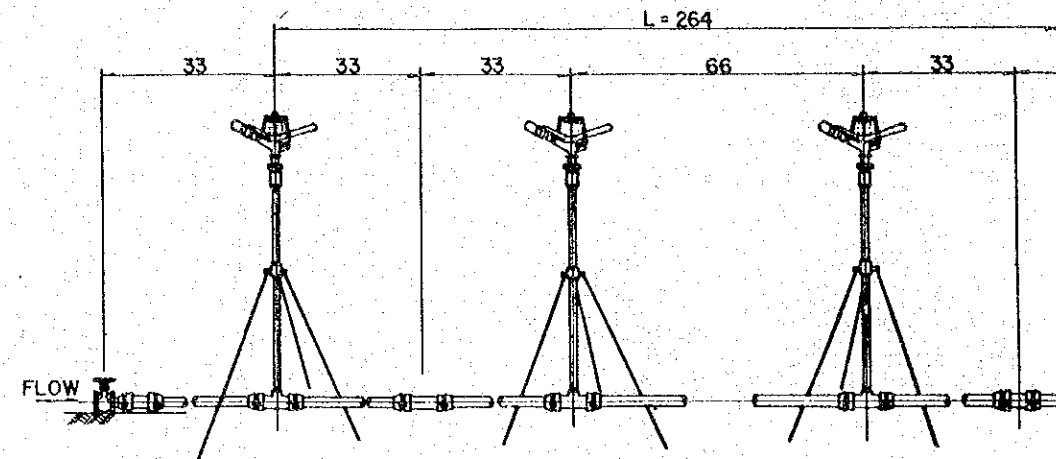
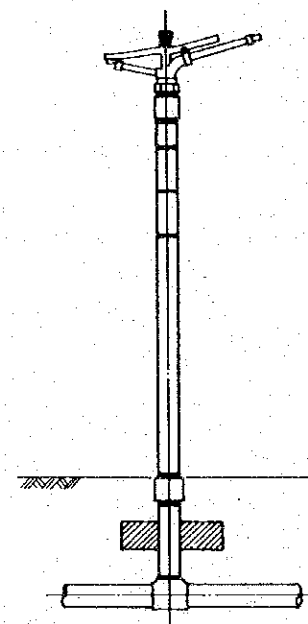


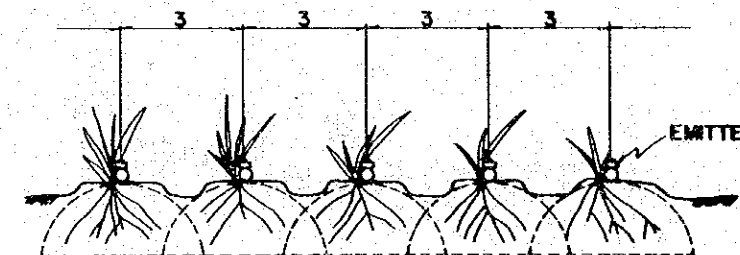
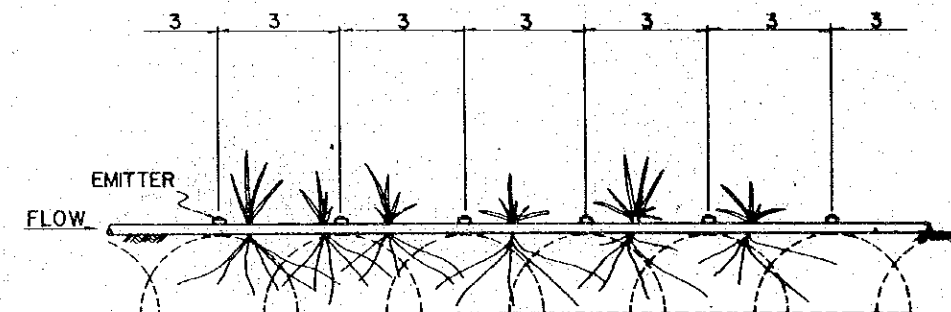
PLAN OF IRRIGATION FACILITIES



SPRINKLER (PORTABLE)



