

ROOM NAME	TYPE	SIZE	AIR FLOW	QTY	CHAMBER SIZE
MEZZANINE FLOOR					
FUEL LABORATORY	REGISTER VHS	750 x 150	1100 CMH	2	
	OA GRILLE		1800 CMH	1	
WATER ANALITICAL INSTRUMENT ROOM	REGISTER VHS	750 x 150	1100 CMH	3	
	RA GRILLE	500 x 2500	6290 CMH	1	
	OA GRILLE		1800 CMH	1	
BATTERY ROOM	REGISTER HS	600 x 200	1265 CMH	4	
	EA GRILLE	1000 x 1200	5060 CMH	1	
	OA GRILLE		5060 CMH	1	
UNIT 1 & 2 CONTROL EQUIPMENT ROOM	SA GRILLE	1200 x 400	14600 CMH	5	
	RA GRILLE	900 x 2600	14600 CMH	1	
CABLE TREATMENT AREA					
	REGISTER VHS	1200 x 350	3020 CMH	5	
	OA GRILLE		15100 CMH	1	
	REGISTER HS	1200 x 350	3020 CMH	5	
	EA GRILLE		15100 CMH	1	
OPERATING FLOOR					
CENTRAL CONTROL ROOM	DIFFUSER C-2	# 30	1036 CMH	14	
	RA GRILLE	700 x 2000	6925 CMH	2	
COMPUTER ROOM UNIT 1	DIFFUSER C-2	# 30	947 CMH	13	
	RA GRILLE	700 x 2800	12300 CMH	1	
COMPUTER ROOM UNIT 2	DIFFUSER C-2	# 30	1050 CMH	8	

ROOM NAME	TYPE	SIZE	AIR FLOW	CHAMBER SIZE
	RA GRILLE	600 x 1850	8400 CMH	
4TH FLOOR				
PABX ROOM	DIFFUSER C-2	# 25	665 CMH	
	REGISTER HS	500 x 500	1230 CMH	
ELECTORICAL & INSTRUMENT REPAIR ROOM	DIFFUSER C-2	# 25	567 CMH	
	REGISTER HS	550 x 550	1550 CMH	
CONFERENCE ROOM	DIFFUSER C-2	# 20	463 CMH	
	REGISTER HS	550 x 550	1450 CMH	
REST ROOM	DIFFUSER C-2	# 20	450 CMH	
SHIFT ROOM	REGISTER HS	300 x 300	400 CMH	
TURBINE ROOM	REGISTER HS	500 x 500	1320 CMH	
	OA GRILLE		2370 CMH	
	EA GRILLE		15500 CMH	

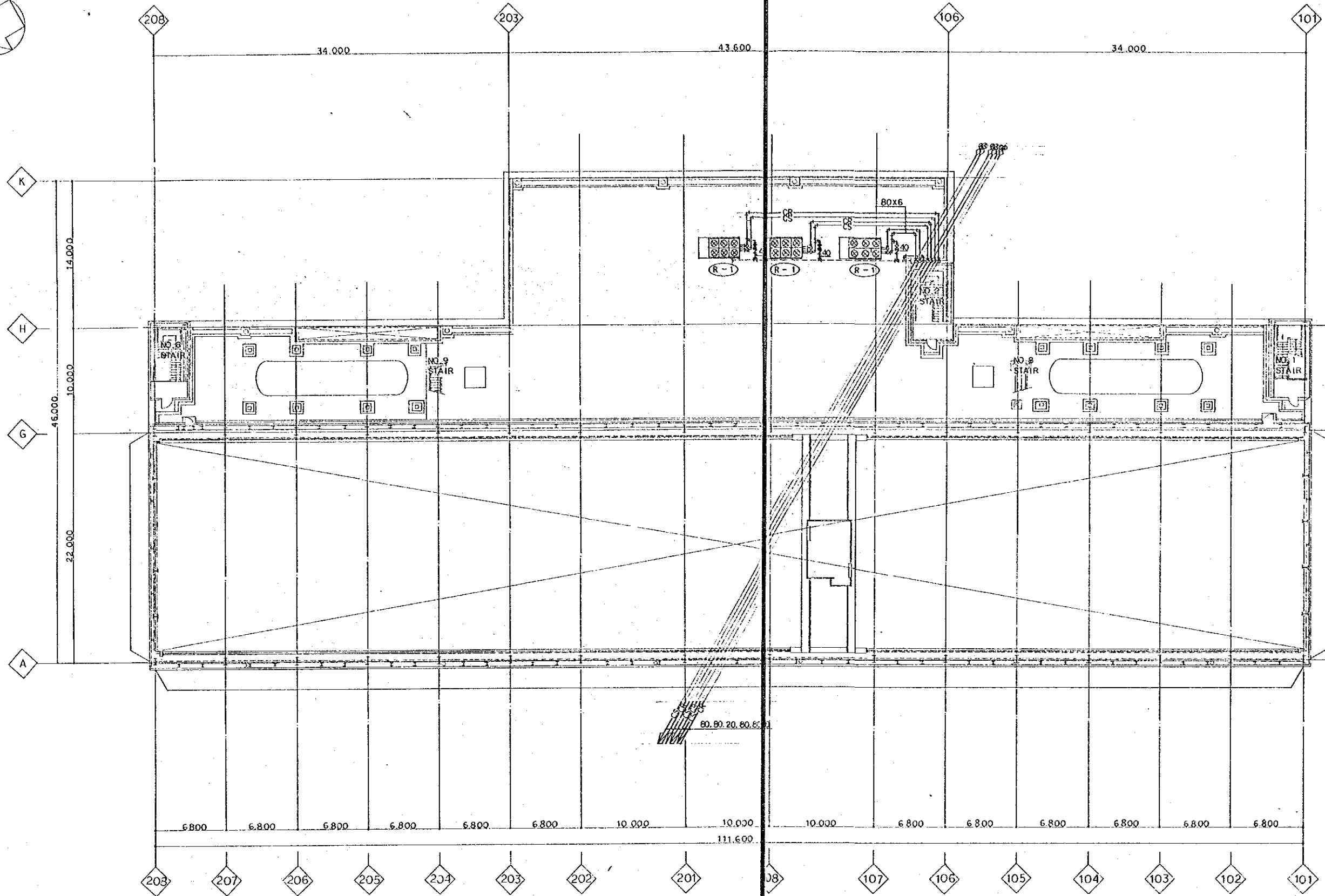
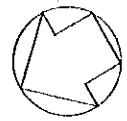
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KARACHI ELECTRIC SUPPLY CORPORATION

WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2

MAIN POWER HOUSE
A/C AND VENTILATION MEZZANINE, CABLE TREATMENT,
OPERATING, FOURTH FLOOR PLAN

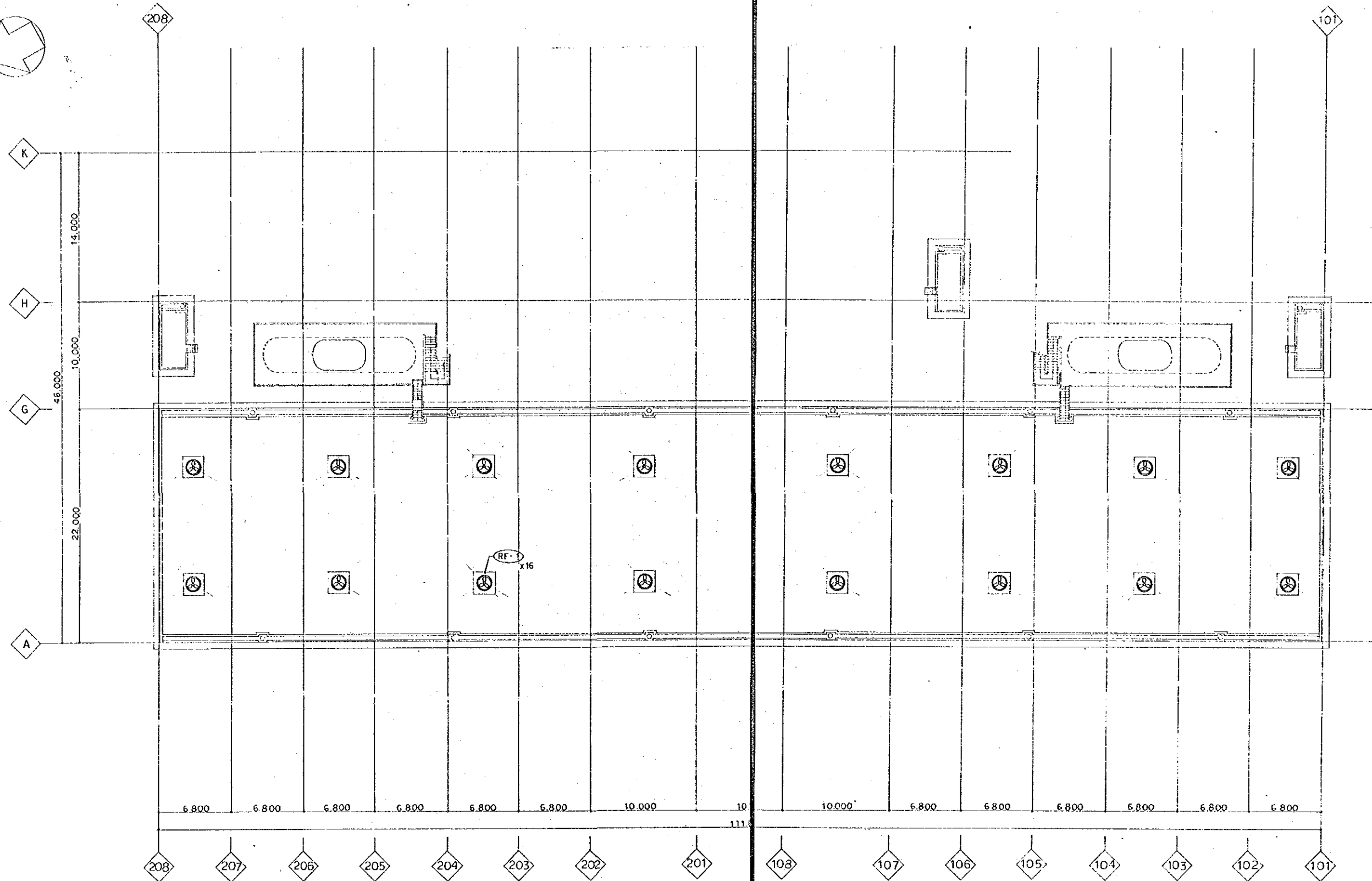
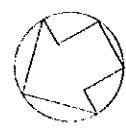
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

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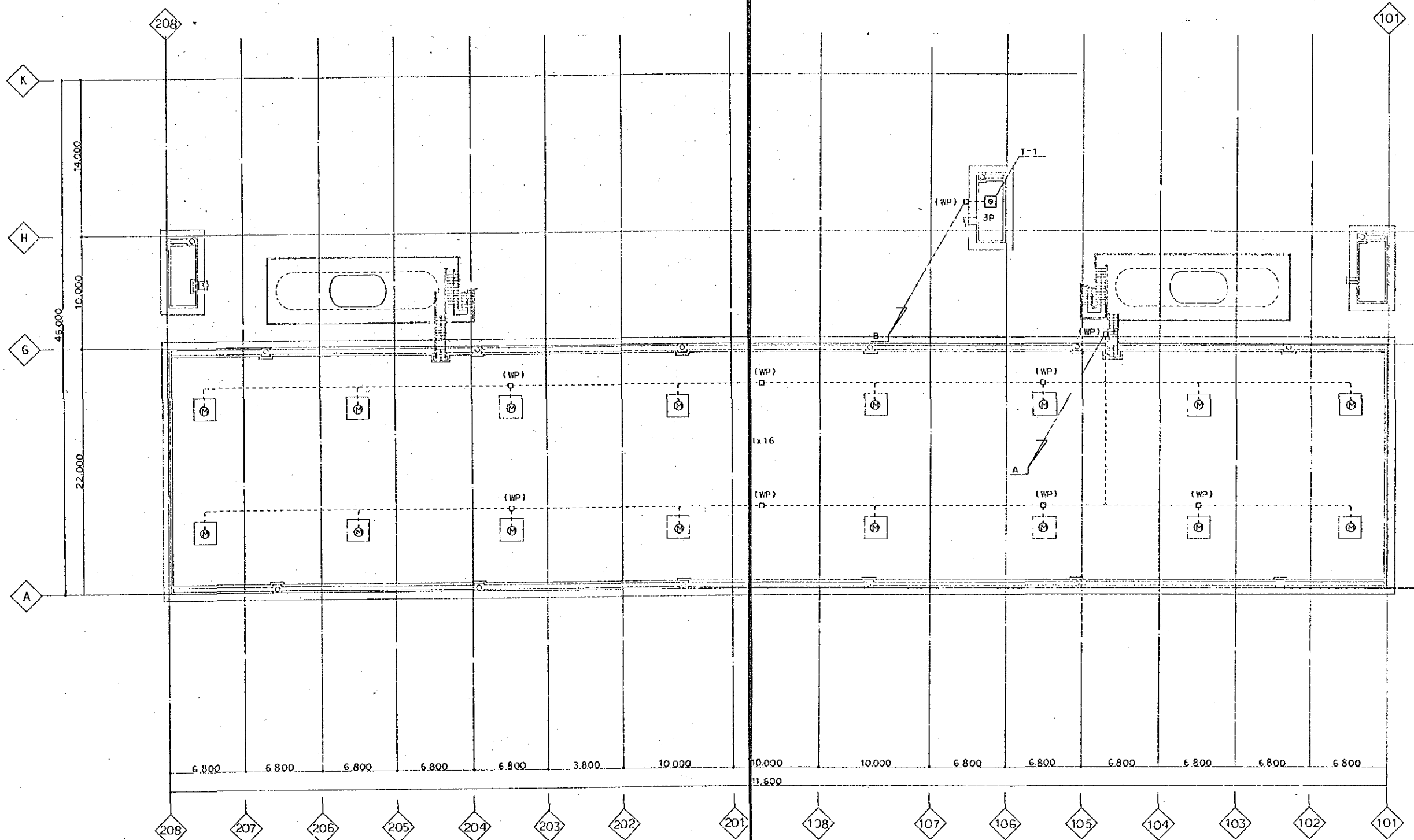
CRANE LEVEL AND LOW ROOF PLAN (scale 1:200)

PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
MAIN POWER HOUSE			
A/C AND VENTILATION			
CRANE LEVEL AND LOW ROOF PLAN			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
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DRAWING NO. WAT-1310		SCALE 1:200	DATE DEC 1989



HIGH ROOF PLAN (scale 1:20)

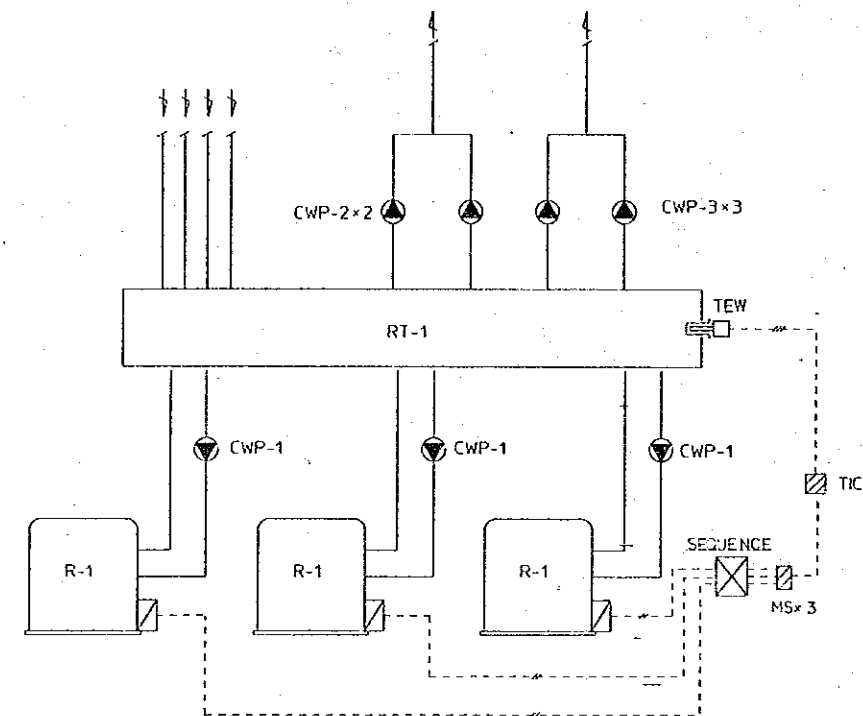
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
MAIN POWER HOUSE A/C AND VENTILATION HIGH ROOF PLAN			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
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DRAWING NO. WAT-1311		SCALE 1:200	DATE DEC 1983



-B-	(1V5.5°	x	3	F2°	(22)	1x8	RF-1x8
(1V5.5°	x	3	F2°	(22)	1x8	RF-1x8	
-B-	(1V2°	x	3	(16)	3P		

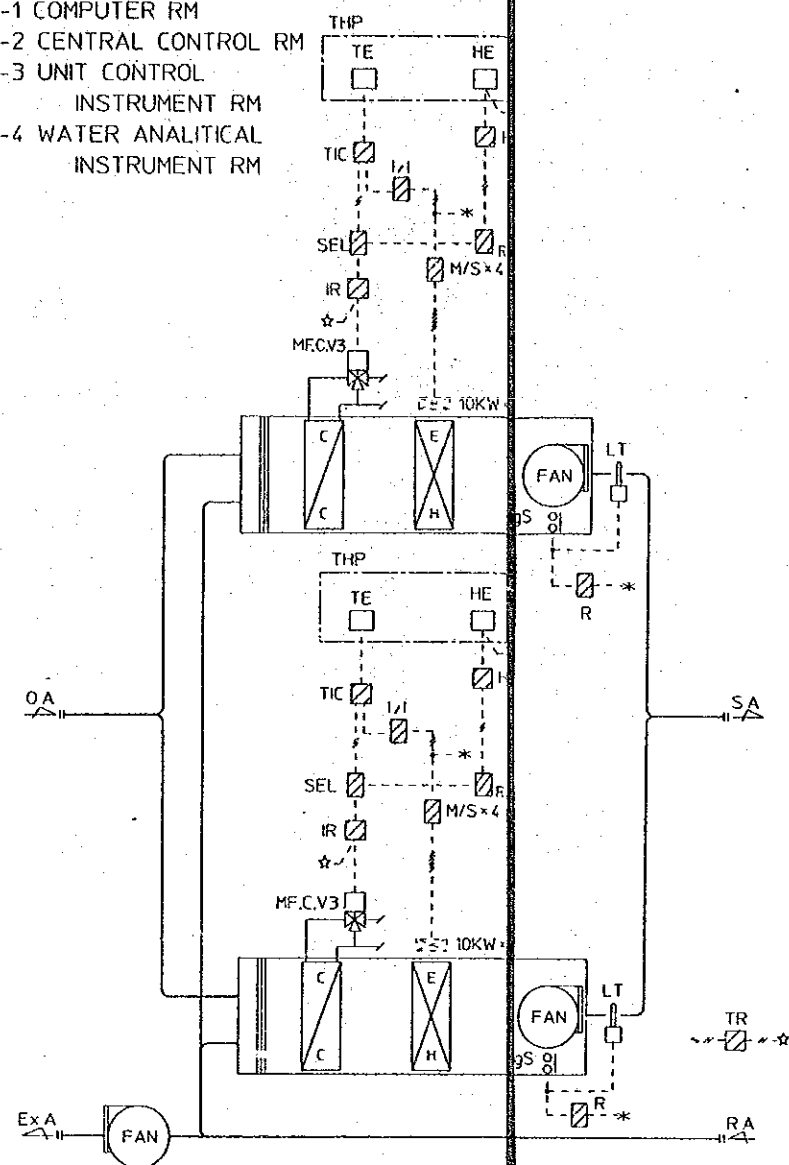
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
MAIN POWER HOUSE			
A/C AND VENTILATION			
AUTOMATIC CONTROL & SECONDARY WIRING			
HIGH ROOF PLAN			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
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DRAWING NO.	SCALE	DATE	
WAT-1315	1:200	DEC 1989	

