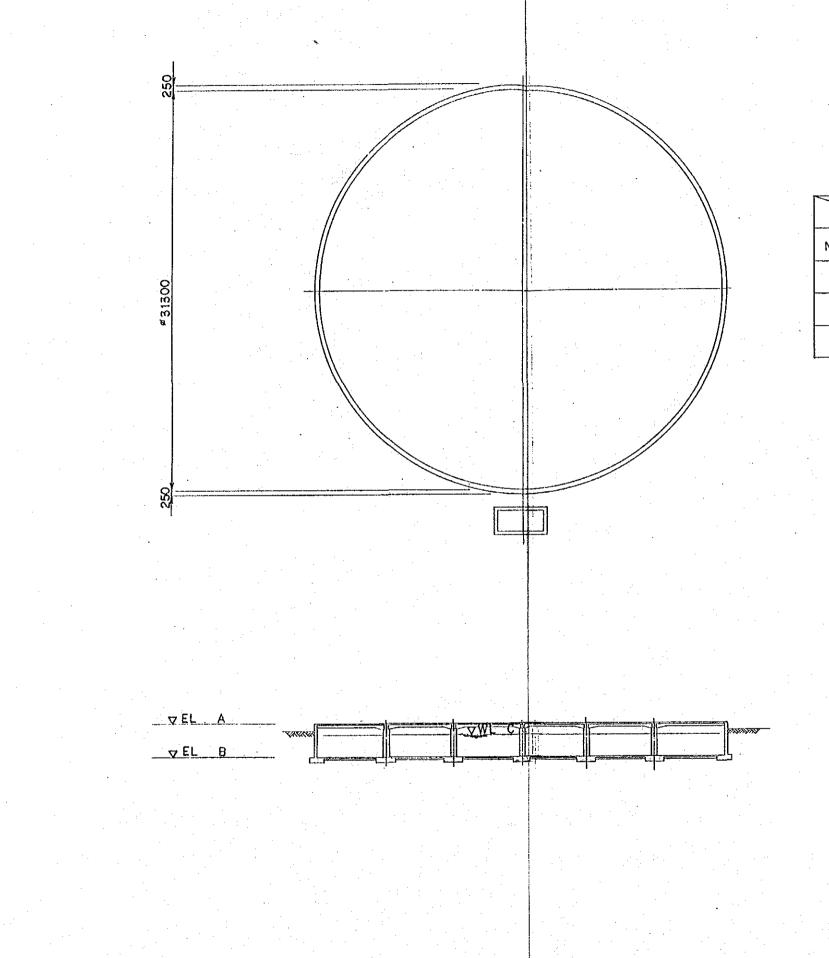












	PLANT NO.1	PLANT NO.2
NO. OF TANK	1	2
Α .	+ 72070	+ 74,030
В	+ 69,440	+71.400
С	+ 71.140	+73.100

MWSS JICA	FEASIBILITY STUDY ON THE BALARA WATER TREATMENT REHABILITATION PROJECT	
TITLB	PLANT NO. 1AND NO. 2	DRAWING
	WASHWATER TANK	17