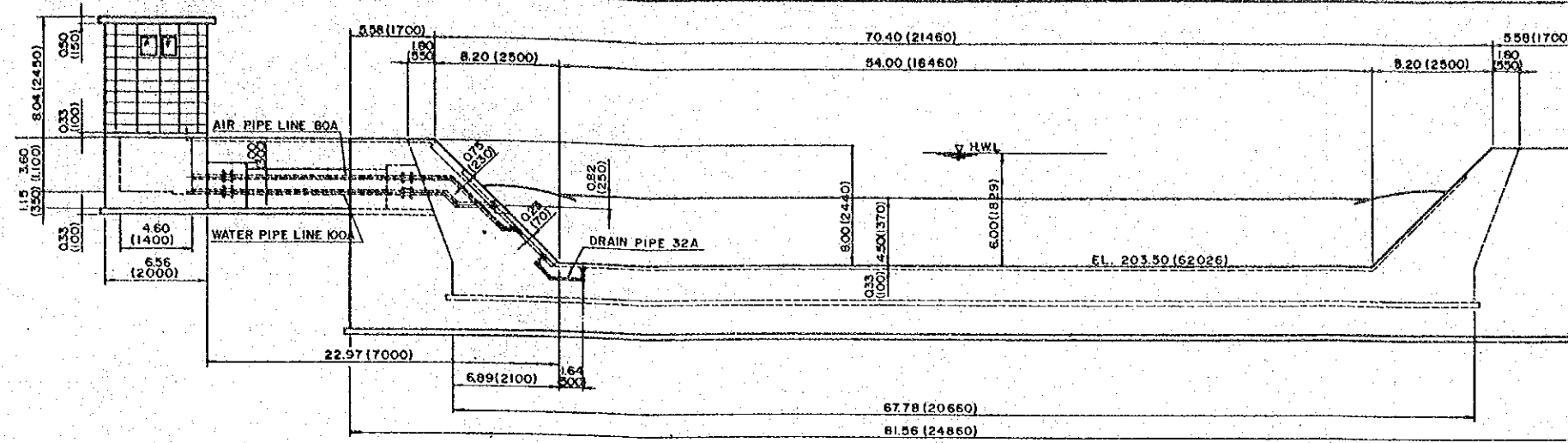
RAINGUN



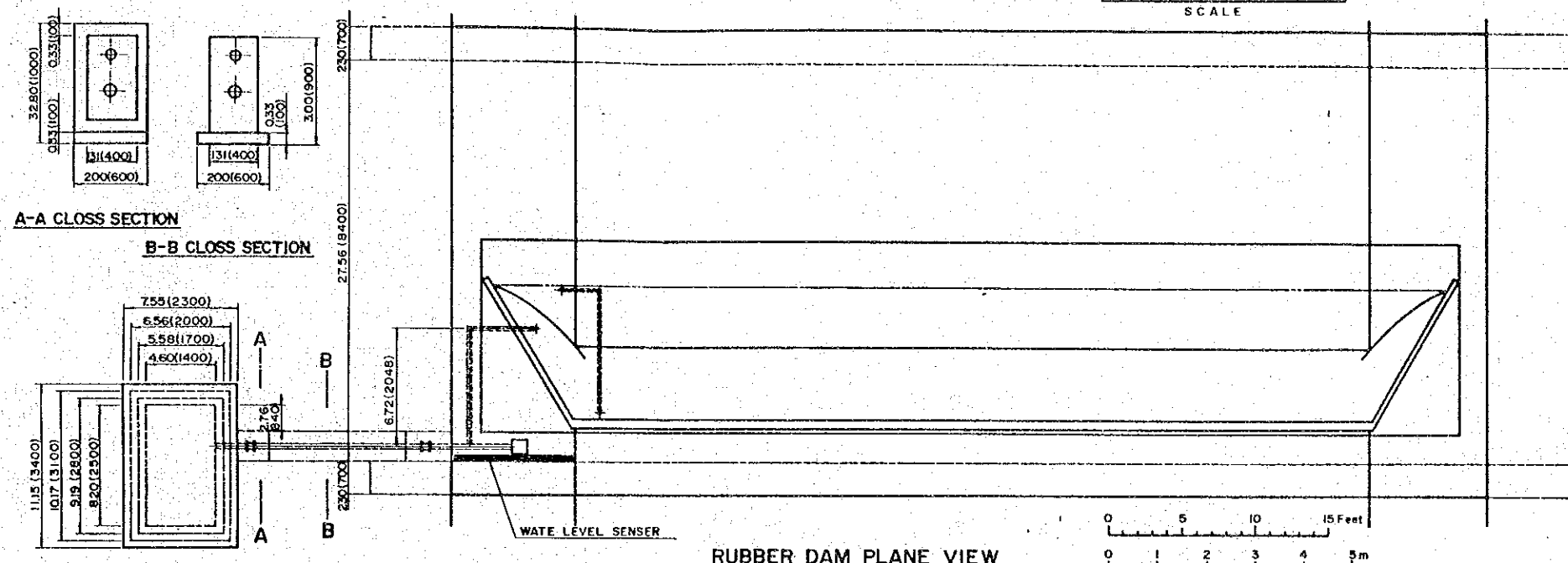
TRICKLE

NOTE ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SPECIFIED

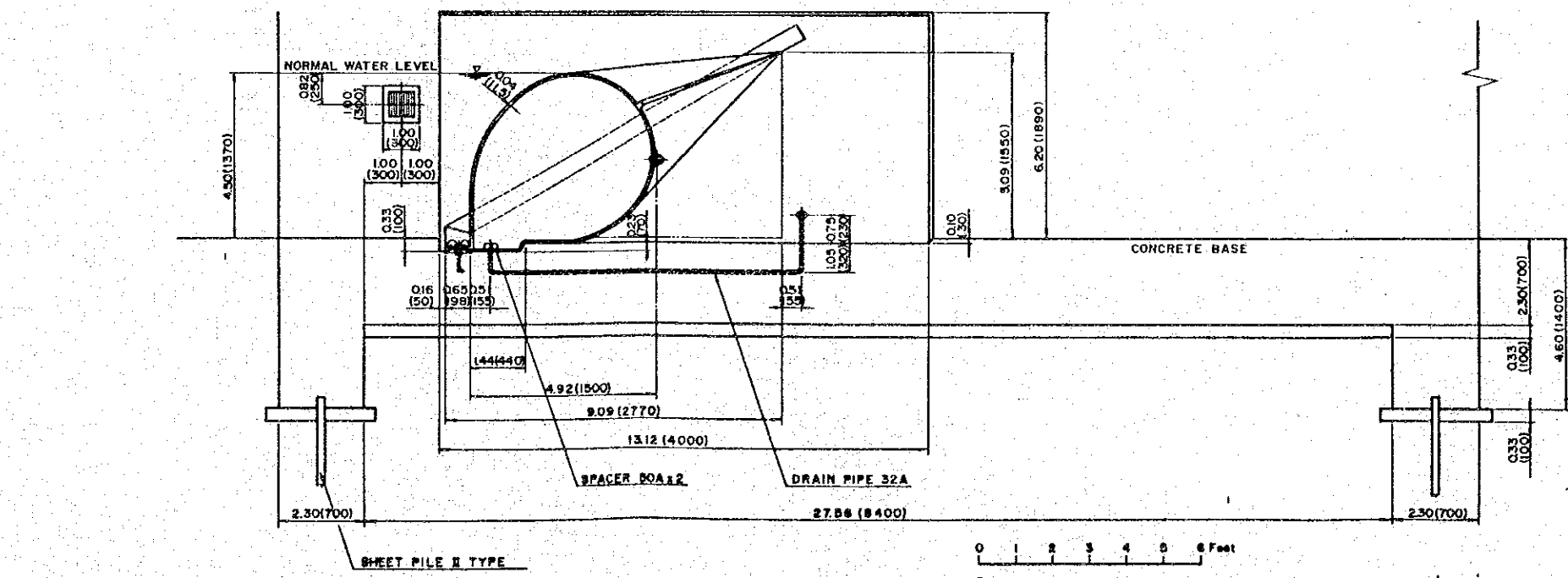
THE ISLAMIC REPUBLIC OF PAKISTAN AGRICULTURAL DEVELOPMENT PROJECT WITH WIDENING OF PAT FEEDER CANAL	
DEMONSTRATION OF IRRIGATION FACILITIES (2) OF PILOT PROJECT	DWG. NO. 021
JAPAN INTERNATIONAL COOPERATION AGENCY	