1 R-1 3sets



2 AHU-1-4 4sets

AHU-1 COMPUTER RM
 AHU-2 CENTRAL CONTROL RM
 AHU-3 UNIT CONTROL INSTRUMENT RM
 AHU-4 WATER ANALYTICAL INSTRUMENT RM



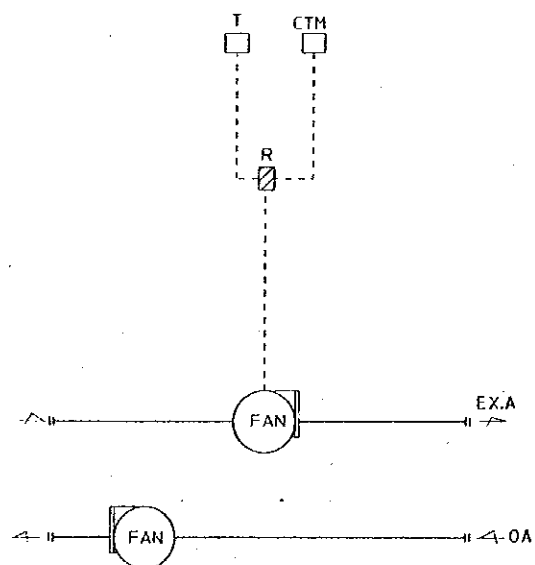
AUTOMATIC CONTROL EQUIPMENT TABLE

SYMBOL	DESCRIPTION	MODEL	NOTES
C	VALVE LINKAGE	0455C	
VI	SIGNAL ISOLATOR	RY7800S	
IR	PROPORTIONING RELAY	RN796A	
LF	LEVEL CONTROLLER		
LT	LIMIT CONTROLLER	L4029E	
MF	MODUTROL MOTOR	M904F	
MS	MONITOR SWITCH	RY7803M	
R	RELAY		
R/B	RATIO & BIAS RELAY	RY7800B	
SEL	SIGNAL SELECTOR	RY7800H	
TEW	INSERTION TEMP.SENSOR	TY7701B	W/WELL
TIC	TEMPERATURE INDICATING CONTROLLER	R7375D	
CTM	CALENDER TIMER		
TR	TRANSFORMER	A172-J1	
V3	3-WAY MIXING VALVE	V5065A	
T	THERMOSTAT	I63IC	
TE	ROOM TEMPERATURE	T7090C	
HE	HUMIDITY SENSOR	HY7012A	
HIC	HUMIDITY INDICATING CONTROLLER	R7375C	

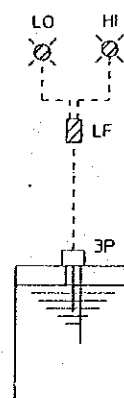
CONTROL VALVE SIZING TABLE

RELATED MACH/EQUIP'S	FLUID	FLOW RATE	P _i	ΔP	CV	SIZE	NOTES
AHU-1 C/C	W3	220 l/h		0.3 W/yr	28	50	
AHU-2 C/C	W3	157 l/h		0.3 W/yr	20	40	
AHU-3 C/C	W3	77 l/h		0.3 W/yr	0.8	25	
AHU-4 C/C	W3	44 l/h		0.3 W/yr	0.6	20	

3 EF-1 OF-1 1set



4 T-1 1set



EXPLANATORY NOTES

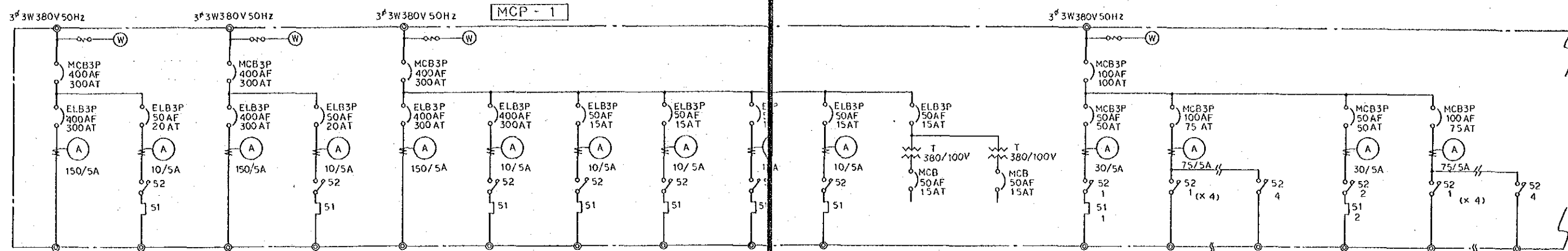
- 1V2°
- ~ AC100V or 200V
- ⊘ FAN INTERLOCK
- ⊠ ON REMOTE PANEL

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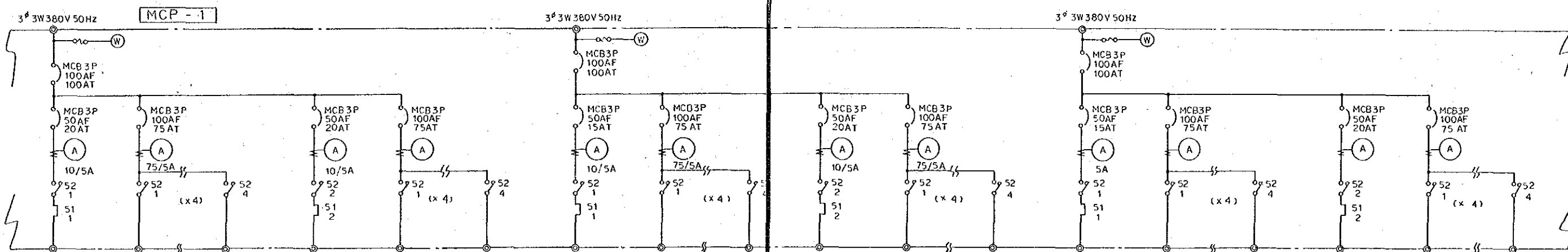
WEST WHARF THERMAL POWER PLANT PROJECT
 UNITS NO.1 AND NO.2
 MAIN POWER HOUSE
 A/C AND VENTILATION
 AUTOMATIC CONTROL SYSTEM DIAGRAM

JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN

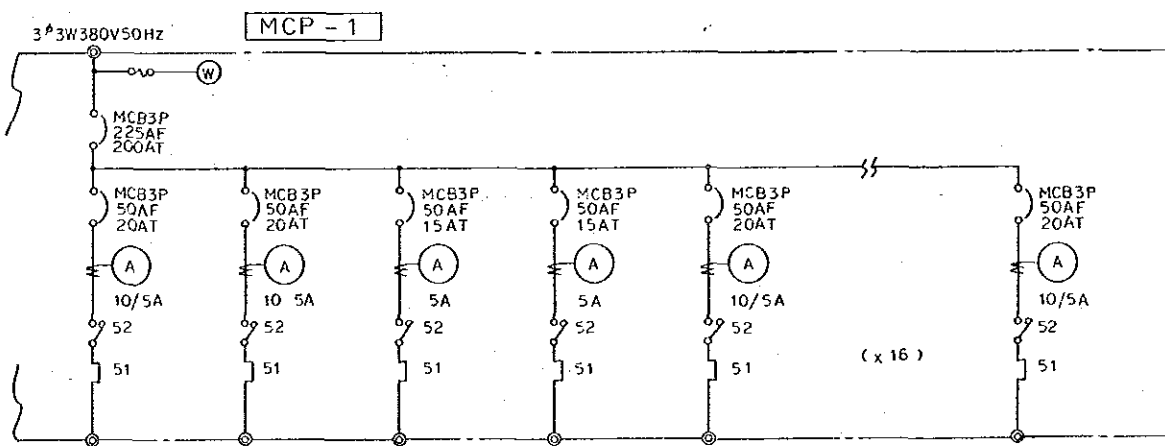
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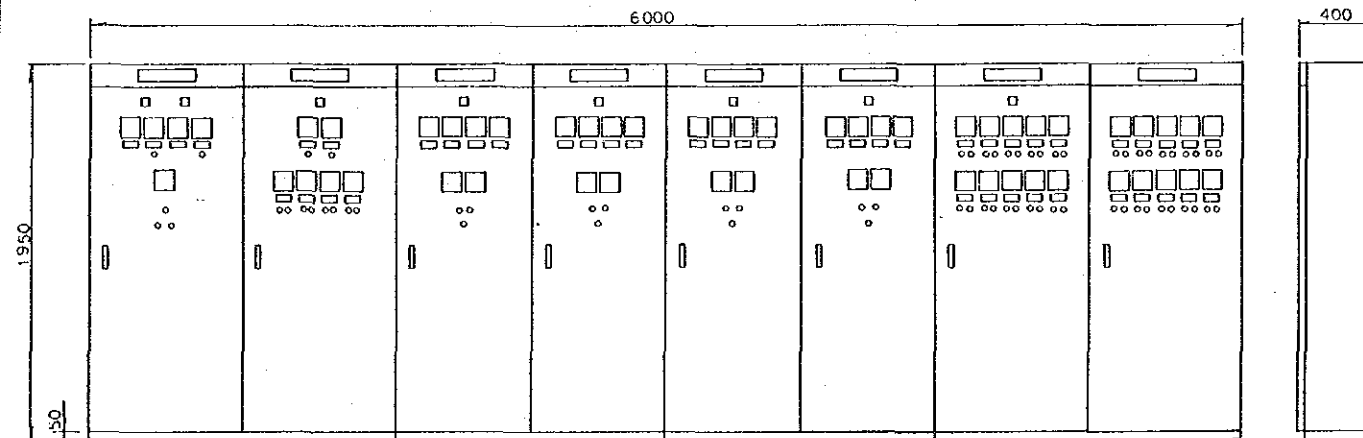
SYMBOL	R - 1	CWP - 1	R - 1	CWP - 1	R - 1	CWP - 1	CWP - 2	CWP - 2	CWP - 2	CWP - 3			AHU - 1	EH	AHU - 1	EH
CAPACITY(KW)	64.5	3.7	64.5	3.7	64.5	3.7	2.2	2.2	2.2	2.2			11	10 x 4	11	10 x 4
CIRCUIT DIAGRAM	A	B	A	B	A	B	C	C	C	C	G	I, J	DO DI D2 E (x2)			



SYMBOL	AHU - 2	EH	AHU - 2	EH	AHU - 3	EH	AHU - 3	EH	AHU - 4	EH	AHU - 4	EH
CAPACITY(KW)	3.7	10 x 4	3.7	10 x 4	2.2	10 x 4	2.2	10 x 4	1.5	10 x 4	1.5	10 x 4
CIRCUIT DIAGRAM	DO DI D2 E (x2)				DO DI D2 E (x2)				DO DI D2 E (x2)			



SYMBOL	EF - 1	OF - 1	EF - 2	EF - 3	RF - 1
CAPACITY(KW)	3.7	3.7	1.5	2.2	3.7 x 16
CIRCUIT DIAGRAM	F4	F2	F1	F1	F1 (x 16)



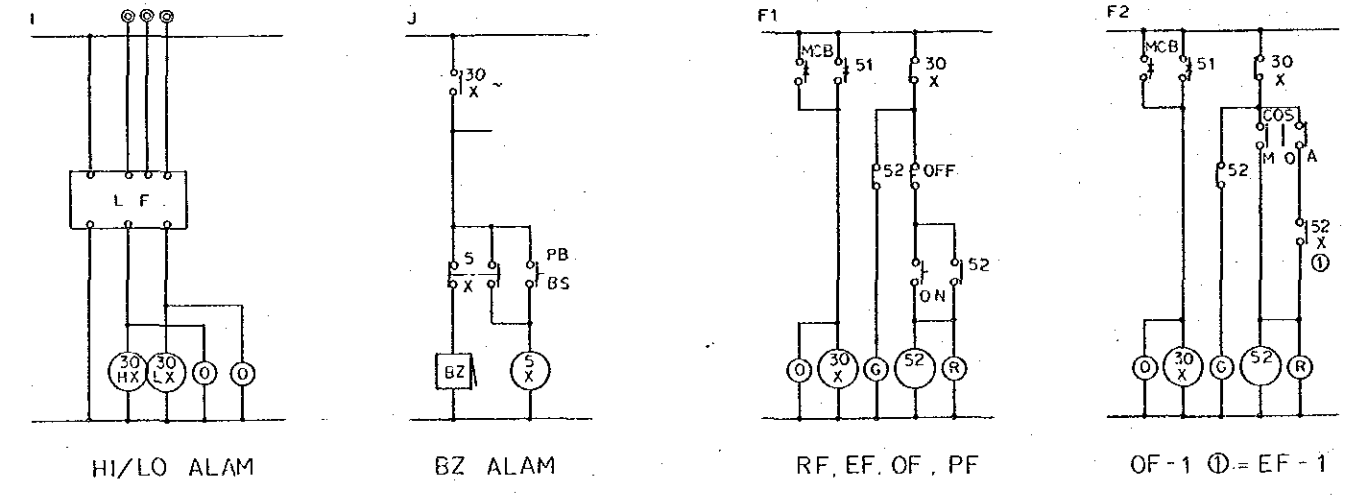
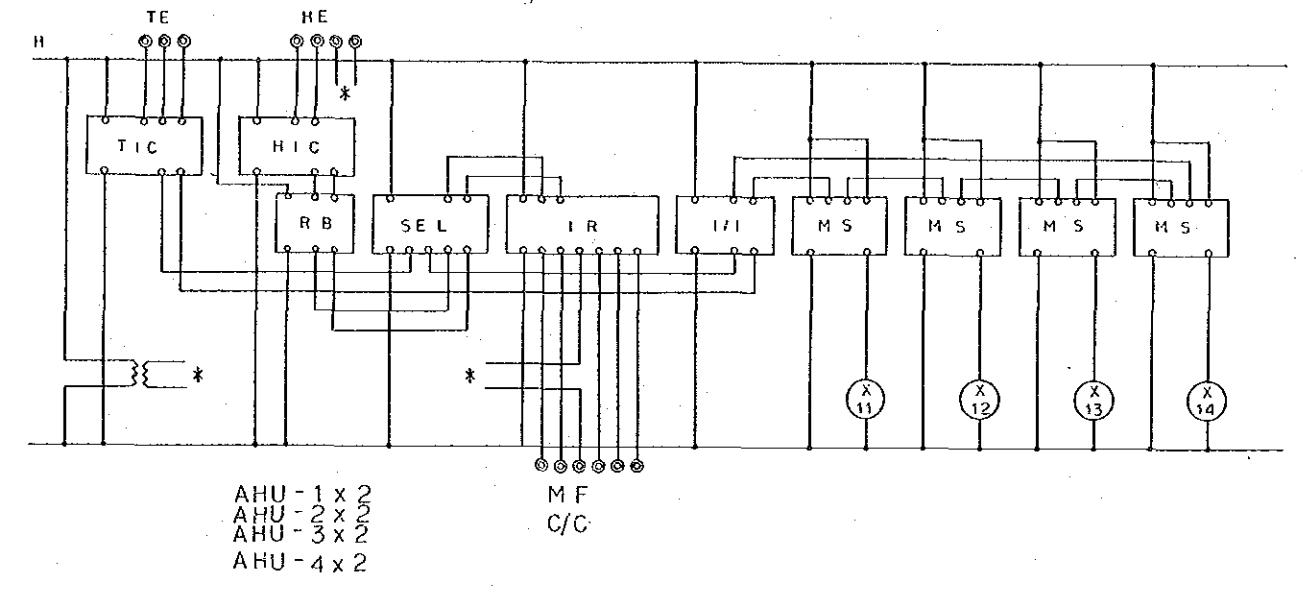
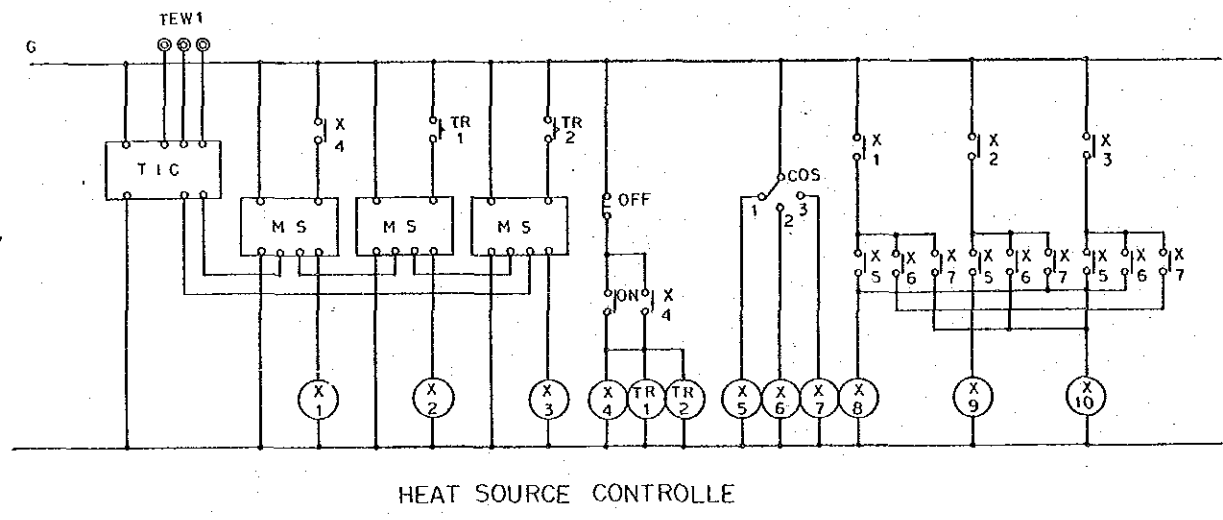
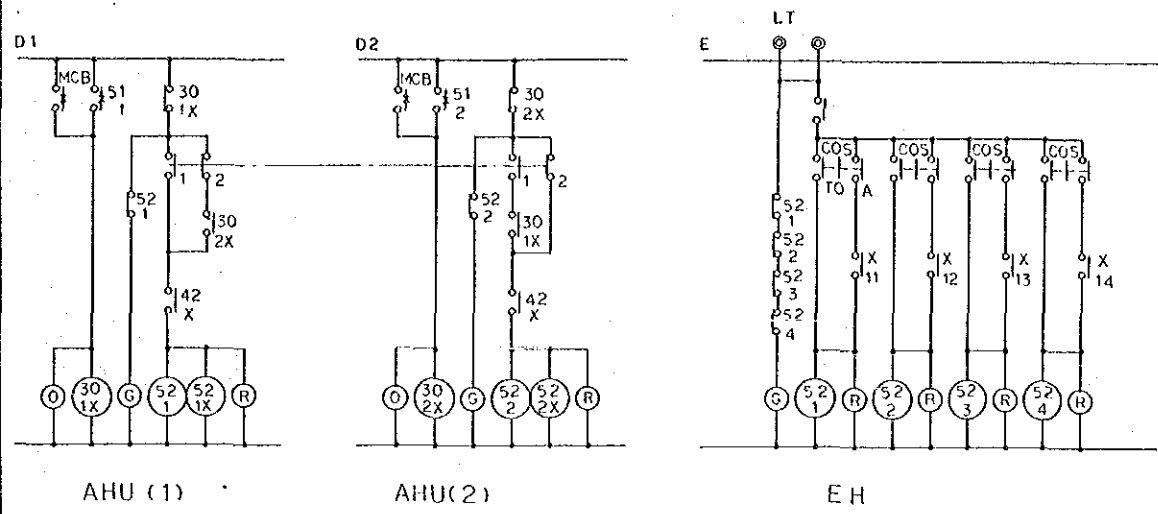
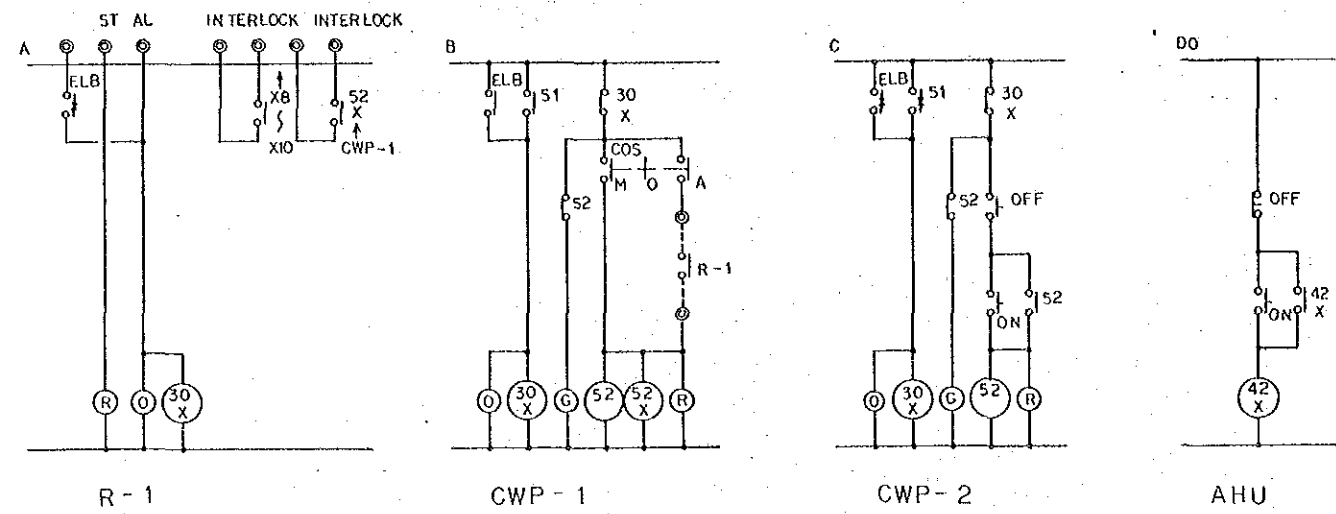
MCP - 1