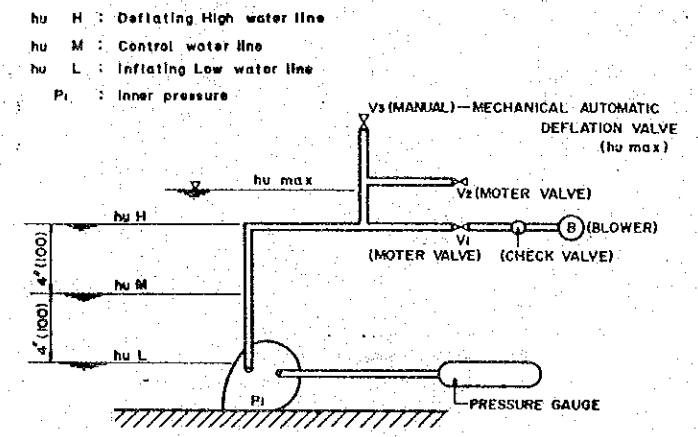
RUBBER DAM FRONT VIEW



RUBBER DAM PLANE VIEW



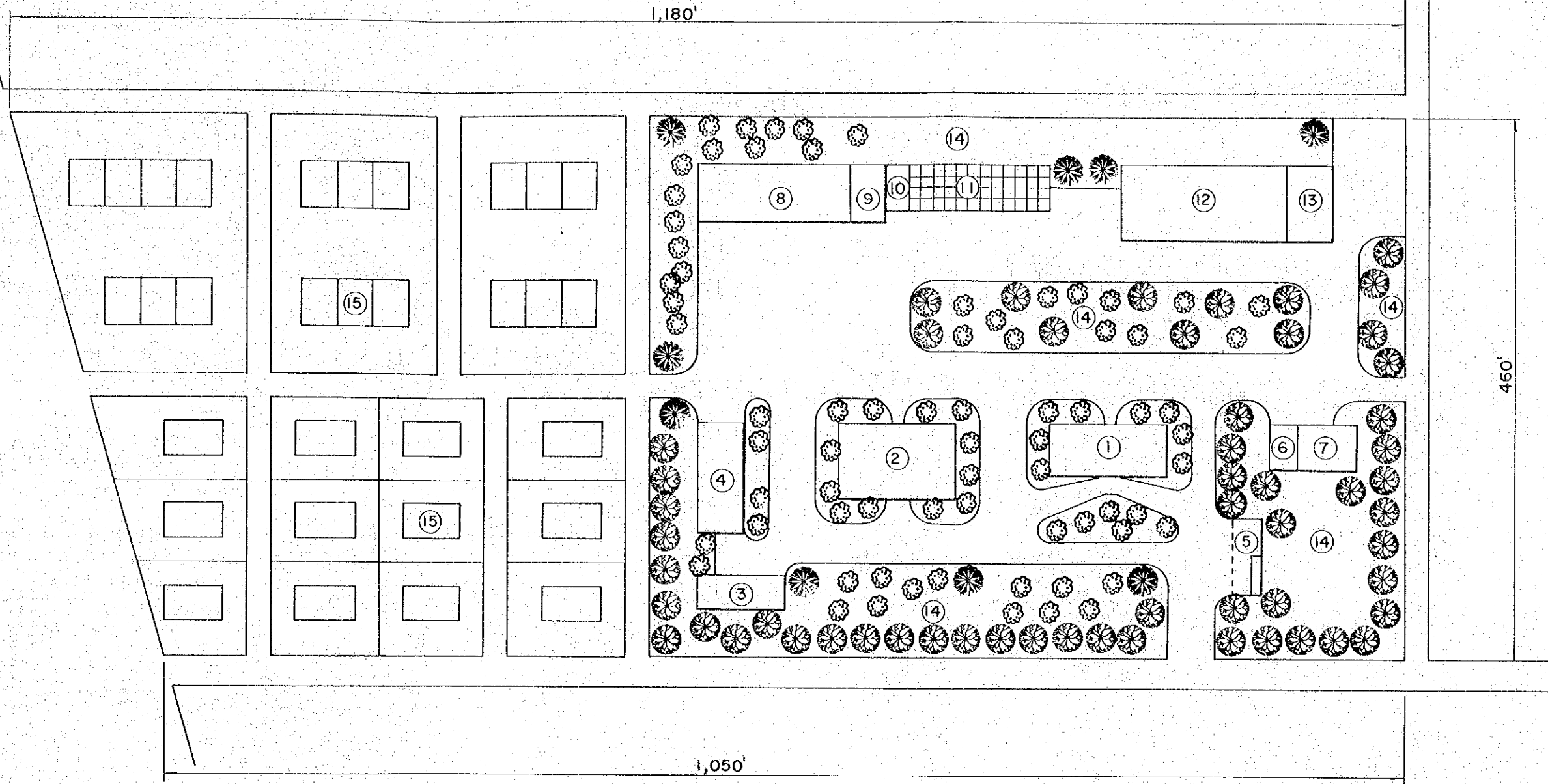
CROSS SECTION



CONTROL SYSTEM

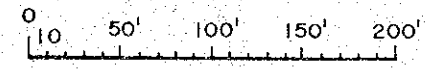
NOTE: ALL DIMENSIONS ARE IN FEET (MILLIMETERS) UNLESS OTHERWISE SPECIFIED
ALL ELEVATIONS EL ARE IN FEET (METERS)

THE ISLAMIC REPUBLIC OF PAKISTAN AGRICULTURAL DEVELOPMENT PROJECT WITH WIDENING OF PAT FEEDER CANAL	
CHECK STRUCTURE OF PILOT PROJECT	DWG. NO. 022
JAPAN INTERNATIONAL COOPERATION AGENCY	