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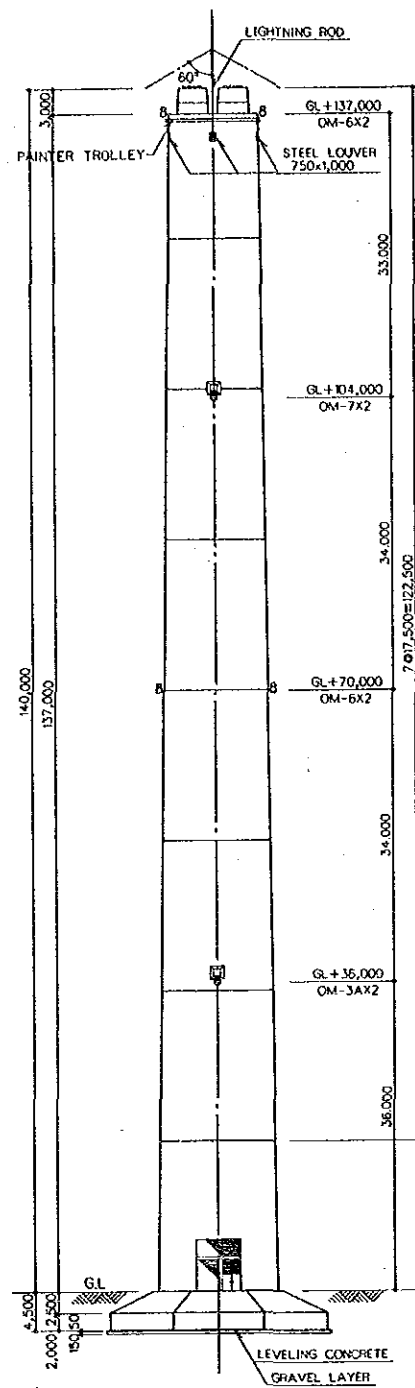
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
MAIN POWER HOUSE
A/C AND VENTILATION
SECONDARY WIRING DIAGRAM(1)

JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

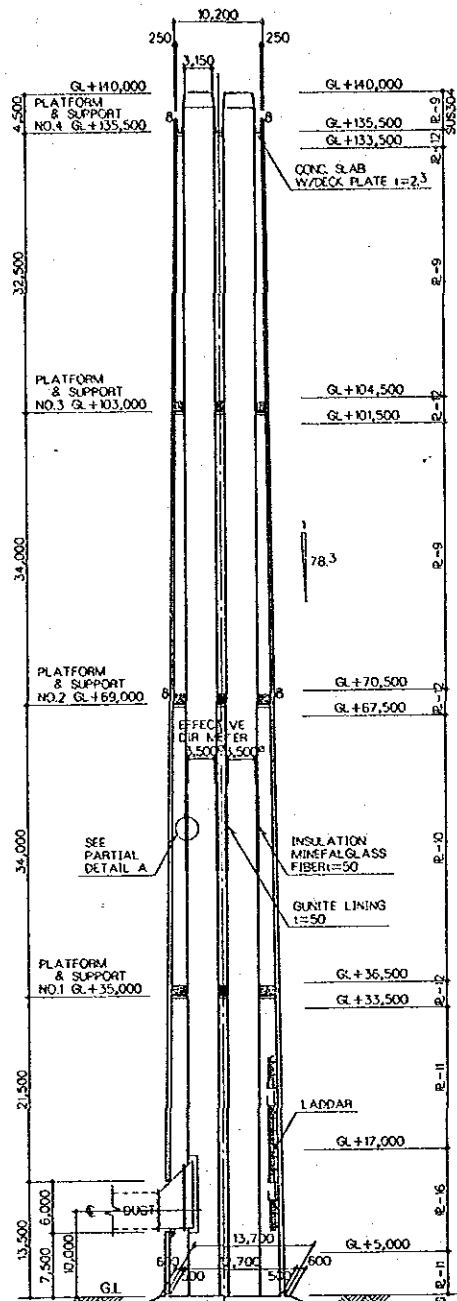
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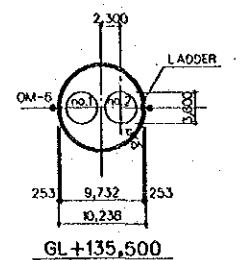
PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
MAIN POWER HOUSE			
A/C AND VENTILATION			
SECONDARY WIRING DIAGRAM(2)			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
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WAT-1318		SCALE not to scale	DATE DEC 1989



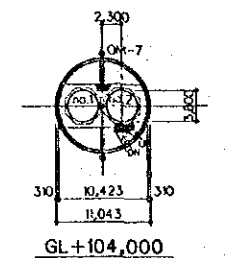
ELEVATION
SCALE 1/450



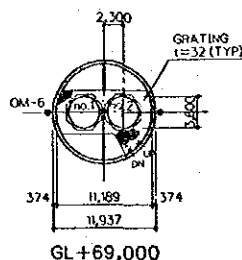
SECTION
SCALE 1/450



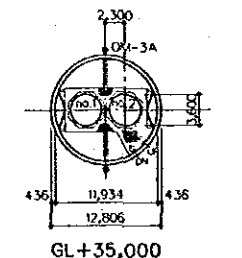
CROSS SECTION
SCALE 1/450



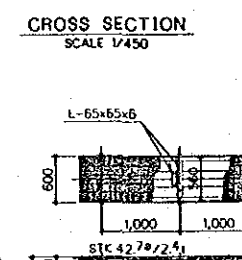
CROSS SECTION
SCALE 1/450



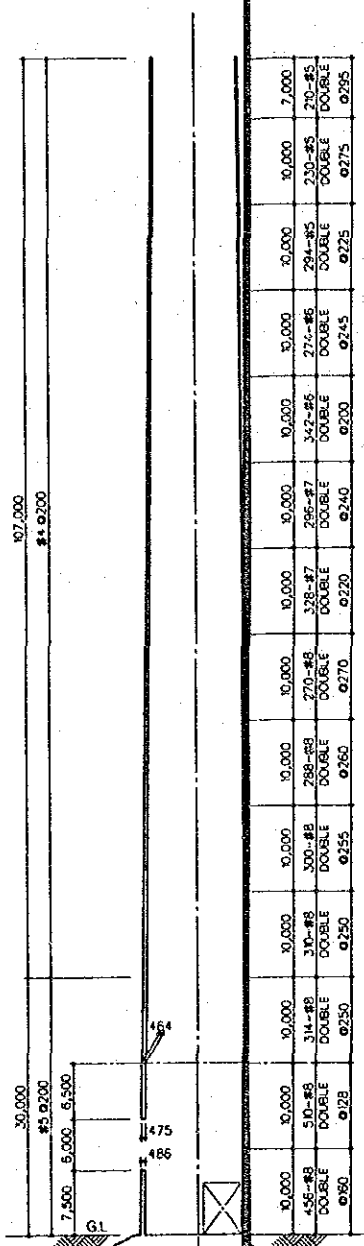
CROSS SECTION
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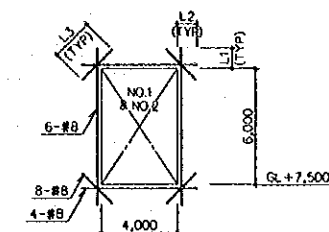
CROSS SECTION
SCALE 1/450



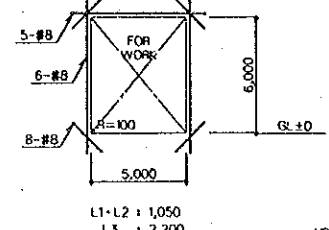
DETAIL OF PLATFORM
SCALE 1/50



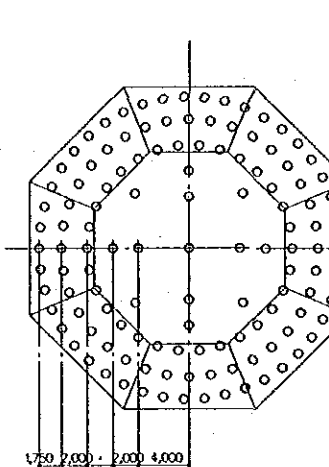
REINFORCEMENT SCHEDULE
SCALE 1/450



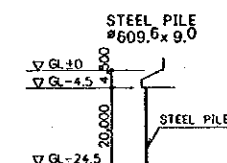
OPENING DETAIL
SCALE 1/200



OPENING DETAIL
SCALE 1/200



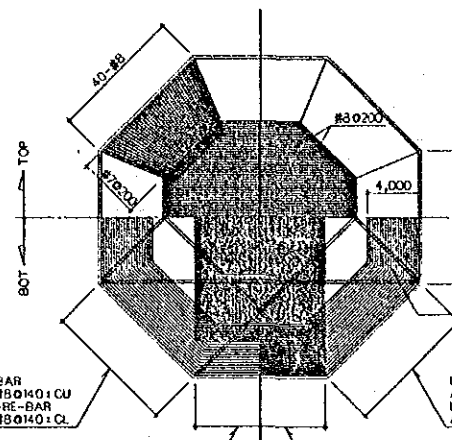
LAYOUT PLAN OF PILE
SCALE 1/300



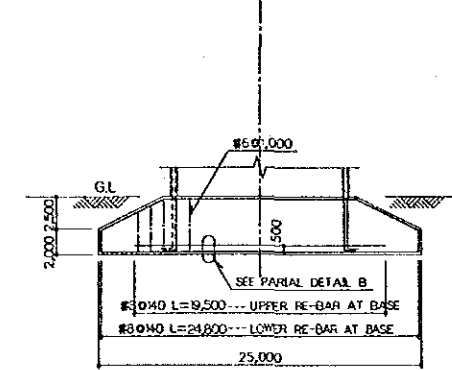
STEEL PILE
SCALE 1/50

PILE LAYOUT

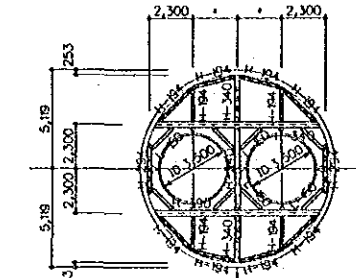
RADIUS (m)	NUMBER
11.75	45
10.0	36
8.0	30
6.0	8
4.0	4
0.0	1
TOTAL	124



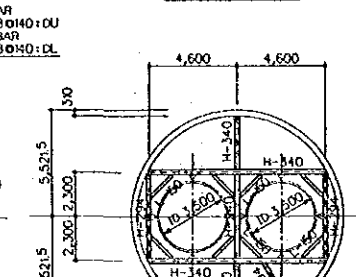
FOUNDATION REINFORCEMENT
SCALE 1/300



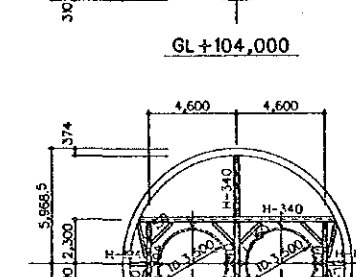
PARTIAL DETAIL B
SCALE 1/50



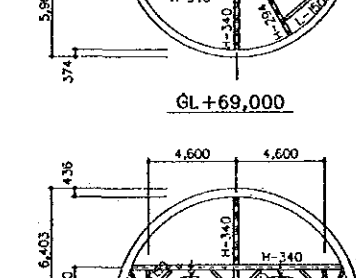
PLATFORM FRAMING PLAN
SCALE 1/200



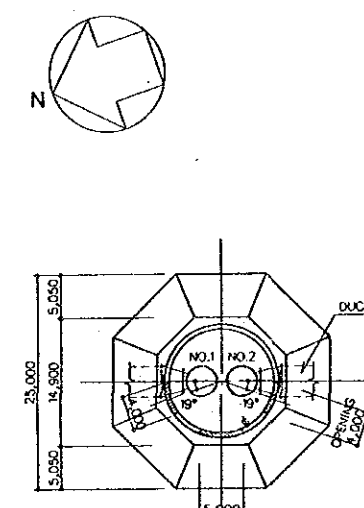
PLATFORM FRAMING PLAN
SCALE 1/200



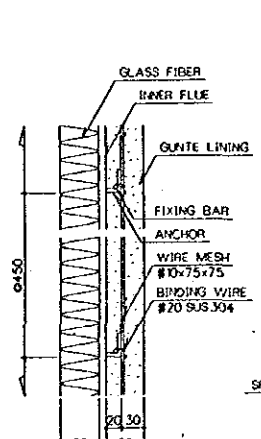
PLATFORM FRAMING PLAN
SCALE 1/200



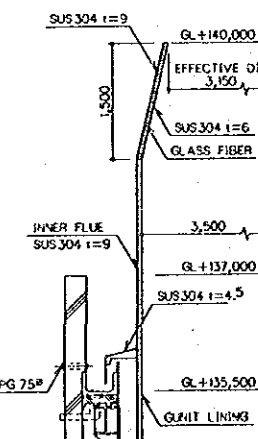
PLATFORM FRAMING PLAN
SCALE 1/200



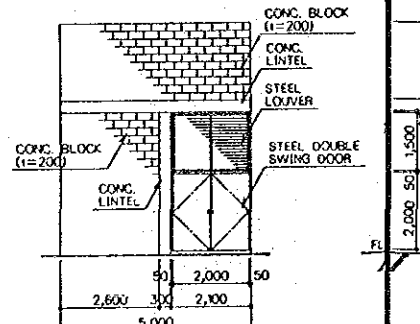
FOUNDATION
SCALE 1/450



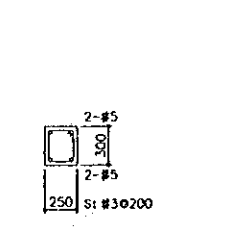
PARTIAL DETAIL A
SCALE 1/5



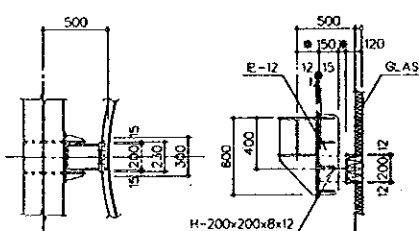
DETAIL FOR TOP OF STACK
SCALE 1/50



DETAIL OF COVERING OPENING FORK
SCALE 1/100



REINFORCEMENT OF CONC. LINTEL
SCALE 1/30

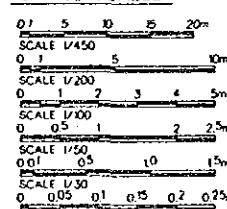


DETAIL OF FLUE SUPPORT AT STAGE
SCALE 1/30

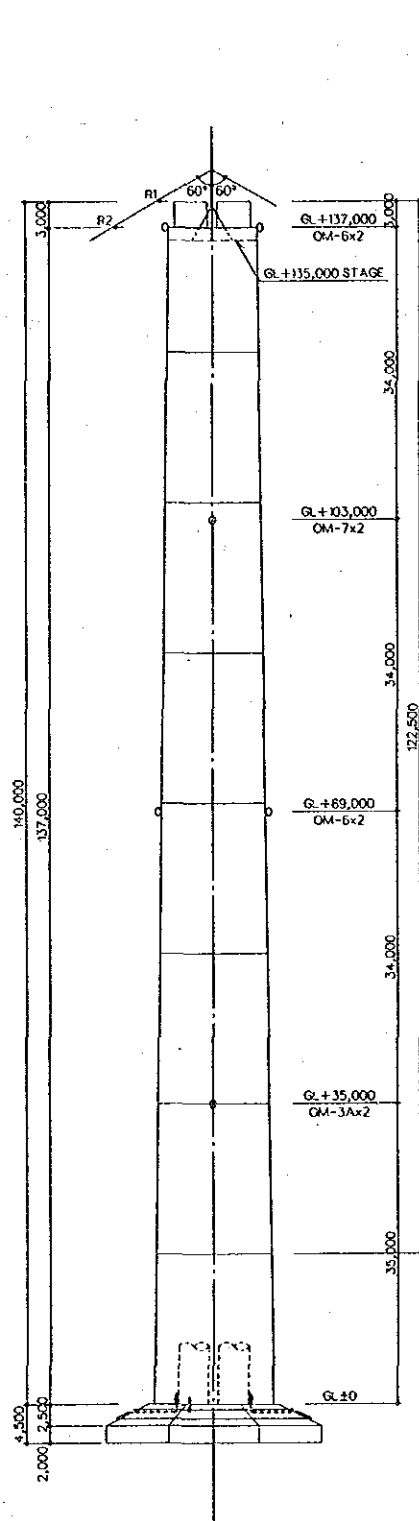
NOTES

- CONCRETE FC=270 KG/CM²
- BAR GRADE 40 (ASTM A615)
- LADDER SS-41
- PLATFORM SS-41
- FLUE COIL SVA41
- COVERING FOR RE-BAR FOUND. 100 MM S.S.T. 60 MM
- LIGHTNING ROD SUS304 L=9000 MM S.S.T. 60 MM
- GRID COPPER L=460 MM
- WIRE A.C.C. 60 MM

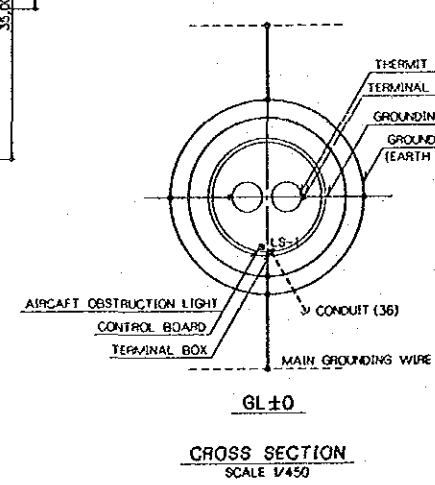
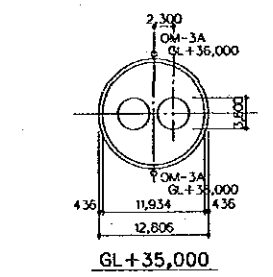
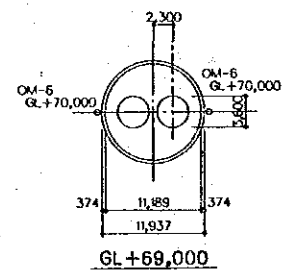
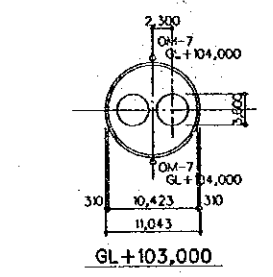
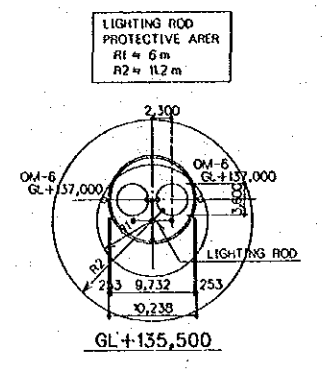
GRAPHIC SCALES



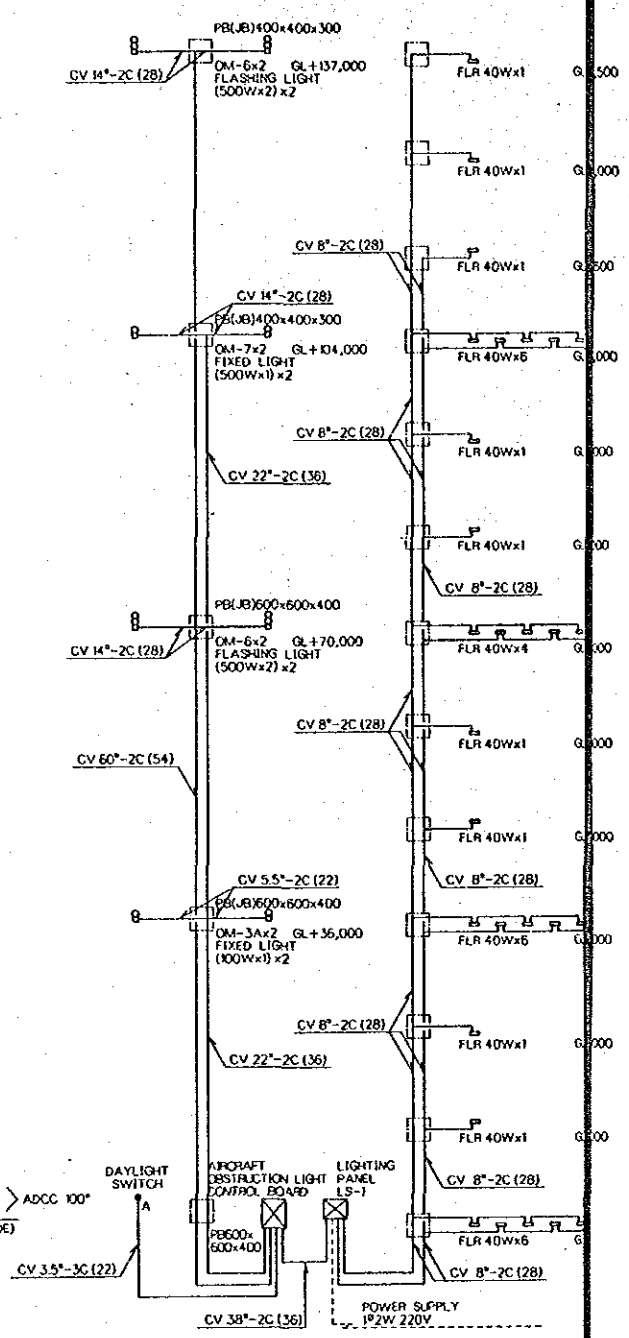
PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
STACK
ARCHITECTURAL & STRUCTURAL DRAWING
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN
APPROVED BY: [Signature] REVIEWED BY: [Signature] CHECKED BY: [Signature] DRAWN BY: [Signature]
DRAWING NO. WAT-1401 SCALE DATE 10 JAN 1990



ELEVATION
SCALE 1/450



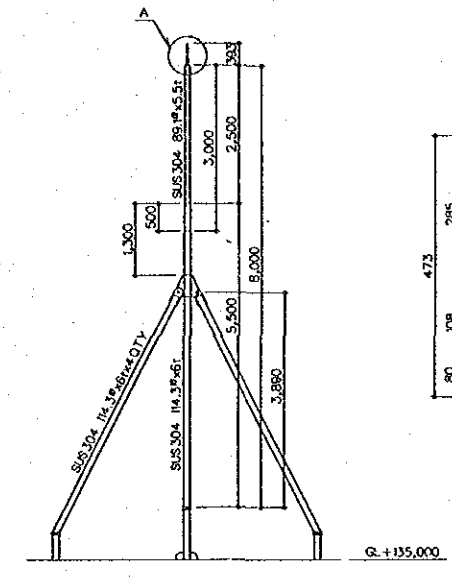
CROSS SECTION
SCALE 1/450



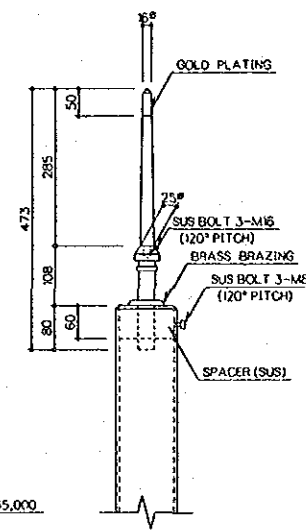
AIRCRAFT
OBSTRUCTION LIGHT
DIAGRAM

INDOOR LIGHTING
DIAGRAM

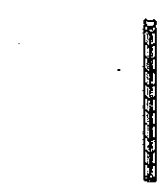
NOTES
(1) UNLESS OTHERWISE SPECIFIED
WIRING IS TO BE CV 35"-2C
(2) UNLESS OTHERWISE SPECIFIED
PULL BOX OR JUNCTION BOX
IS TO BE 300x300x150 (mm)



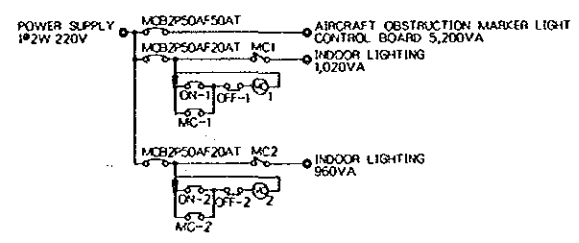
LIGHTNING ROD DETAIL



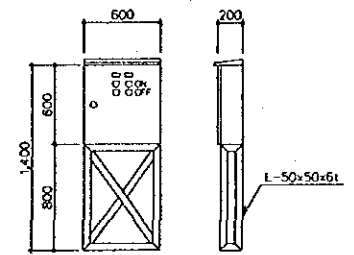
A DETAIL



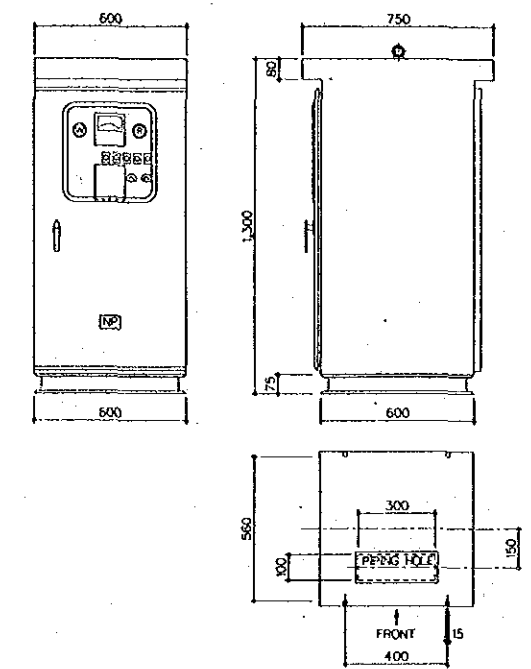
INDOOR LIGHTING FIXTURE



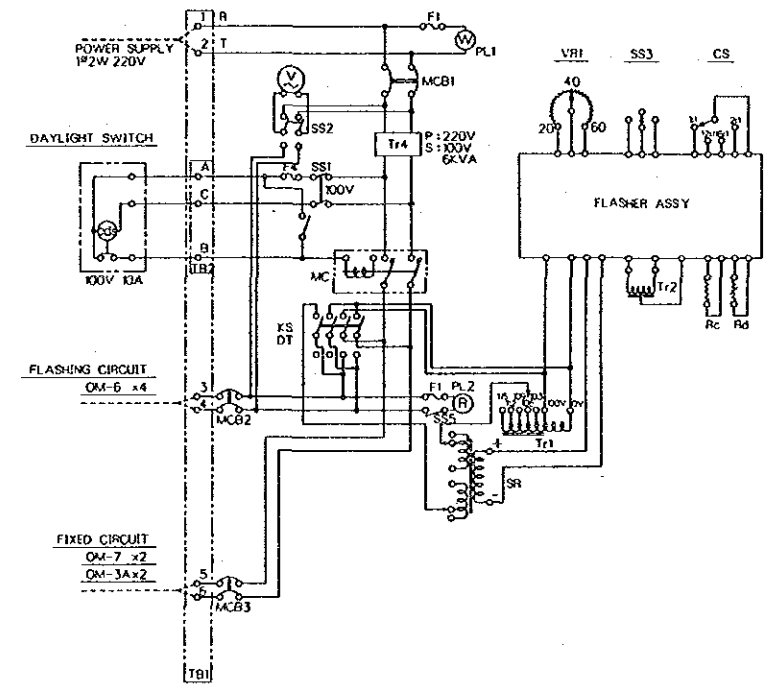
INDOOR LIGHTING FIXTURE
(WATER PROOF AND SEAL UP TYPE)



LIGHTING PANEL LS-1 (WATER PROOF TYPE)

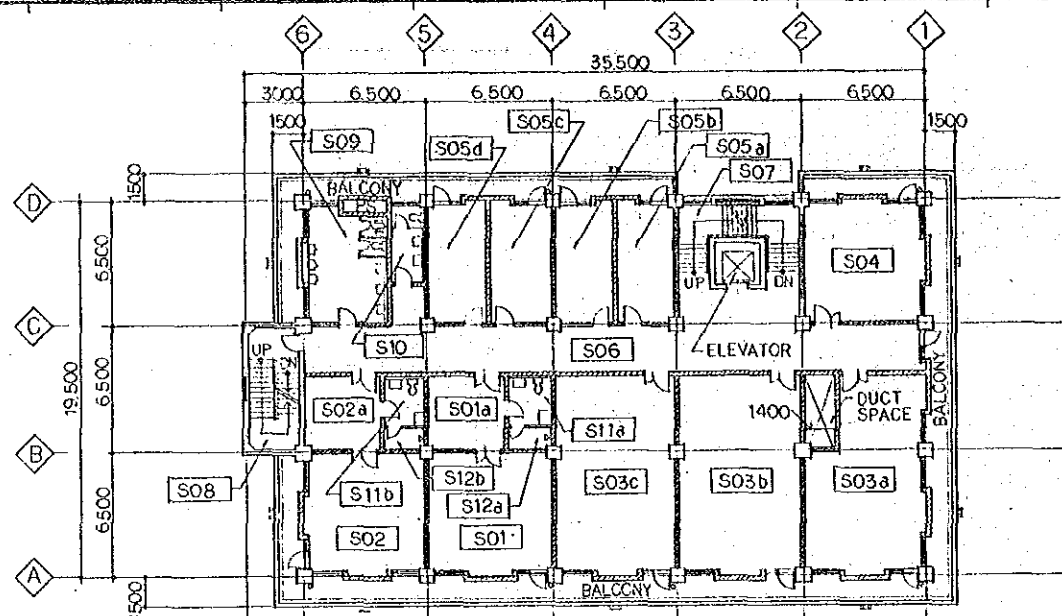


AIRCRAFT OBSTRUCTION MARKER LIGHT CONTROL BOARD
(WATER PROOF TYPE)

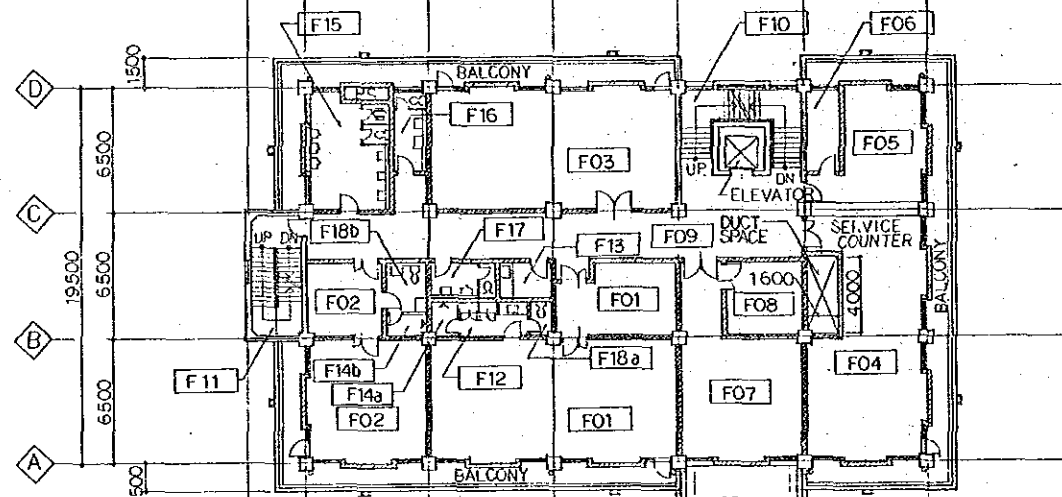


PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
STACK
ELECTRICAL DRAWING
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

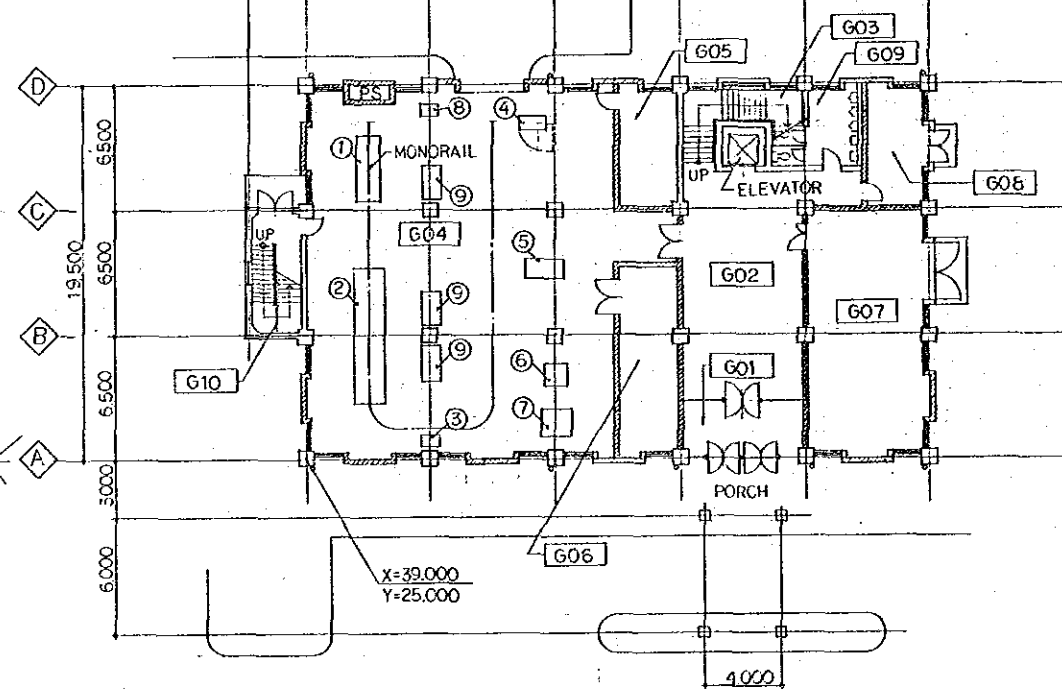
APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
DRAWING NO. WAT-1402	SCALE	DATE 10 JAN. 1990	



SECOND FLOOR PLAN (GL+9.200)
SCALE 1:200

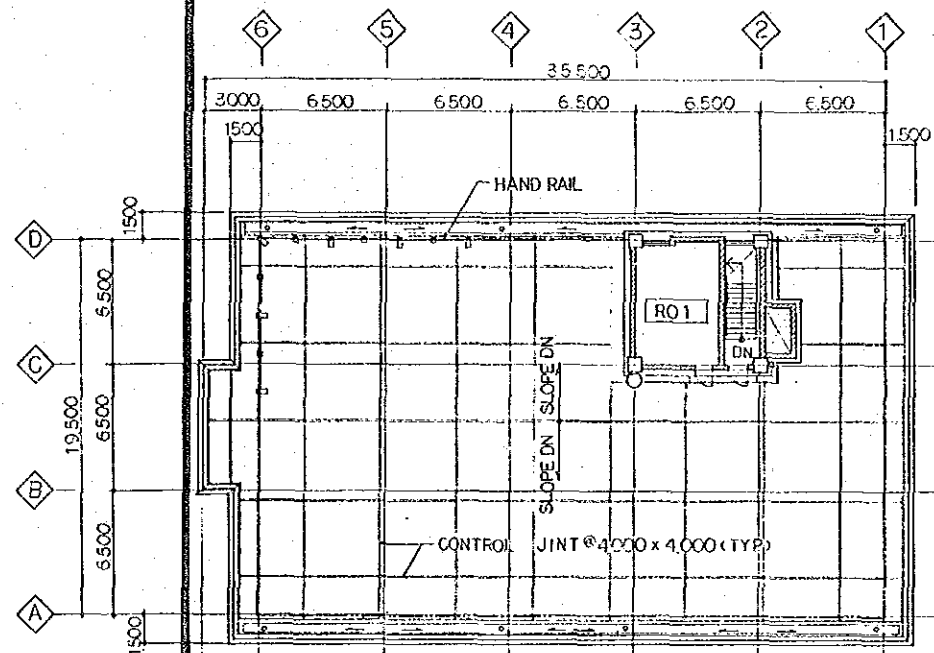


FIRST FLOOR PLAN (GL+5.200)
SCALE 1:200

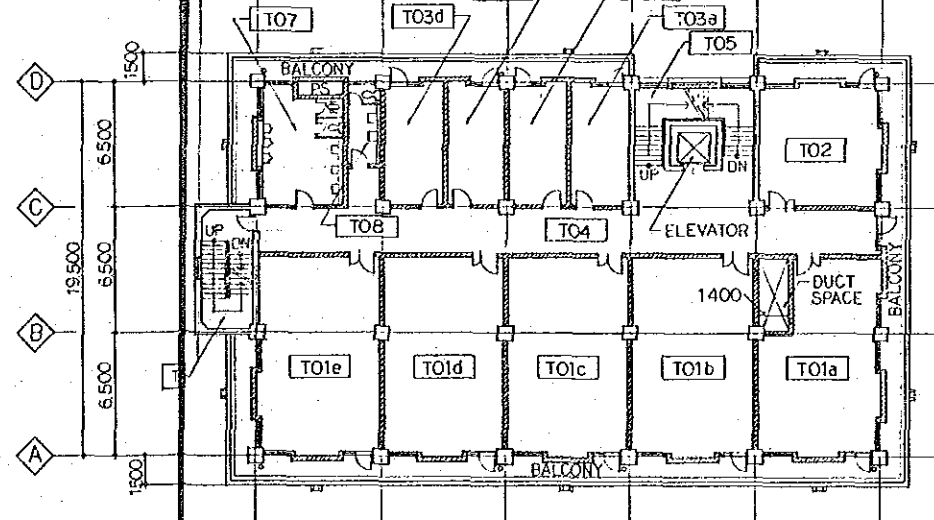


GROUND FLOOR PLAN (GL+200)
SCALE 1:200

PENT HOUSE FLOOR PLAN (GL+21.400)
SCALE 1:200



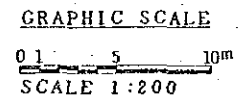
ROOF PLAN (GL+17.200)
SCALE 1:200



THIRD FLOOR PLAN (GL+13.200)
SCALE 1:200

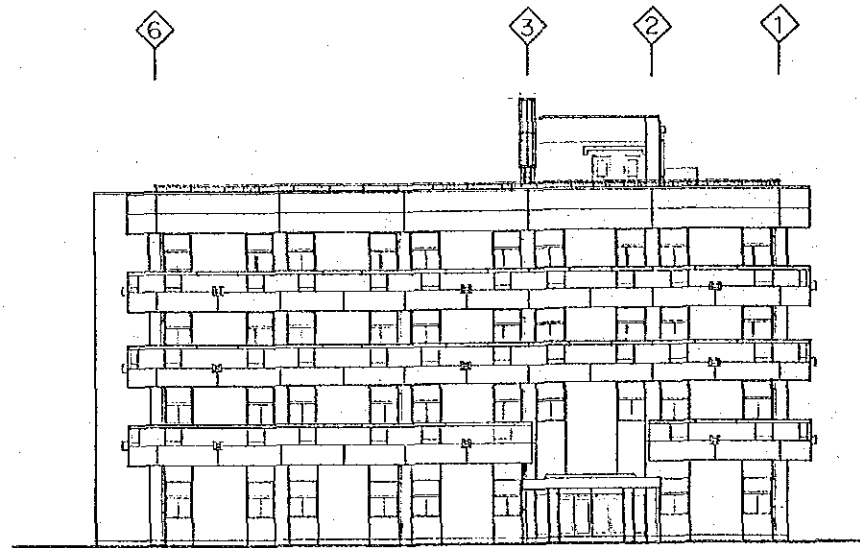
ROOM NAME		ROOM NAME	
NO.	NAME	NO.	NAME
G01	ENTRANCE	S01	ASSISTANT SUPERINTENDENT ROOM
G02	ENTRANCE HALL	S01a	SECRETARY ROOM
G03	STAIR NO.1	S02	ASSISTANT SUPERINTENDENT ROOM
G04	MACHINE SHOP	S02a	SECRETARY ROOM
G05	WELDING ROOM	S03a	JUNIOR ENGINEER ROOM
G06	TOOL & SPARE PARTS STORAGE ROOM	S03b	DO.
G07	AIR CONDITIONING MACHINE ROOM	S03c	DO.
G08	ELECTRIC ROOM	S04	PRAY ROOM
G09	LAVATORY	S05a	EXECUTIVE ENGINEER ROOM
G10	STAIR NO.2	S05b	DO.
		S05c	DO.
		S05d	DO.
F01	SUPERINTENDENT ROOM	S06	CORRIDOR
	SECRETARY ROOM	S07	STAIR NO.1
F02	ASSISTANT SUPERINTENDENT ROOM	S08	STAIR NO.2
	SECRETARY ROOM	S09	LAVATORY (MALE)
F03	CONFERENCE ROOM	S10	LAVATORY (FEMALE)
F04	CANTEEN	S11a	LAVATORY
F05	KITCHEN	S11b	DO.
F06	PANTRY	S12a	SHOWER BOOTH
F07	TELECOMMUNICATION ROOM	S12b	DO.
F08	BATTERY ROOM	T01a	JUNIOR ENGINEER ROOM
F09	CORRIDOR	T01b	DO.
F10	STAIR NO.1	T01c	DO.
F11	STAIR NO.2	T01d	DO.
F12	DRESSING ROOM	T01e	DO.
F13	KITCHENETTE	T02	LIBRARY & STORAGE ROOM
F14a	SHOWER BOOTH	T03a	EXECUTIVE ENGINEER ROOM
F14b	DO.	T03b	DO.
F15	LAVATORY (MALE)	T03c	DO.
F16	LAVATORY (FEMALE)	T03d	DO.
F17	LAVATORY	T04	CORRIDOR
F18a	DO.	T05	STAIR NO.1
F18b	DO.	T06	STAIR NO.2
		T07	LAVATORY (MALE)
		T08	LAVATORY (FEMALE)
		R01	ELEVATOR MACHINE ROOM