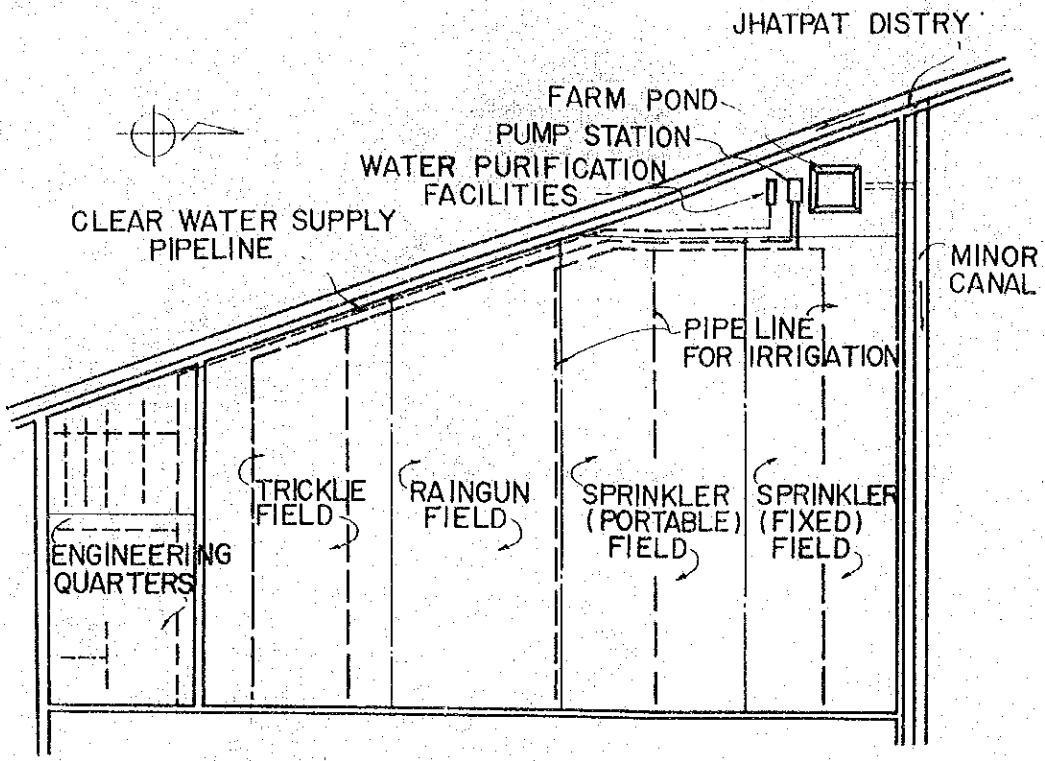


LEGEND

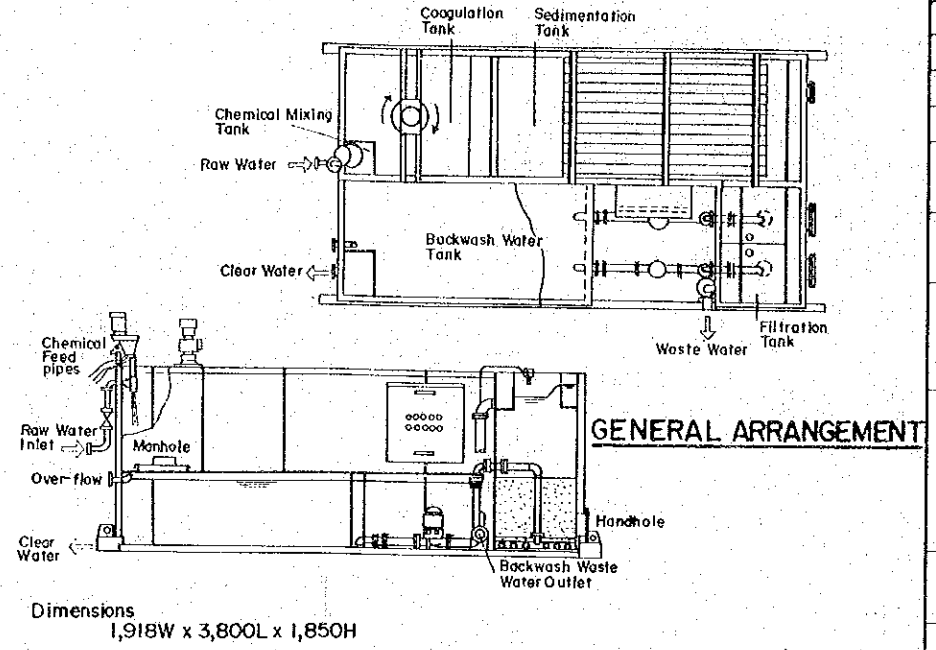
- | | |
|-----------------------------------|---------------------------|
| 1. MAIN OFFICE | 9. WORK SHOP |
| 2. RESERCHERS OFFICE & LABORATORY | 10. FUEL STATION |
| 3. TRAINING CENTER | 11. PARKING SPACE |
| 4. REST HOUSE | 12. WARE HOUSE (SEED) |
| 5. GARAGE | 13. SEED PROCESSING PLANT |
| 6. WARE HOUSE (AGRO - CHEMICAL) | 14. GREEN |
| 7. WARE HOUSE (FERTILIZER) | 15. STAFF QUARTERS |
| 8. WARE HOUSE (AGRO - MACHINE) | |



THE ISLAMIC REPUBLIC OF PAKISTAN AGRICULTURAL DEVELOPMENT PROJECT WITH WIDENING OF PAT FEEDER CANAL	
LAYOUT OF ENGINEERS QUARTERS OF PILOT PROJECT	DWG. NO. 023
JAPAN INTERNATIONAL COOPERATION AGENCY	