EQUIPMENT LIST		
ITEM	TON	
①	LATHE 18 1/16" SWING	30
②	LATHE 40" SWING	15.0
③	BENCH GRINDER	0.2
④	THREADING MACHINE	1.0
⑤	RADIAL DRILLING MACHINE	4.0
⑥	BAND SAWING MACHINE	2.0
⑦	HYDRAULIC PRESS	2.0
⑧	FLOOR DRILLING MACHINE	1.0
⑨	WORK BENCH	0.3E

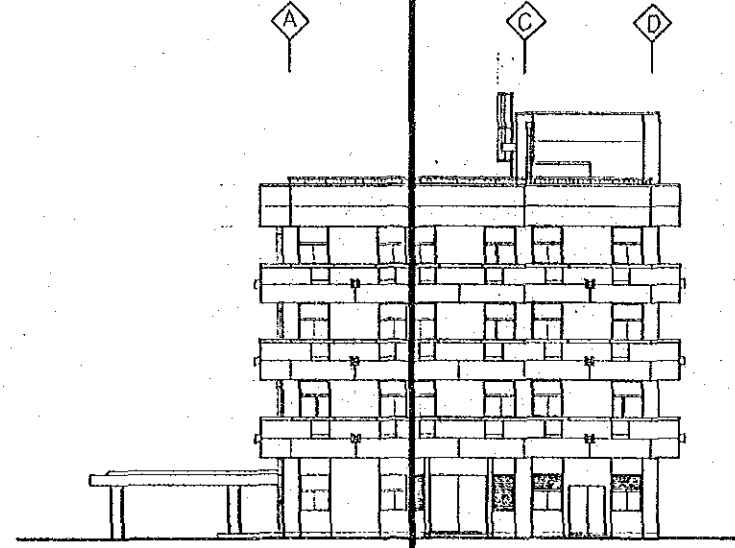


PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
ADMINISTRATION BUILDING
GROUND, FIRST, SECOND, THIRD & ROOF PLAN
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

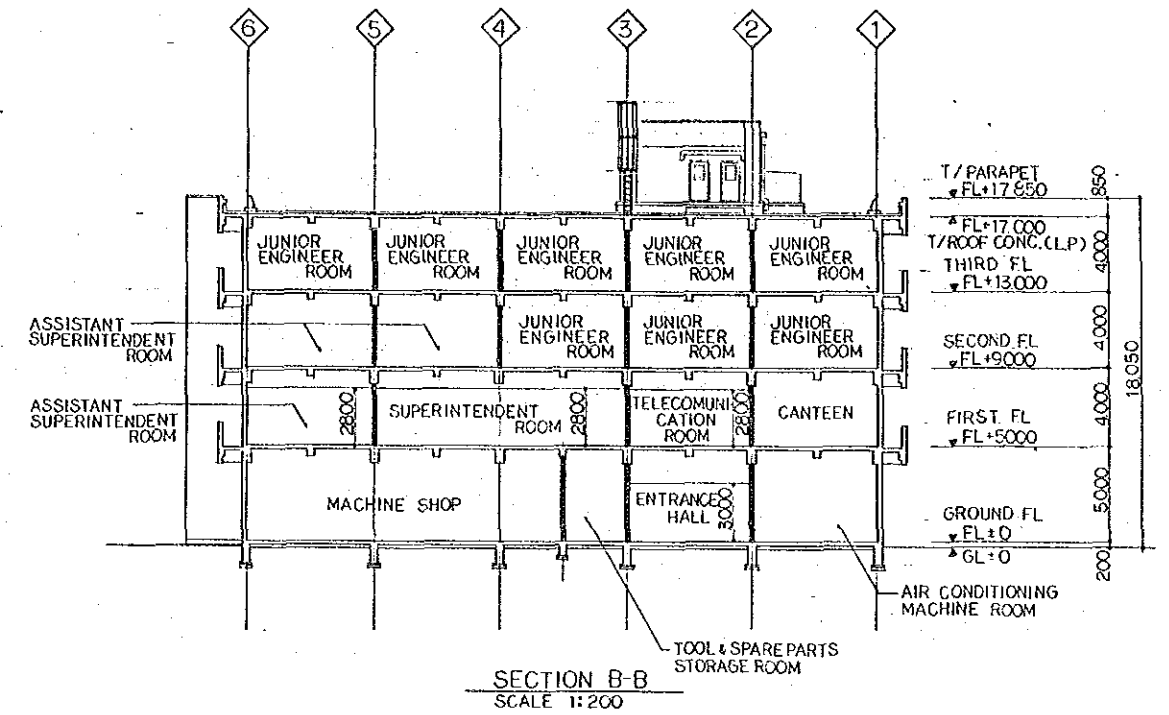
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DRAWING NO. WAT-1501	SCALE 1:200	DATE 10 JAN. 1990	



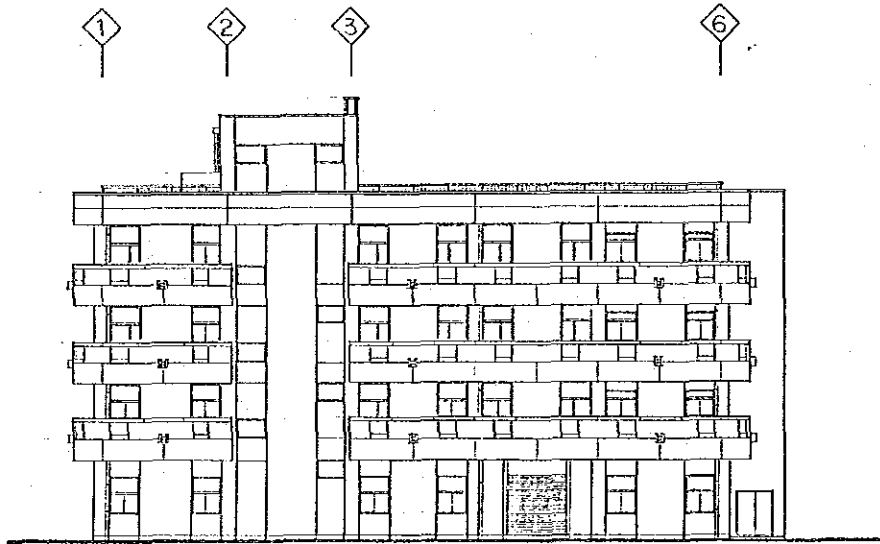
WEST ELEVATION
SCALE 1:200



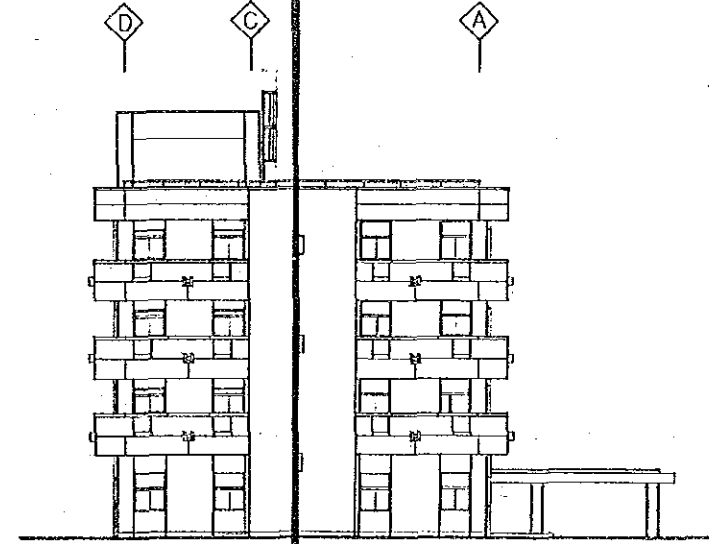
SOUTH ELEVATION
SCALE 1:200



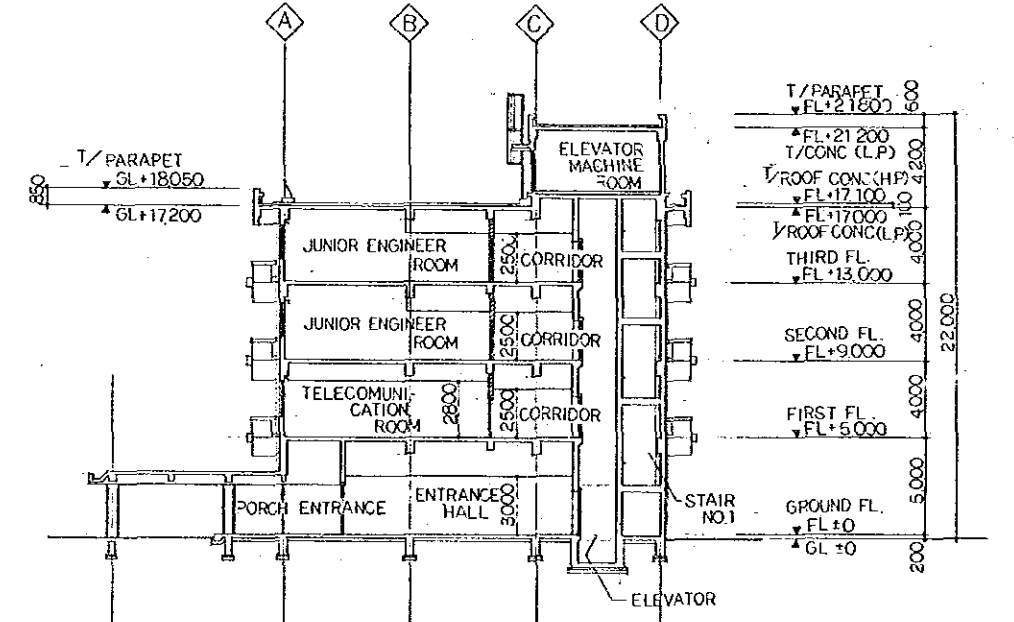
SECTION B-B
SCALE 1:200



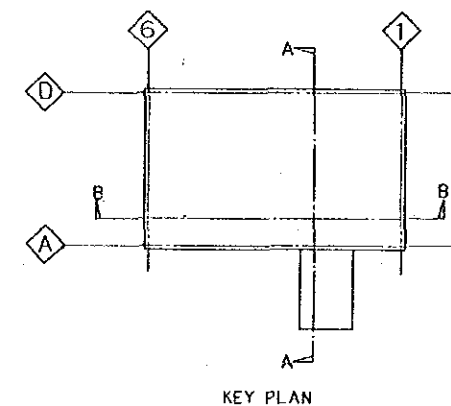
EAST ELEVATION
SCALE 1:200



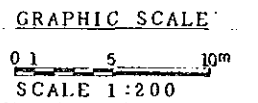
NORTH ELEVATION
SCALE 1:200



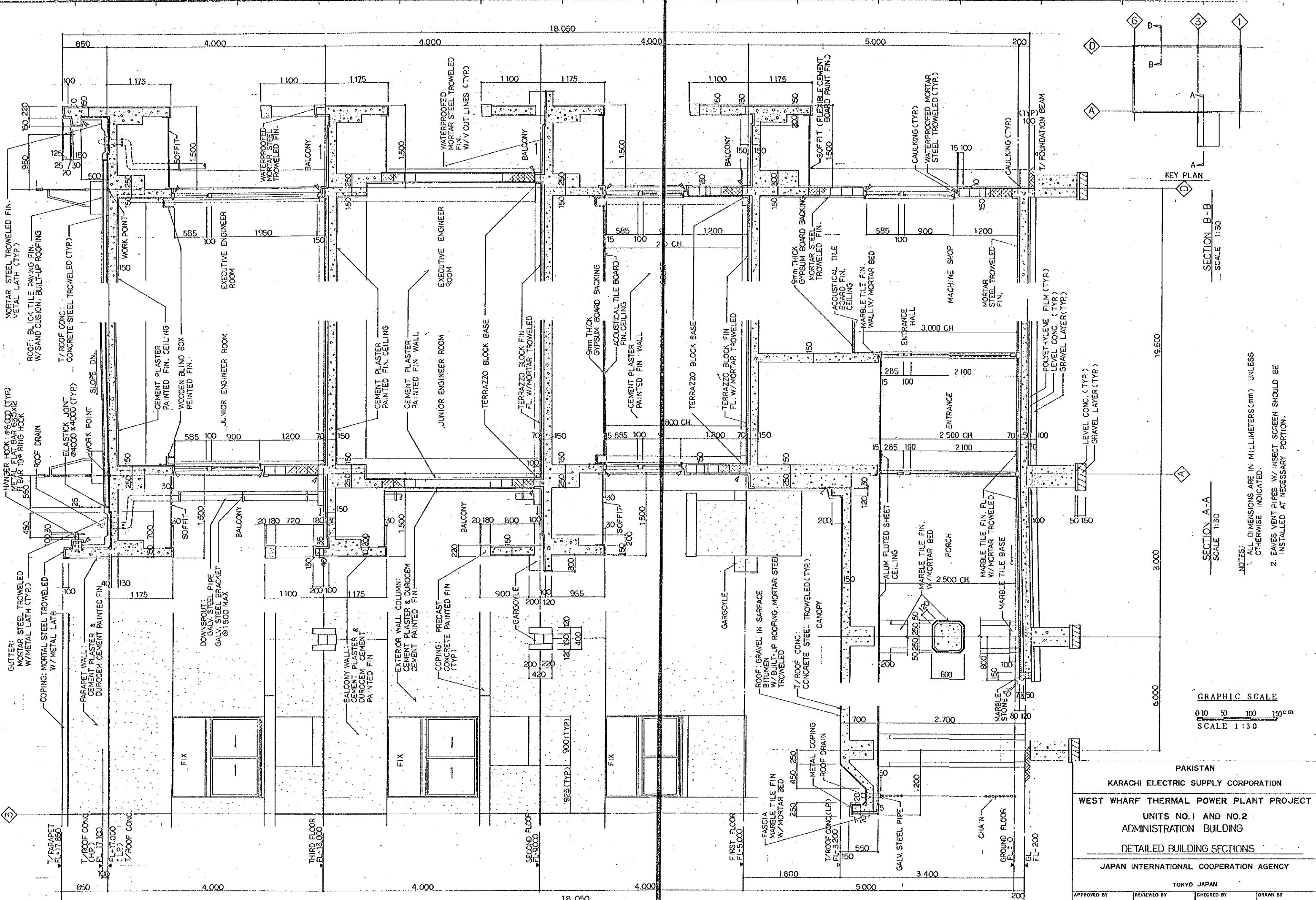
SECTION A A
SCALE 1:200



KEY PLAN

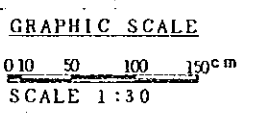


PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
ADMINISTRATION BUILDING			
ELEVATIONS & SECTIONS			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
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DRAWING NO. WAT-1502	SCALE 1:200	DATE 10 JAN. 1990	



SECTION B-B
SCALE 1:30

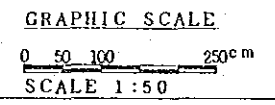
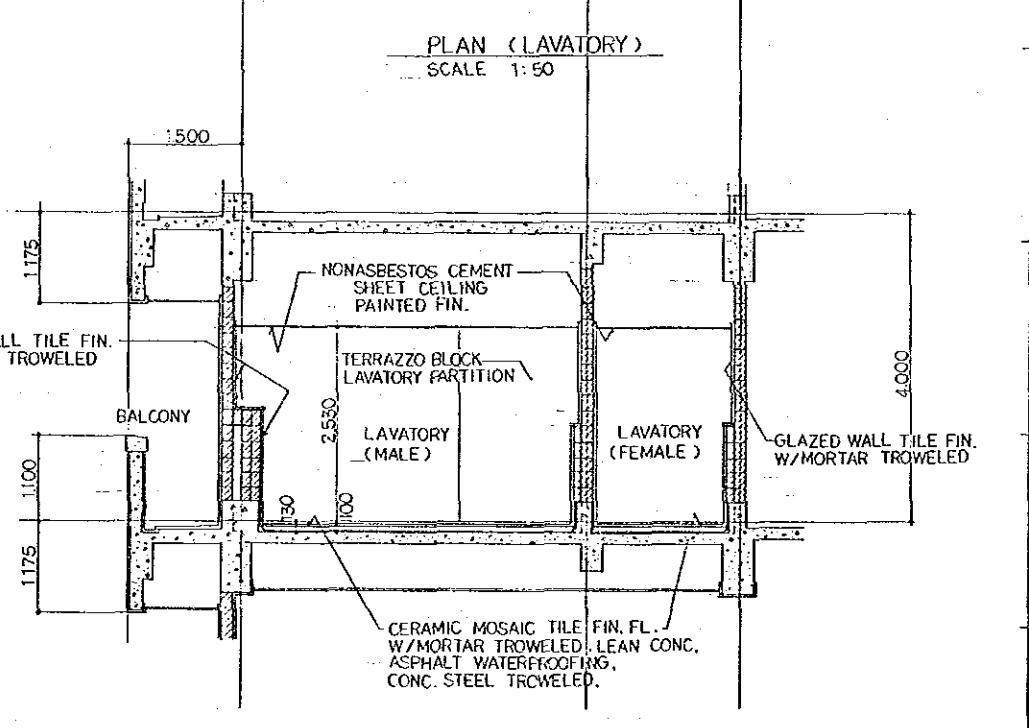
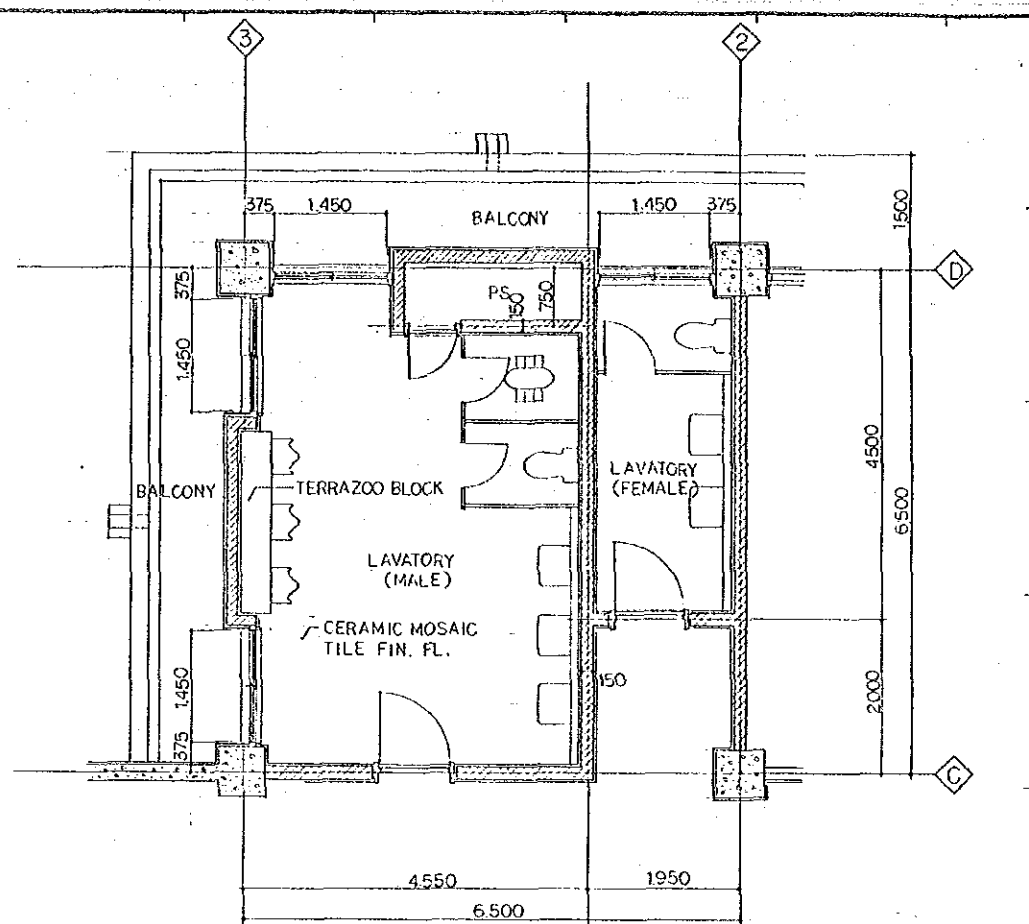
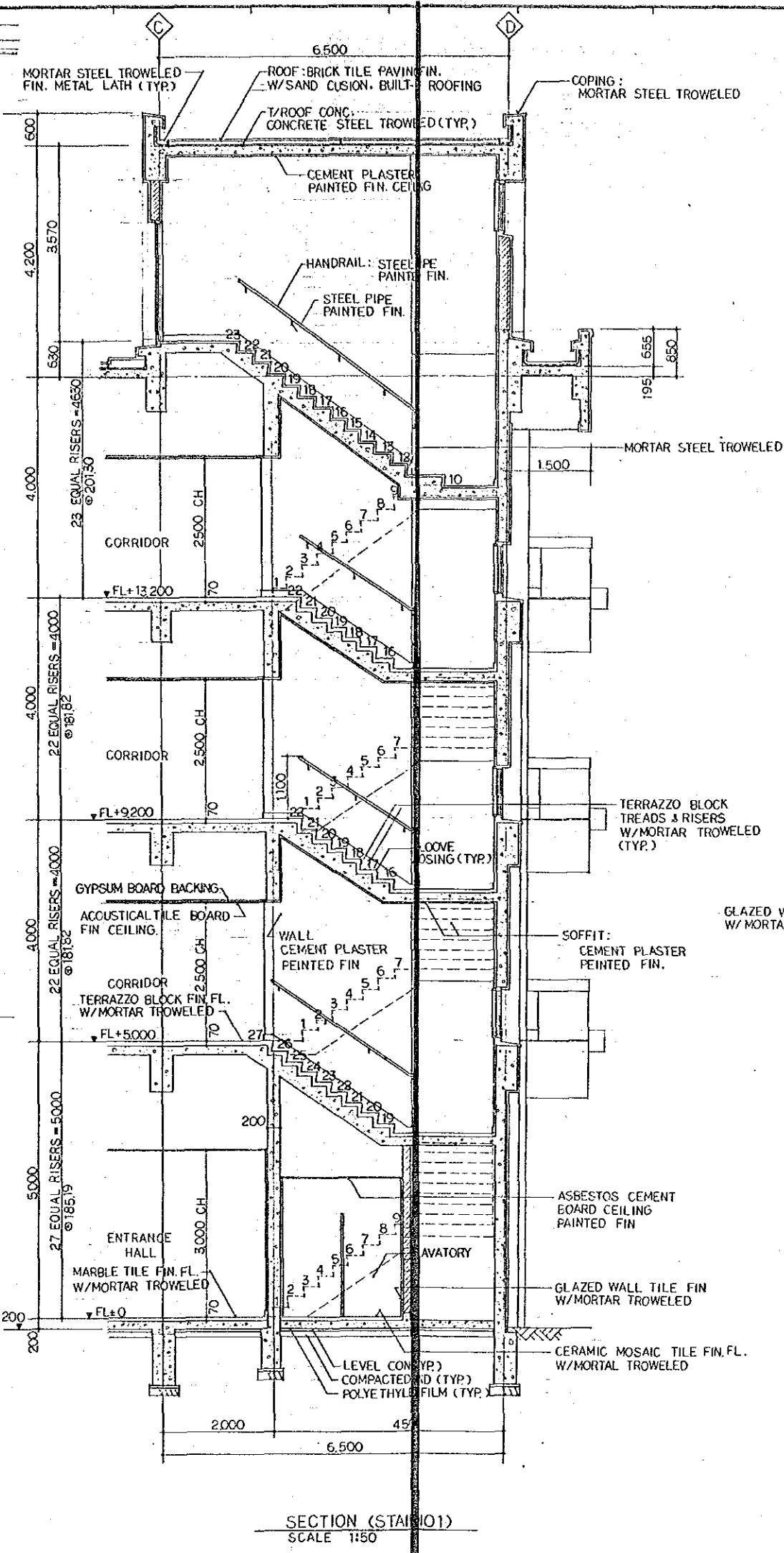
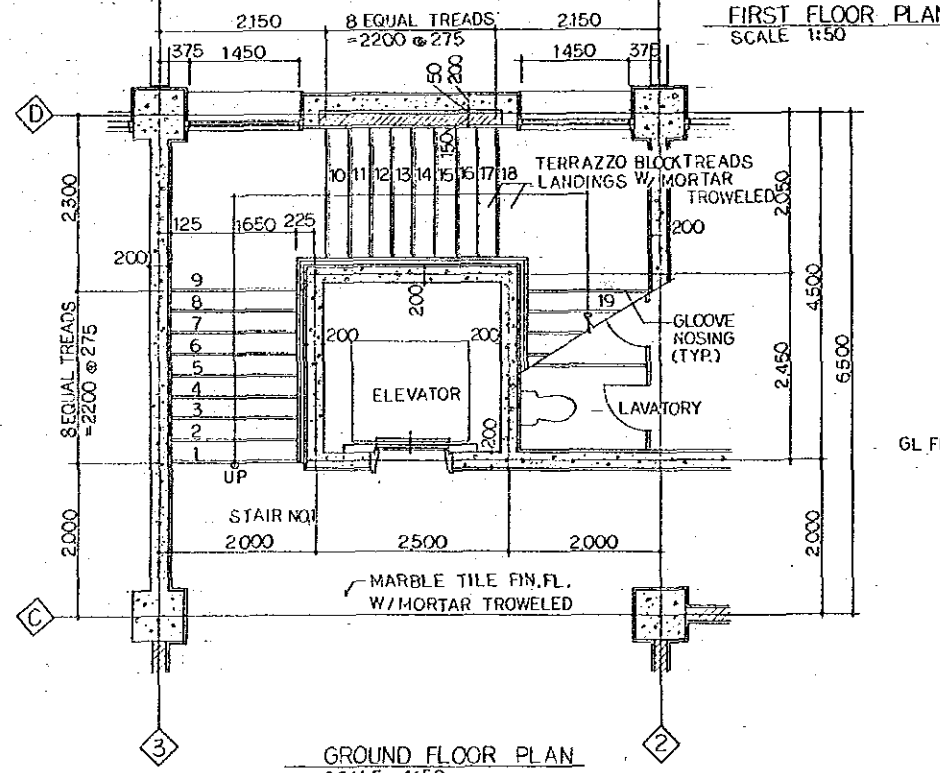
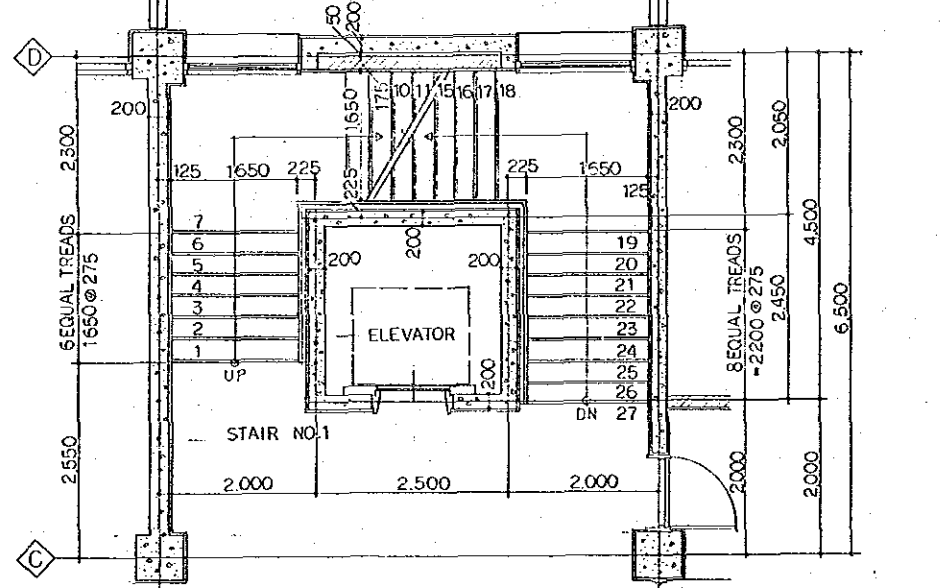
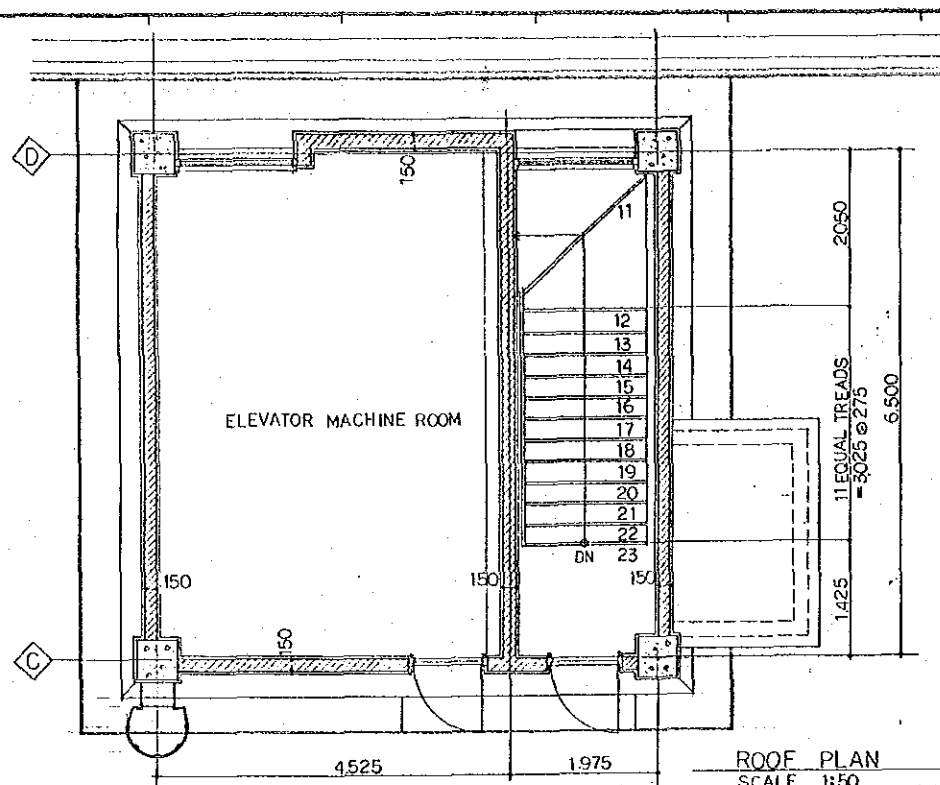
SECTION A-A
SCALE 1:30



NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE INDICATED.
2. EAVES VENT PIPES W/ INSECT SCREEN SHOULD BE INSTALLED AT NECESSARY PORTION.

PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION
WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
ADMINISTRATION BUILDING
DETAILED BUILDING SECTIONS
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
WAT-1503		SCALE 1:30	DATE 10 JAN. 1990



PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO. 1 AND NO. 2			
ADMINISTRATION BUILDING			
DETAILED PARTIAL PLANS & SECTIONS			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
APPROVED BY <i>[Signature]</i>	REVIEWED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>
WAT-1504	1:50	10 JAN. 1990	

SURFACES		MATERIAL	EXTERIOR FINISH	SCHEDULE	FINISH	REMARKS
ROOF		BUILT-UP ROOFING ON CONC. STL. TROWELED.			BRICK TILE PAVING W/SAND CUSION	PLASTIC JOINT 4000x4000 PATTERN W/METAL LATH & ROOF DRAIN ROOF GUTTER: M.S.T.
PRAPET		INSIDE BASE: BUILT-UP ROOFING ON CONCRETE & MORTAR CORNER CANT. OUTSIDE WALL: CEMENT PLASTER			MORTER STL TROWELED FIN. W/METAL LATH	HANGER HOOKS #6000
WALL & COLUMN		BLOCK MASONRY & CONCRETE. CEMENT PLASTER			DUROSEM CEMENT PAINTED FIN.	
BALCONY		FLOOR & BASE: CONCRETE. WALL RAILING: CONCRETE CEMENT PLASTER			FLOOR & BASE: W.M.S.T. WALL RAILING: DUROSEM CEMENT PAINTED FIN.	FLOOR FIN W/V-CUT POINTING #3000 BALCONY GUTTER & GARGOYLES
SOFFIT (ROOF & BALCONY)		METAL SUSPENSION SYSTEM			FLEXIBLE CEMENT BOARD PAINTED FIN.	HANGER HOOKS #1800
CANOPY		CONCRETE MORTAR STL TROWELED			GRAVELIN SURFACE BITUMEN W/BUILT-UP ROOFING	CANOPY GUTTER: COLORED METAL COPING. MARBLE TILE FASCIA FIN.
PORCH MAIN PORCH		FLOOR, COLUMN, BASE & STEP: CONCRETE MORTAR BED. CEILING: METAL SUSPENSION SYSTEM			FLOOR, COLUMN, BASE & STEP: MARBLE TILE FIN. CEILING: ALUMINUM FLUTED SHEET	MINOR PORCH FLOOR FINISHED W/MORTER STL TROWELED
SCARCEMENT STOOP & FOUND. WALL		CONCRETE			MORTER STL TROWELED	SCARCEMENT FIN W/V-CUT POINTING #3000. SPLASH BLOCKS
DOOR & WINDOW		ALUMINUM FRAME GLAZED DOOR & WINDOW /STEEL FLUSH			PAINTED FIN. /ANODIZED W/GLAZING	
LOUVER		STEEL			PAINTED FIN.	
ROOF DRAIN & DOWNSPOUT		ROOF DRAIN: CAST IRON DOWNSPOUT. GALV. STL. PIPE			ROOF DRAIN: CORL TAR BAKED FIN. DOWNSPOUT: PAINTED FIN.	SUPPORTED W/GALV STL BRACKET. CHAIN DOWNSPOUT AT CANOPY
LADDER						

FLOOR	ELEV.	ROOM NAME	RM. NO.	FLOOR		BASEBOARD		H.	WALL		CEILING		SUSP. CEILING HEIGHT	REMARKS
				MAT.	FIN.	MAT.	FIN.		MAT.	FIN.	MAT.	FIN.		
GROUND FL.	FL+0	ENTRANCE	G01	CONC. MORTAR	MARBLE TILE	C.B. & CONC. MORTAR	MARBLE TILE	100	C.B. & CONC. MORTAR	MARBLE TILE	METAL SUSP. SYSTEM	A.F.S.	2500	
	GL+200	ENTRANCE HALL	G02	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	3000	INFORMATION BOARD. CEILING ACCESS DOOR A.C.
		MACHINE SHOP	G04	CONC.	M.S.T. W/V-CUT LINE	C.B. & CONC.	M.S.T.	100	C.B. & CONC. M.S.T.	PAINTED	EXPOSED CONC.	PAINTED		MACHINE FOUND. MONORAIL
		WELDING ROOM	G05	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.		STEEL RACKS.
		TOOL & SPARE PARTS STORAGE ROOM	G06	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.		MACHINE FOUND.
		AIR CONDITIONING MACHINE ROOM	G07	DO.	DO.	DO.	DO.	DO.	C.B. & CONC.	M.S.T.	DO.	DO.		
		ELECTRIC ROOM	G08	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.		
		LAVATORY	G09	CONC. MORTAR	CERAMIC MOSAIC TILE	C.B. & CONC. MORTAR	GLAZED WALL TILE (BASE TILE)	DO.	C.B. & CONC. MORTAR	GLAZED WALL TILE	METAL SUSP. SYSTEM	PAINTED	2530	TERRAZZO PANEL CUBICLE PARTITIONS. CEILING ACCESS DOOR. EXHAUST CEILING FAN.
FIRST FL.	FL+5000	SUPERINTENDENT ROOM	F01	CONC. MORTAR	TERRAZZO BLOCK	C.B. & CONC. MORTAR	TERRAZZO BLOCK	100	C.B. & CONC. CEMENT PLASTER	VINYL CLOTH	METAL SUSP. SYSTEM	A.T.B.	2800	BLIND BOX. CEILING ACCESS DOOR A.C.
		ASSISTANT SUPERINTENDENT ROOM	F02	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.
		SECRETARY ROOM	F03	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.
		CONFERENCE ROOM	F04	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.
		CANTEEN	F05	CONC. A.W. 1=300 LEAN CONC. MORTAR	CLINKER TILE	C.B. & CONC. A.W. MORTAR	GLAZED WALL TILE (BASE TILE)	DO.	C.B. & CONC. MORTAR	GLAZED WALL TILE	METAL SUSP. SYSTEM	PAINTED	DO	BLIND BOX. CEILING ACCESS DOOR A.C.
		KITCHEN	F06	CONC.	M.S.T.	C.B. & CONC.	M.S.T.	100	C.B. & CONC. CEMENT PLASTER	PAINTED	DO.	DO.	DO.	BLIND BOX. CEILING ACCESS DOOR A.C.
		PAENTRY	F07	CONC. W.M.S.T. CONC. A.C.F.	CHLORIDE POLYVINYL TILE	C.B. & CONC. CEMENT PLASTER	CHLORIDE POLYVINYL BASE TILE	DO.	DO.	DO.	DO.	A.T.B.	DO	BLIND BOX. CEILING ACCESS DOOR A.C.
		TELECOMMUNICATION ROOM	F08	CONC. M.S.T.	ACID-PROOF VINYL TILE	DO.	ACID-PROOF VINYL BASE TILE	DO.	DO.	ACID-PROOF PAINTED	DO.	ADID-PROOF PAINTED	2500	CEILING ACCESS DOOR. EXHAUST CEILING FAN
		BATTERY ROOM	F12	CONC. MORTAR	TERRAZZO BLOCK	C.B. & CONC. MORTAR	TERRAZZO BLOCK	DO.	C.B. & CONC. CEMENT PLASTER	PAINTED	DO.	PAINTED	DO	WARDROBES A.C.
		DRESSING ROOM	F13	CONC. A.W. LEAN CONC. MORTAR	CERAMIC MOSAIC TILE	C.B. & CONC. A.W. MORTAR	GLAZED WALL TILE (BASE TILE)	DO.	C.B. & CONC. MORTAR	GLAZED WALL TILE	DO.	PAINTED	DO	EXHAUST CEILING FAN
		KITCHENETTE	F14	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO	TERRAZZO PANEL CUBICLE PARTITIONS. EXHAUST CEILING FAN. CEILING ACCESS DOOR
		SHOWER BOOTH	F15 F16 F17 F18 F18b	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	2530	DO.
SECOND FL.	FL+9000	ASSISTANT SUPERINTENDENT ROOM	S01 S02	CONC. MORTAR	TERRAZZO BLOCK	C.B. & CONC. MORTAR	TERRAZZO BLOCK	100	C.B. & CONC. CEMENT PLASTER	PAINTED	CEMENT PLASTER	PAINTED		BLIND BOX. CEILING ACCESS DOOR A.C.
		SECRETARY ROOM	S01a S02a	DO.	DO.	DO.	DO.	DO.	DO.	VINYL CLOTH	METAL SUSP. SYSTEM	A.T.B.	2500	DO. A.C.
		JUNIOR ENGINEER ROOM	S03 a.b.c.	DO.	DO.	DO.	DO.	DO.	DO.	PAINTED	METAL SUSP. SYSTEM	A.T.B.	2500	DO. A.C.
		PRAY ROOM	S04	CONC. M.S.T.	CHLORIDE POLYVINYL TILE	C.B. & CONC. CEMENT PLASTER	CHLORIDE POLYVINYL BASE TILE	DO.	DO.	DO.	CONC. CEMENT PLASTER	PAINTED	DO.	DO. A.C.
		EXECUTIVE ENGINEER ROOM	S05 a.b.c.d.	CONC. MORTAR	TERRAZZO BLOCK	C.B. & CONC. MORTAR	TERRAZZO BLOCK	DO.	C.B. & CONC. CEMENT PLASTER	DO.	DO.	DO.	DO.	DO. A.C.
		LAVATORY	S09 S10 S11a S11b	CONC. A.W. LEAN CONC. MORTAR	CERAMIC MOSAIC TILE	C.B. & CONC. A.W. MORTAR	GLAZED WALL TILE (BASE TILE)	DO.	C.B. & CONC. MORTAR	GLAZED WALL TILE	METAL SUSP. SYSTEM	DO.	2500	TERRAZZO PANEL CUBICLE PARTITIONS. EXHAUST CEILING FAN. CEILING ACCESS DOOR
		SHOWER BOOTH	S12 a.b.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO	DO.
THIRD FL.	FL+13000	JUNIOR ENGINEER ROOM	T01 a.b.c.d.e.	DO.	TERRAZZO BLOCK	C.B. & CONC. MORTAR	TERRAZZO BLOCK	100	C.B. & CONC. CEMENT PLASTER	PAINTED	CEMENT PLASTER	PAINTED	2500	BLIND BOX. CEILING ACCESS DOOR A.C.
		LIBRARY & STORAGE ROOM	T02	DO.	DO.	DO.	DO.	DO.	DO.	DO.	CONC. CEMENT PLASTER	PAINTED	DO.	DO. A.C.
		EXECUTIVE ENGINEER ROOM	T03 a.b.c.d.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO. A.C.
		LAVATORY	T07 T08	CONC. A.W. LEAN CONC. MORTAR	CERAMIC MOSAIC TILE	C.B. & CONC. A.W. MORTAR	GLAZED WALL TILE (BASE TILE)	DO.	C.B. & CONC. MORTAR	GLAZED WALL TILE	METAL SUSP. SYSTEM	DO.	2530	TERRAZZO PANEL CUBICLE PARTITIONS. EXHAUST CEILING FAN. CEILING ACCESS DOOR
	FL+17630	ELEVATOR MACHINE ROOM	R01	CONC.	M.S.T.	C.B. & CONC.	M.S.T.	100	C.B. & CONC.	M.S.T.	EXPOSED CONC.	NONE		EXHAUST WALLMOUNTED FAN. MACHINE FOUND.
COMMON FL.		STAIR No1		CONC. MORTAR	TERRAZZO BLOCK	C.B. & CONC. MORTAR	TERRAZZO BLOCK	STRINGER 50 LANDING 100	C.B. & CONC. CEMENT PLASTER	PAINTED	CEMENT PLASTER	PAINTED (STAIR SOFFIT)		
		STAIR No2		DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.	DO.		
		CORRIDOR		CONC. MORTAR	DO.	DO.	DO.	100	DO.	DO.	METAL SUSP. SYSTEM	A.T.B.	2500	