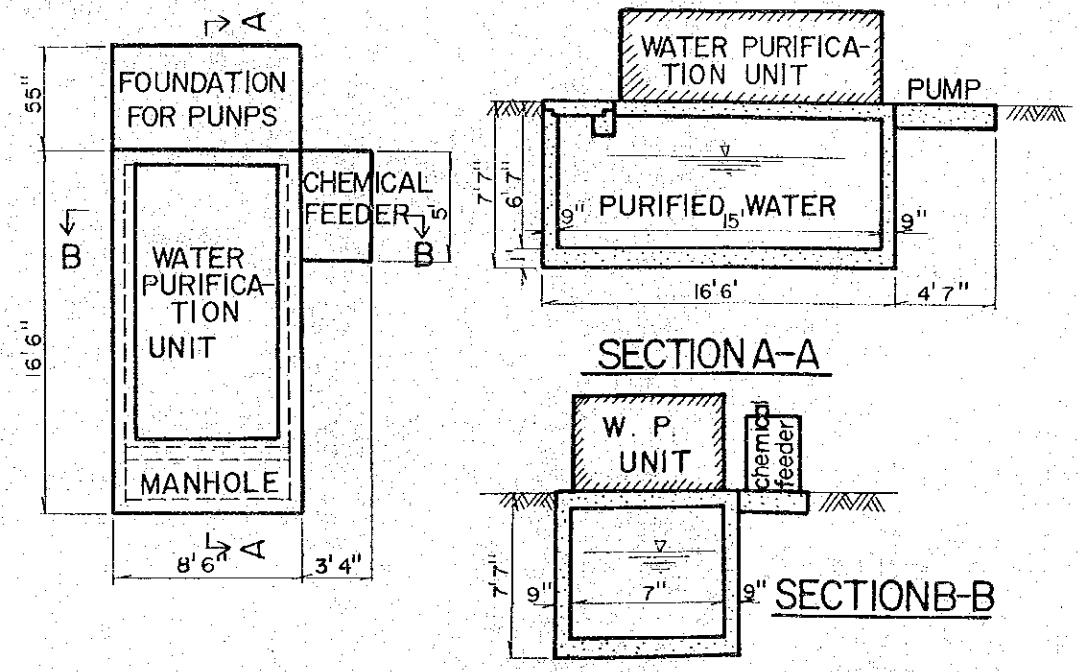
GENERAL PLAN s : 2 in = 1 mile



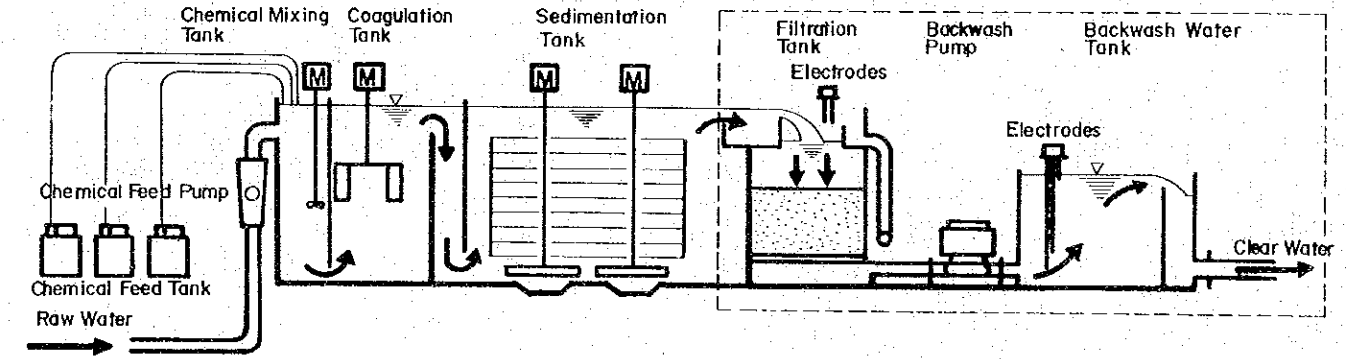
WATER PURIFICATION UNIT

Specification

Items		
Capacity		50 m ³ /d
Approximate Weight		2t
Operation weight		9.5t
Chemical mixing tank	Retention time	30min
	Power	0.1kW
Coagulation tank	Retention time	36min
	Power	0.2kW
Sedimentation tank	Retention time in inclined parallel plate	63min
	Scraper	-
	Backwash pump	Line pump 150 l/min x 5m x 0.25 kW
Filtration tank	Filtration rate	Gravity type x 2 sets 93m ³ /d
	Washing system	Fully automatic
	Chemical feed	Pump power 30W x 3 sets Tank capacity 50l x 3 sets
Generator capacity including for pumps of Raw & Clean water		5 KVA



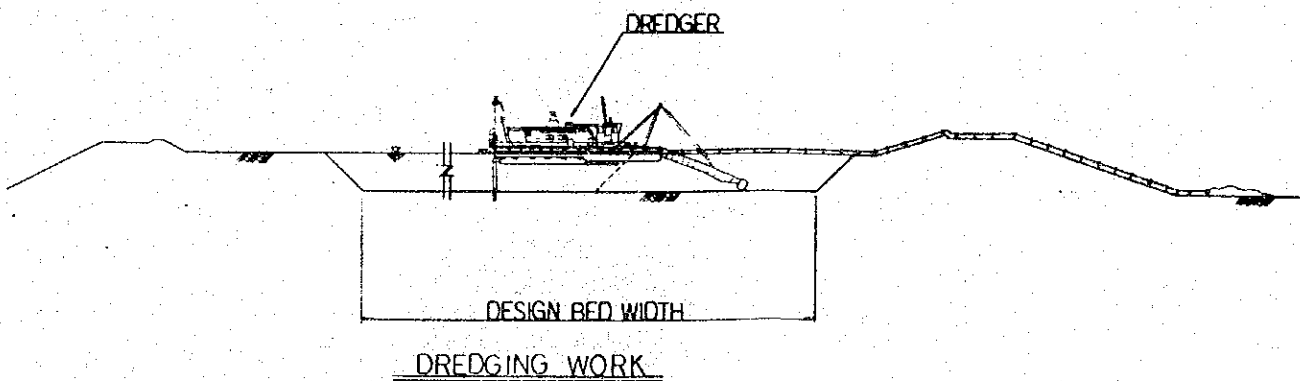
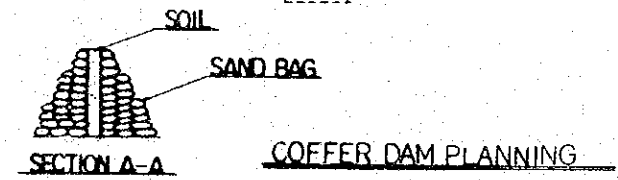
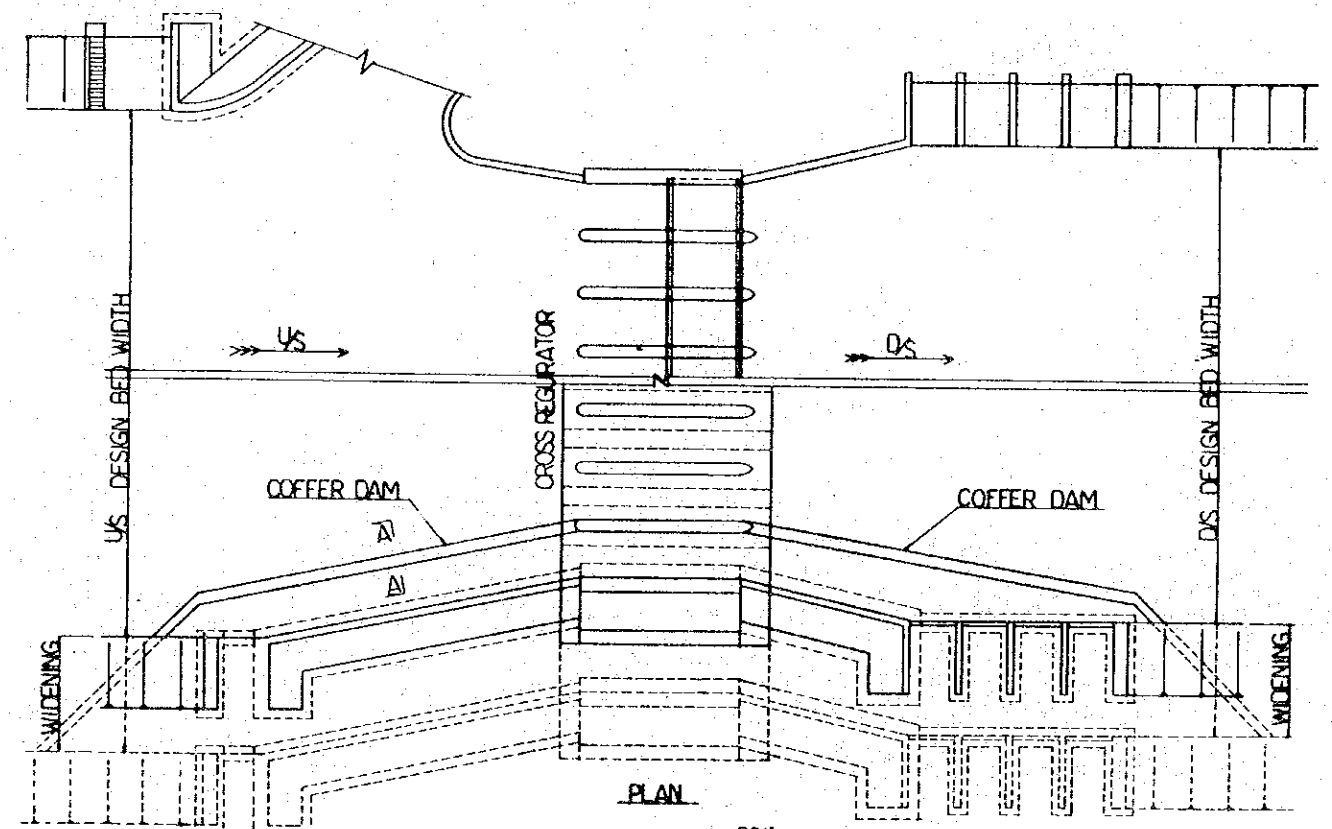
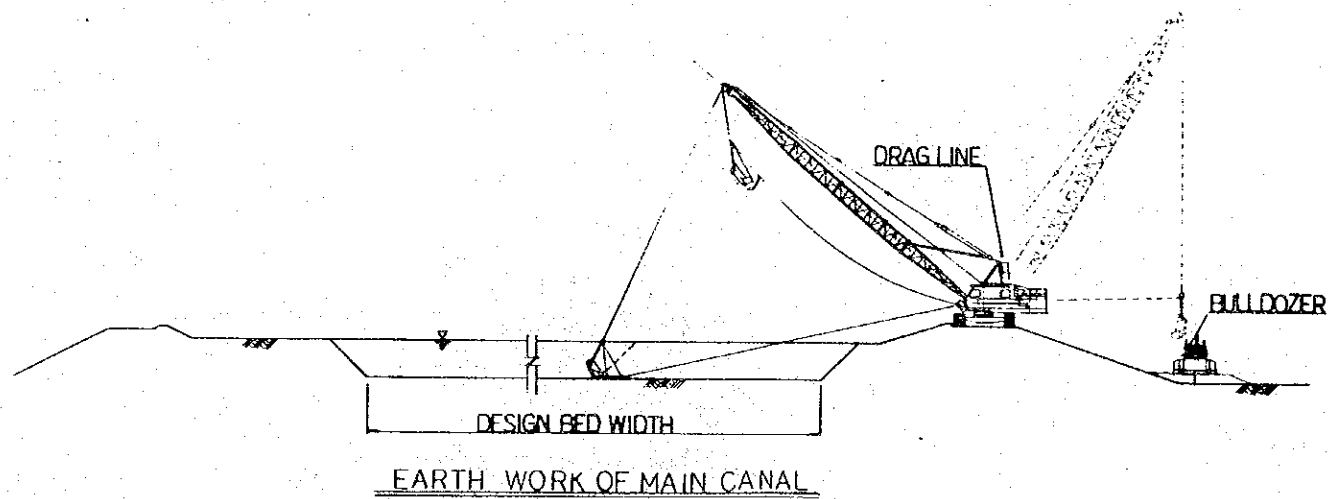
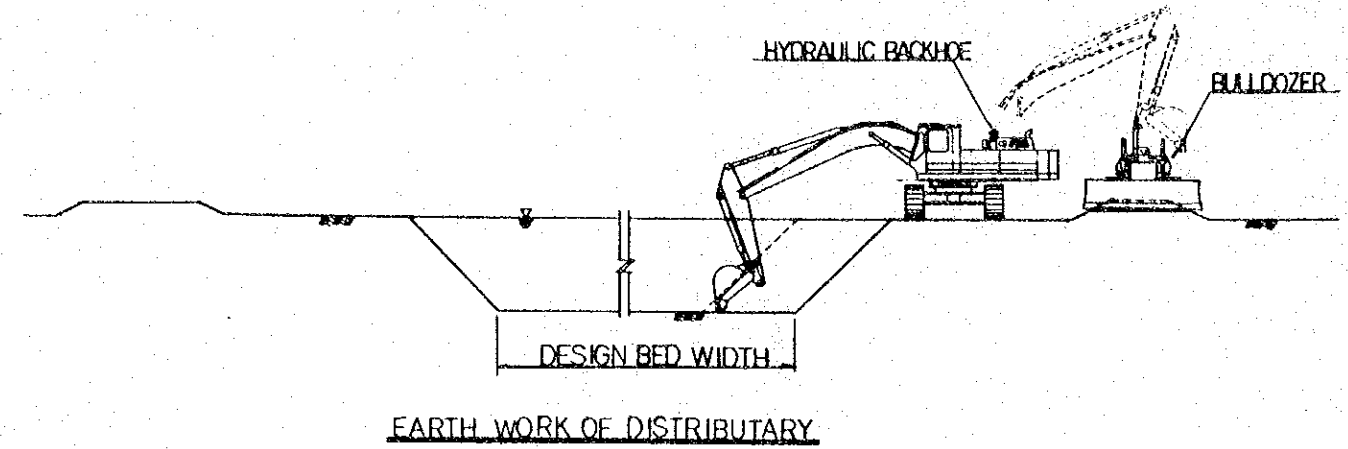
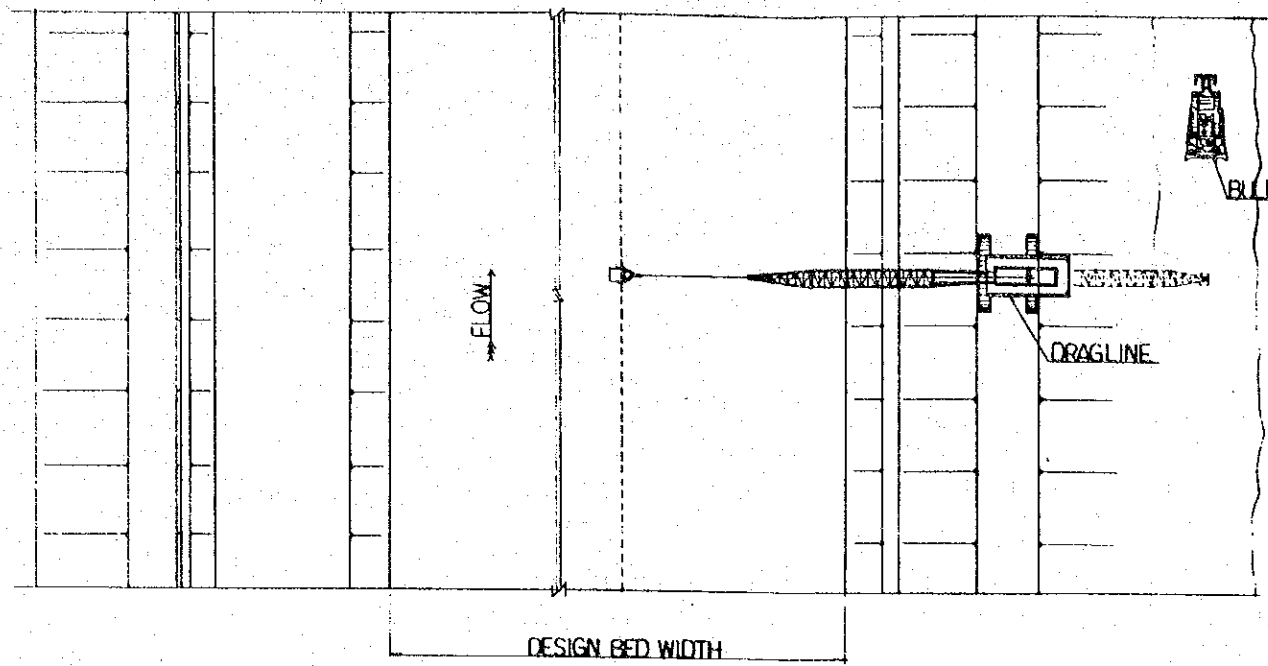
WATER PURIFICATION FACILITIES



DIMENSION OF PUMPS

RAW WATER PUMP	
TYPE	Horizontal-shaft Single Suction Volute Pump
	FS4H5.4
BORE	1 1/4 (40 x 30mm)
MOTOR	0.4 Kw (220V 50 H2)
CLEAR WATER PUMP	
TYPE	Vertical-shaft Multistage Volute Pump
	40UYRMS452.2
BORE	1 5/8 (40mm)
MOTOR	2.2 KW (220V 50H2)

THE ISLAMIC REPUBLIC OF PAKISTAN AGRICULTURAL DEVELOPMENT PROJECT WITH WIDENING OF PAT FEEDER CANAL	
WATER PURIFICATION FACILITIES OF PILOT PROJECT	DWG. NO. 024
JAPAN INTERNATIONAL COOPERATION AGENCY	



THE ISLAMIC REPUBLIC OF PAKISTAN AGRICULTURAL DEVELOPMENT PROJECT WITH WIDENING OF PAT FEEDER CANAL	
CONSTRUCTION PLANNING	DWG. NO. 025
JAPAN INTERNATIONAL COOPERATION AGENCY	

JICA