FINISH SCHEDULE ABBREVIATIONS

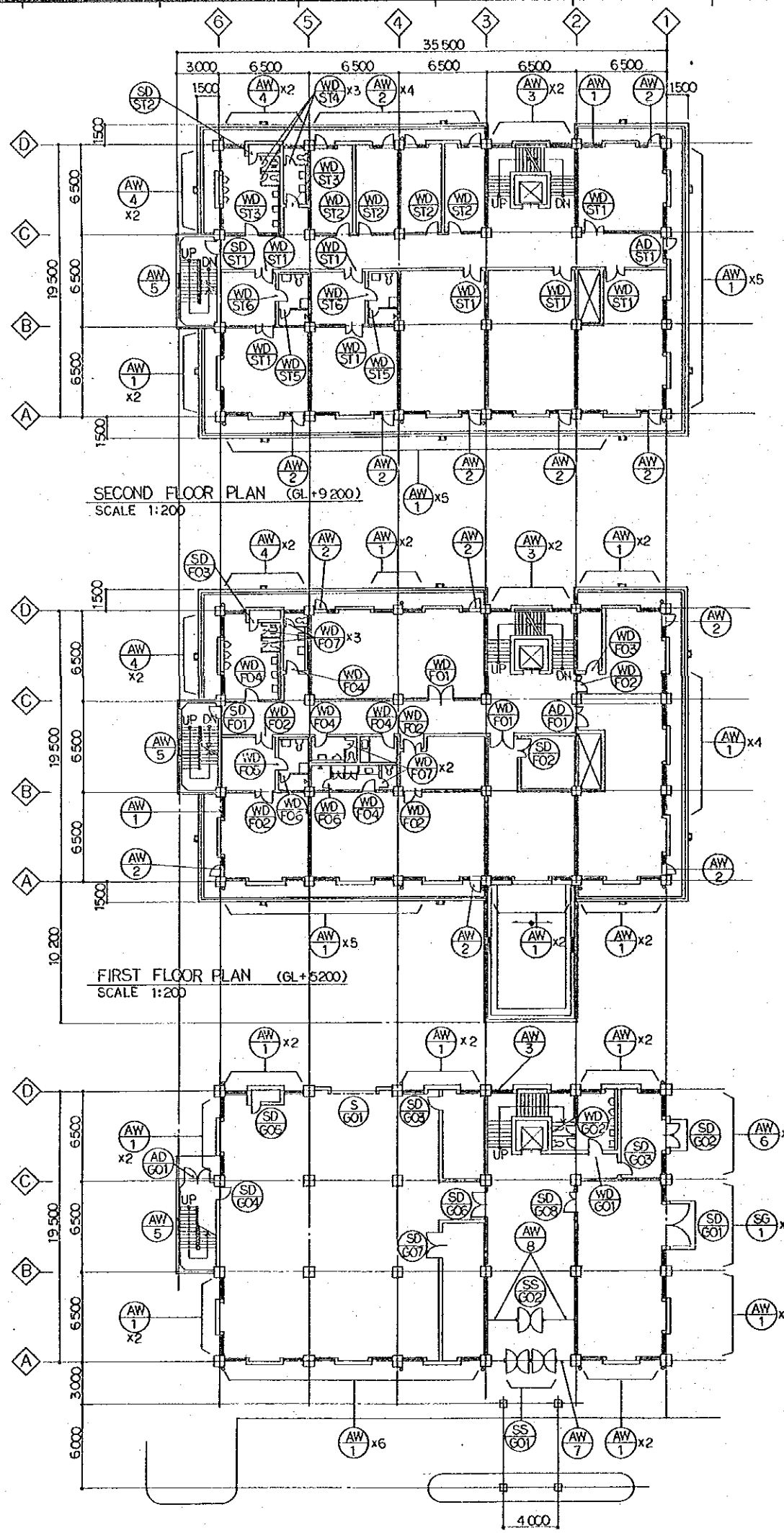
A.C.F. --- ACCESSIBLE COMPUTER FLOOR	FIN. --- FINISH	GL. --- GROUND LEVEL
ALUM. --- ALUMINUM	FL. --- FLOOR LINE	GALV. --- GALVANIZED
& --- AND	FOUND. --- FOUNDATION	H. --- HEIGHT
A.T.B. --- ACOUSTICAL TILE BOARD	MAT. --- MATERIAL	M.S.T. --- MORTAR STEEL TROWELED
A.W. --- ASPHALT WATERPROOF	MET. --- METAL	N.C.B. --- NON-ASBESTOS CEMENT SHEET
A.C. --- AIR CONDITIONING	STL. --- STEEL	SUSP. --- SUSPENDED
A.F.S. --- ALUM. FLUTED SHEET	T/ --- TOP OF	VENT. --- VENTILATING
CONC. --- CONCRETE	W/ --- WITH	W.M.S.T. --- WATERPROOFED MORTAR STEEL TROWELED
C.B. --- CONCRETE BLOCK		
DO. --- DITTO		

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KARACHI ELECTRIC SUPPLY CORPORATION

WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2
ADMINISTRATION BUILDING
FINISH SCHEDULE

JAPAN INTERNATIONAL COOPERATION AGENCY
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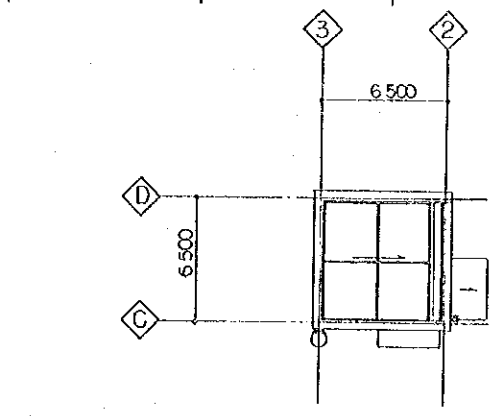
APPROVED BY <i>Gulshan</i>	REVIEWED BY <i>H. Kame</i>	CHECKED BY <i>H. Kame</i>	DRAWN BY <i>S. H. Khan</i>
DRAWING NO. WAT - 1505	SCALE	DATE 10 JAN. 1990	



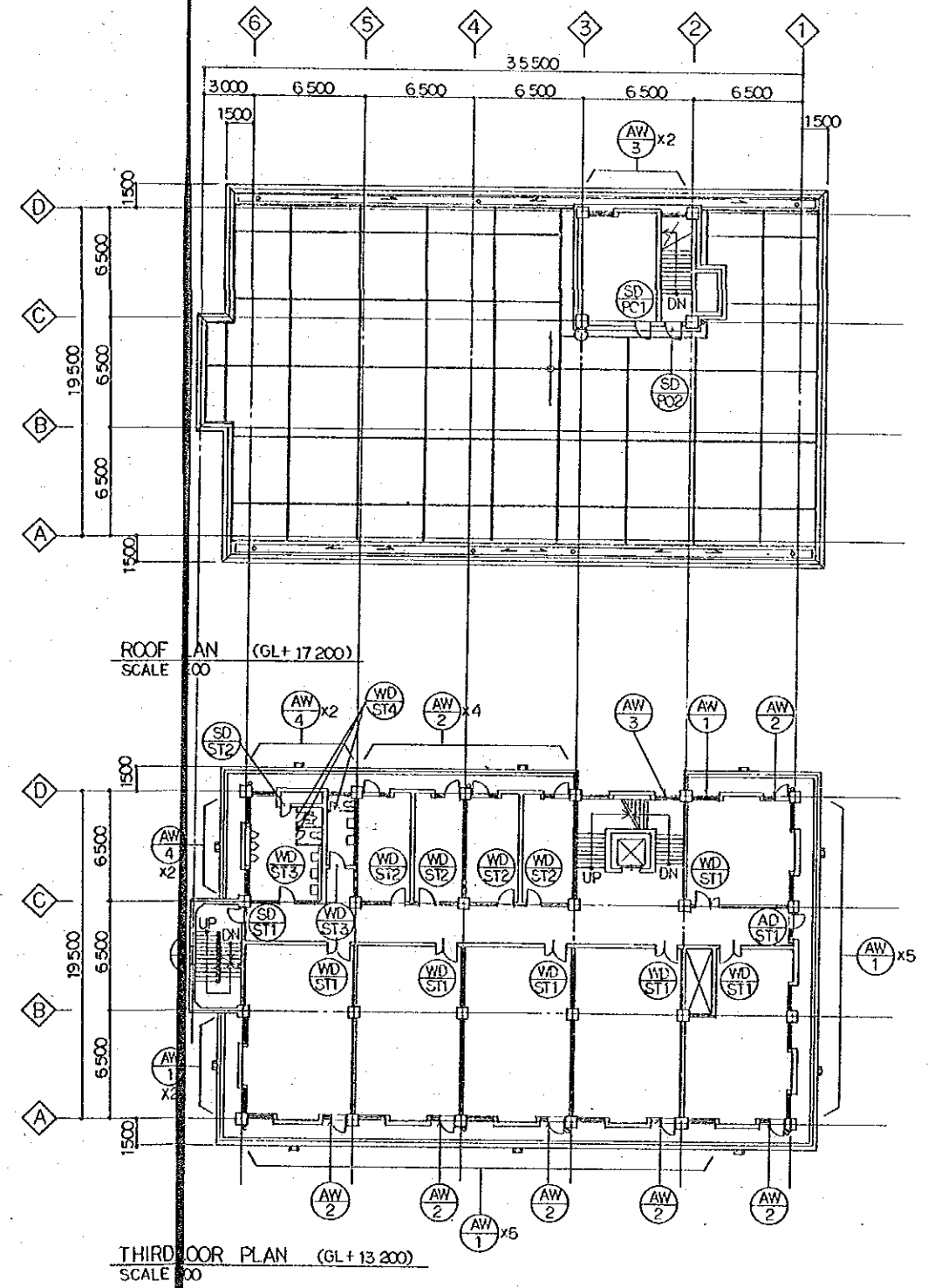
SECOND FLOOR PLAN (GL+9.200)
SCALE 1:200

FIRST FLOOR PLAN (GL+5.200)
SCALE 1:200

GROUND FLOOR PLAN (GL+2.00)
SCALE 1:200

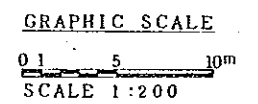


PENT HOUSE FLOOR PLAN (GL+21.400)
SCALE 1:200



ROOF PLAN (GL+17.200)
SCALE 1:200

THIRD FLOOR PLAN (GL+13.200)
SCALE 1:200



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DOOR WINDOW & LOUVER KEY PLAN			
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DRAWING NO. WAT-1506		SCALE 1:200	DATE 10 JAN. 1990

FLOOR	TARGET	TYPE	MATERIAL	SIZE			HARDWARE	THRESHOLD	QTY.	REMARKS
				WIDTH	HEIGHT	THICK				
GROUND FLOOR	AD 001	M	ALUM.	1800	2100	30	d	T-1	1	DOUBLE DOORS
	SS 001	P	GLASS	4000	2100	12	a	NONE	1	DO.
	SS 002	O	DO.	2000	2100	12	a	NONE	1	DO.
	SD 001	J	STEEL	3000	2485	40	d	T-2	1	DO.
	SD 002	J	DO.	2000	2485	40	d	T-2	1	DO.
	SD 003	C	DO.	900	2100	40	o	T-3	2	
	SD 004	A	DO.	900	2100	40	o	T-3	1	
	SD 005	N	DO.	600	600	40	k	T-4	1	
	SD 006	L	DO.	1800	2100	40	d	T-3	1	DOUBLE DOORS
	SD 007	K	DO.	1800	2100	40	d	T-3	1	DO.
1ST FLOOR	AD 001	I	ALUM.	1400	2100	30	d	NONE	1	
	SD 001	A	STEEL	900	2100	40	o	T-3	1	
	SD 002	G	DO.	1400	2100	40	d	T-3	1	
	SD 003	N	DO.	600	600	40	k	T-4	1	
	WD 001	L	WOOD	1800	2100	40	d	T-3	2	DOUBLE DOORS
	WD 002	H	DO.	1400	2100	40	d	T-3	5	
	WD 003	E	DO.	900	2100	40	f	T-3	1	
	WD 004	B	DO.	600	1750	40	j	NONE	2	
	WD 005	C	DO.	800	2100	40	g	T-5	1	
	WD 006	B	DO.	700	1950	40	j	NONE	2	
2ND FLOOR & 3RD FLOOR	AD 001	Q	ALUM.	1450	2335	30	o	T-1	2	
	SD 001	A	STEEL	900	2100	40	o	T-3	2	
	SD 002	N	DO.	600	600	40	k	T-4	2	
	WD 001	H	WOOD	1400	2100	40	d	T-3	14	
	WD 002	E	DO.	900	2100	40	o	T-3	8	
	WD 003	E	DO.	800	2100	40	g	T-5	4	
	WD 004	B	DO.	600	1750	40	j	NONE	6	
	WD 005	B	DO.	700	1950	40	j	NONE	2	
	WD 006	C	DO.	800	2100	40	g	T-5	2	
	WD 007	B	DO.	600	1750	40	j	NONE	5	
PENT HOUSE	SD 001	C	STEEL	900	2100	40	o	T-2	1	
	SD 002	D	DO.	900	2100	40	i	T-2	1	

DOOR TYPES	

THRESHOLD TYPES		
T-1 ALUM	T-2 STEEL	T-3 STAINLESS STEEL
T-4 STAINLESS STEEL	T-5 TERRAZZO BLOCK	

DESCRIPTION	HARDWARE LIST										
	GROUP	a	b	c	d	e	f	g	h	j	k
FLOOR HINGE											
HINGE											
DOOR KNOB											
DOOR PULL											
PUSH PLATE											
LOCKSET											
LATCH SET											
DOOR CLOSER											
STOP & HOLDER											
FLUSH BOLT											
PUSH BOARDS OR PUSH BARS											
FLUSH CUP											

NOTES
 1. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE INDICATED.
 2. ALL METAL & WOODEN SURFACES SHALL BE COATED WITH PAINT UNLESS OTHERWISE INDICATED.
 3. DETAIL DIMENSIONS FOR ALL DOORS, WINDOW & LOUVERS MAY BE MODIFIED ACCORDING TO APPROVED MANUFACTURER'S STANDARDS.

TARGET	DESCRIPTION	SIZE		QTY.	LOCATION	REMARKS
		WIDTH	HEIGHT			
AW 1	ALUM. SLIDING WINDOW W/FIXED WINDOW	1450	1585	64		
AW 2	ALUM. PROJECTED-OUT & FIXED WINDOW W/ALUM. FRAMED DOOR	1450	2635	25		
AW 3	ALUM. FIXED WINDOW	1450	785	8		
AW 4	ALUM. SLIDING WINDOW W/FIXED WINDOW	1450	1285	12		
AW 5	ALUM. SLIDING WINDOW W/STEEL LOUVER	1450	785	4		
AW 6	ALUM. SLIDING WINDOW W/STEEL LOUVER	1450	1585	2		
AW 7	ALUM. FIXED WINDOW	5800	2485	1		
AW 8	DO.	6300	2485	1		

WINDOW TYPES	

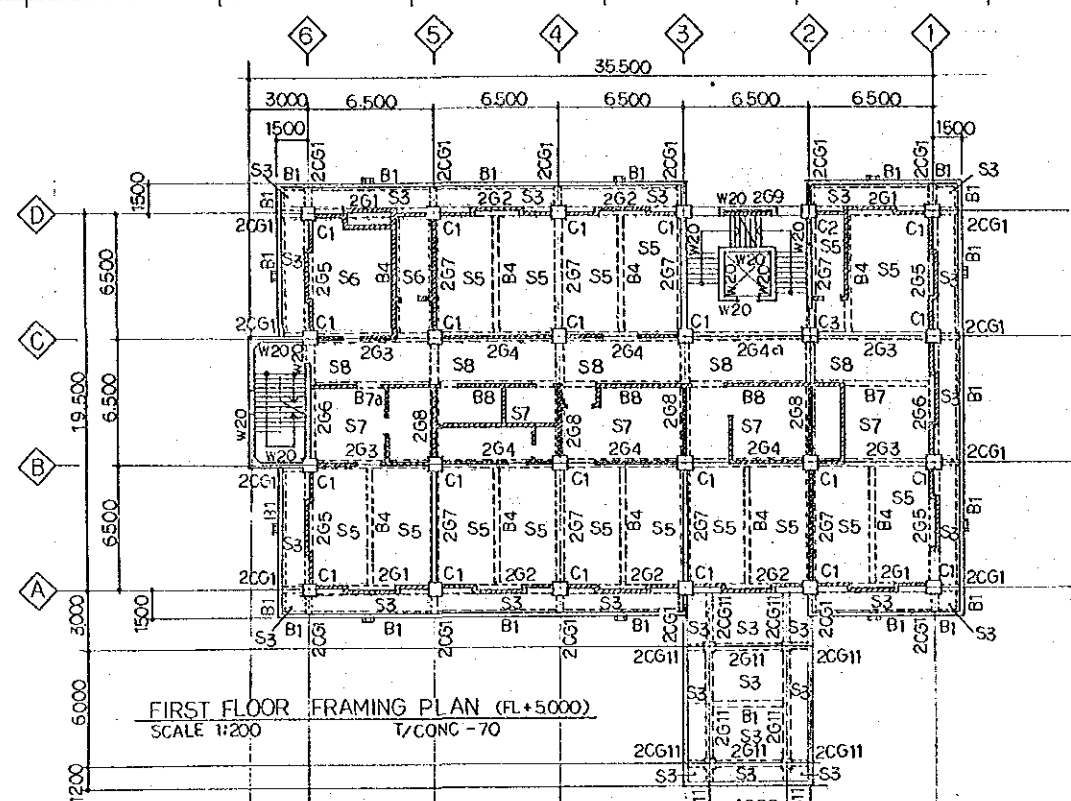
TARGET	DESCRIPTION	SIZE		QTY.	LOCATION	REMARKS
		WIDTH	HEIGHT			
SG 1	STEEL FIXED FULL LOUVER	1000	1585	2		

WINDOW TYPES	

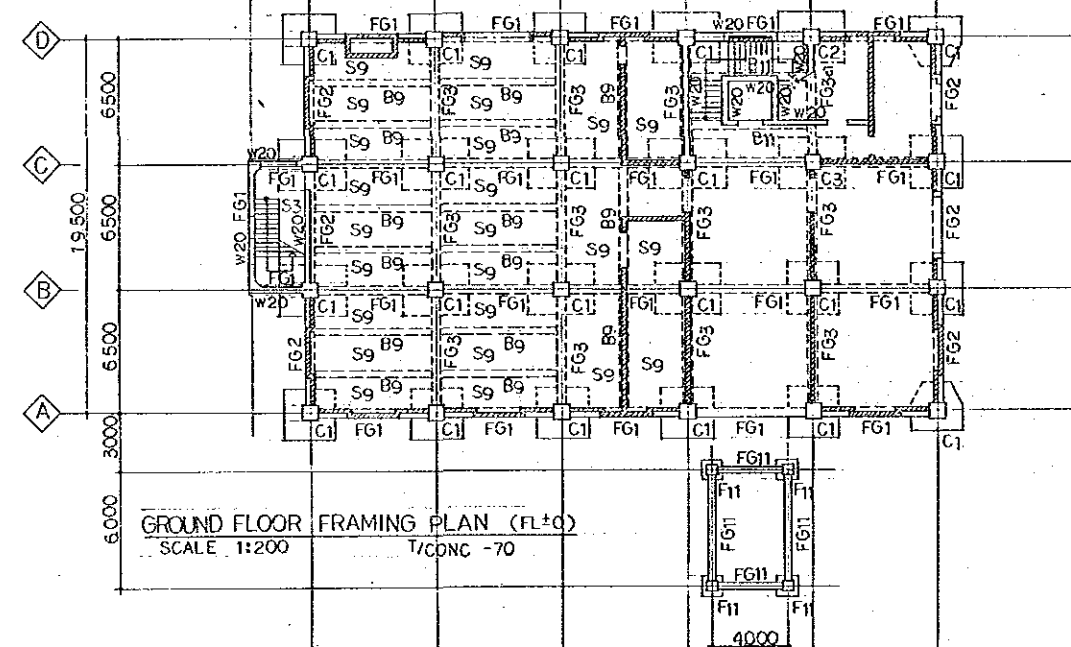
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 DOOR, WINDOW & LOUVER SCHEDULE
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 REVIEWED BY:
 CHECKED BY:
 DRAWN BY:

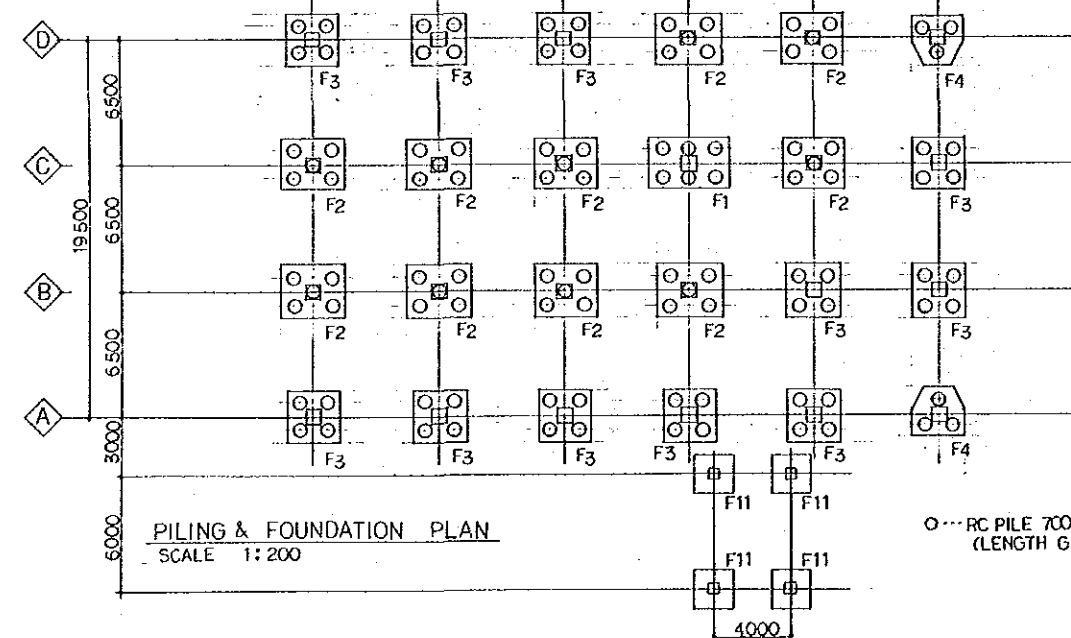
DRAWING NO. WAT-1507 SCALE DATE 10 JAN. 1990



FIRST FLOOR FRAMING PLAN (FL+5000)
SCALE 1:200
T/CONC -70

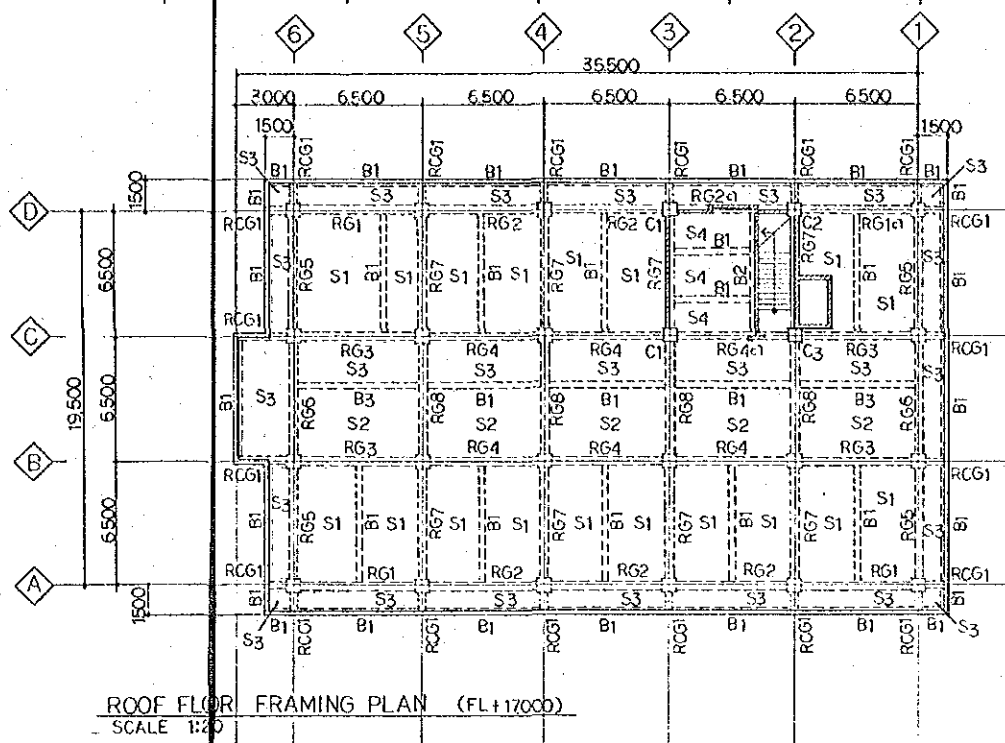


GROUND FLOOR FRAMING PLAN (FL±0)
SCALE 1:200
T/CONC -70

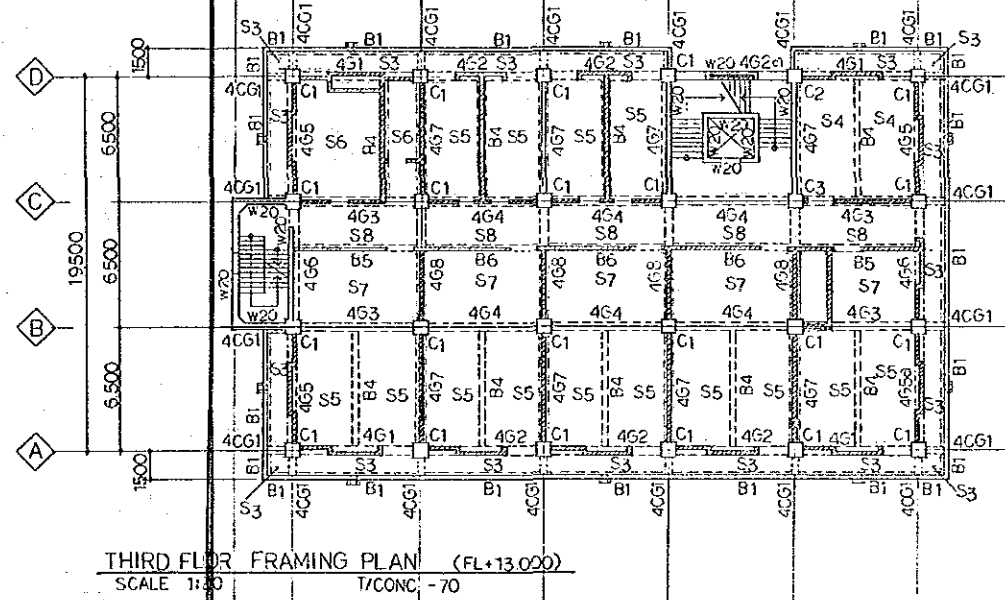


PILING & FOUNDATION PLAN
SCALE 1:200

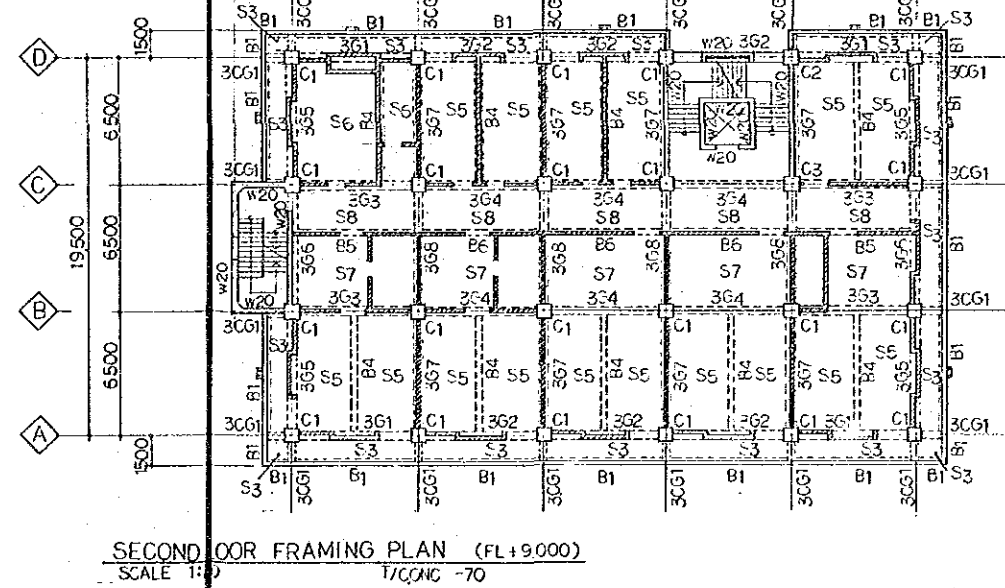
○--- RC PILE 700 ϕ (106PIECES)
(LENGTH 6L-16000)



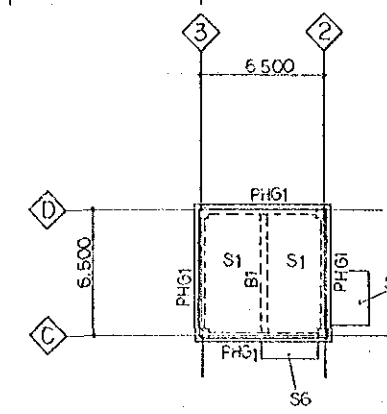
ROOF FLOOR FRAMING PLAN (FL+17000)
SCALE 1:200



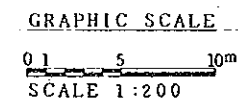
THIRD FLOOR FRAMING PLAN (FL+13000)
SCALE 1:200
T/CONC -70



SECOND FLOOR FRAMING PLAN (FL+9000)
SCALE 1:200
T/CONC -70



PENT HOUSE FLOOR FRAMING PLAN (FL+21200)
SCALE 1:200

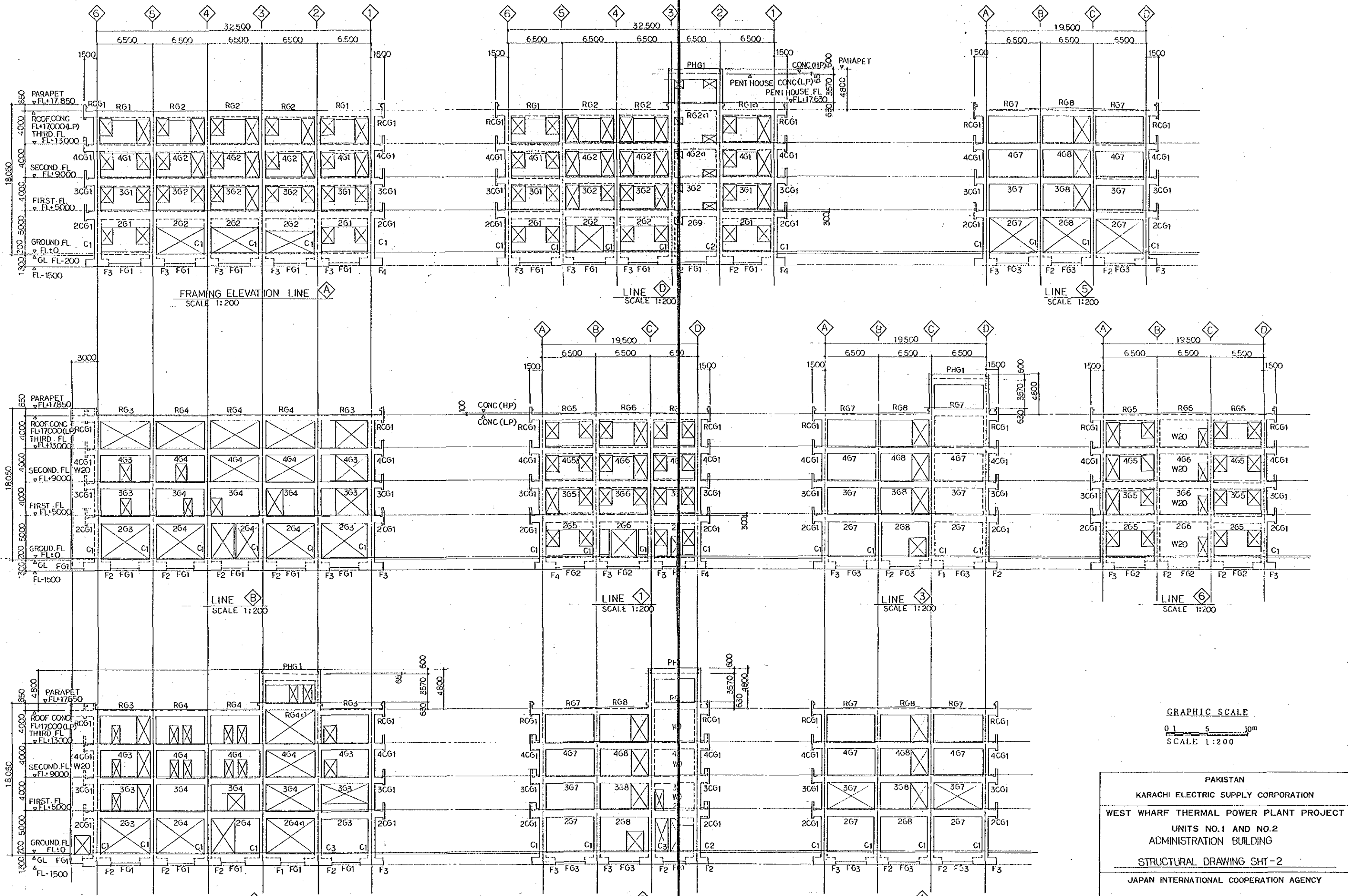


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STRUCTURAL DRAWING SHT -1

JAPAN INTERNATIONAL COOPERATION AGENCY

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ADMINISTRATION BUILDING
STRUCTURAL DRAWING SHT-2
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

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DRAWING NO. WAT-1509	SCALE 1:200	DATE 10 JAN. 1990	

BEAM LIST

MARK	B1			B2			B3			B4			B5			B6			B7 (B7a)			B8			B9			B10			B11
	END	CENTER	THROUGH	END	CENTER	THROUGH	OUT END	CENTER	THROUGH	END	CENTER	OUT END	CENTER	THROUGH	END	CENTER	OUT END	CENTER	THROUGH	END	CENTER	THROUGH	OUT END	CENTER	THROUGH	END	CENTER	THROUGH	THROUGH		
SECTION																															
TOP	3-#7	2-#7		3-#7	2-#7		2-#7	2-#7	5-#7	3-#7	5-#7	3-#7	3-#7	2-#3	5-#7	3-#7	3-#7	3-#7	6-#7	6-#7	3-#7	3-#7	4-#7	5-#7	5-#7	3-#7	5-#7	3-#7	7-#8		
WEB				2-#3										2-#3								2-#3					2-#3		2-#3		
BOTTOM	2-#7	5-#7		3-#7	6-#7		2-#7	3-#7	3-#7	3-#7	5-#7	3-#7	4-#7	7-#8	4-#7	3-#7	3-#7	4-#7	3-#7	4-#7	4-#7	4-#7	3-#7	5-#7	3-#7	3-#7	4-#7	4-#7	7-#8		
STIRRUP	#3 @ 200			#3 @ 150			#3 @ 200			#3 @ 200			#3 @ 200			#3 @ 200			#3 @ 200			#3 @ 150			#3 @ 150			#4 @ 200			

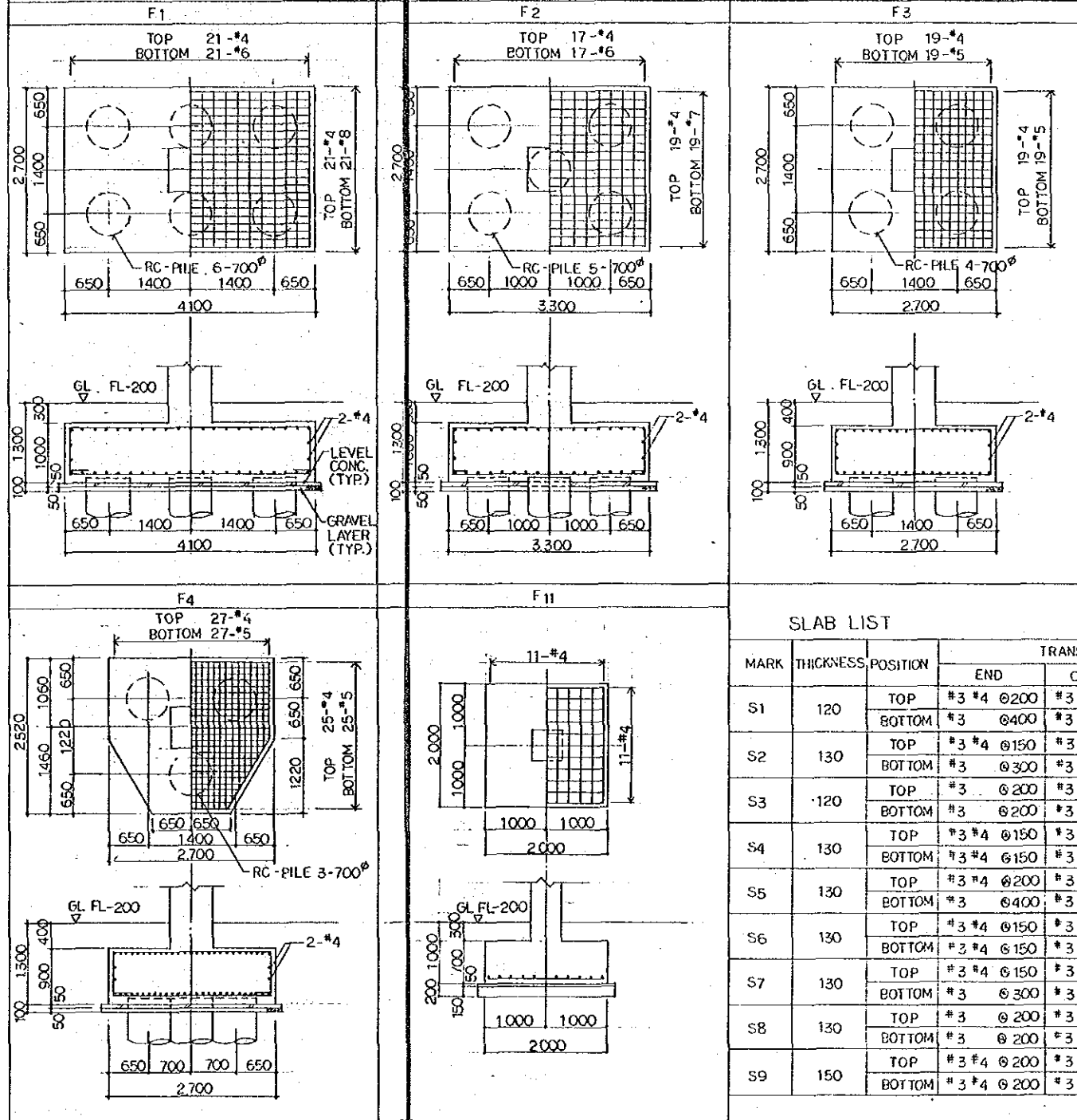
COLUMN LIST

MARK	4C1			4C2			4C3		
	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH
SECTION									
MAIN BAR	8-#8	8-#8	8-#8	8-#8	8-#8	8-#8	8-#8	8-#8	8-#8
HOOP	#4 @ 150	#4 @ 150	#4 @ 150	#4 @ 150	#4 @ 150	#4 @ 150	#4 @ 150	#4 @ 150	#4 @ 150

MARK	3C1			3C2			3C3		
	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH
SECTION									
MAIN BAR	8-#8	8-#8	8-#8	8-#8	8-#8	8-#8	8-#8	8-#8	8-#8
HOOP	#4 @ 100	#4 @ 100	#4 @ 100	#4 @ 100	#4 @ 100	#4 @ 100	#4 @ 100	#4 @ 100	#4 @ 100

MARK	2C1			2C2			2C3		
	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH	THROUGH
SECTION									
MAIN BAR	10-#8	10-#8	10-#8	10-#8	10-#8	10-#8	10-#8	10-#8	10-#8
HOOP	#4 @ 100	#4 @ 100	#4 @ 100	#4 @ 100	#4 @ 100	#4 @ 100	#4 @ 100	#4 @ 100	#4 @ 100

FOUNDATION LIST



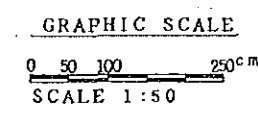
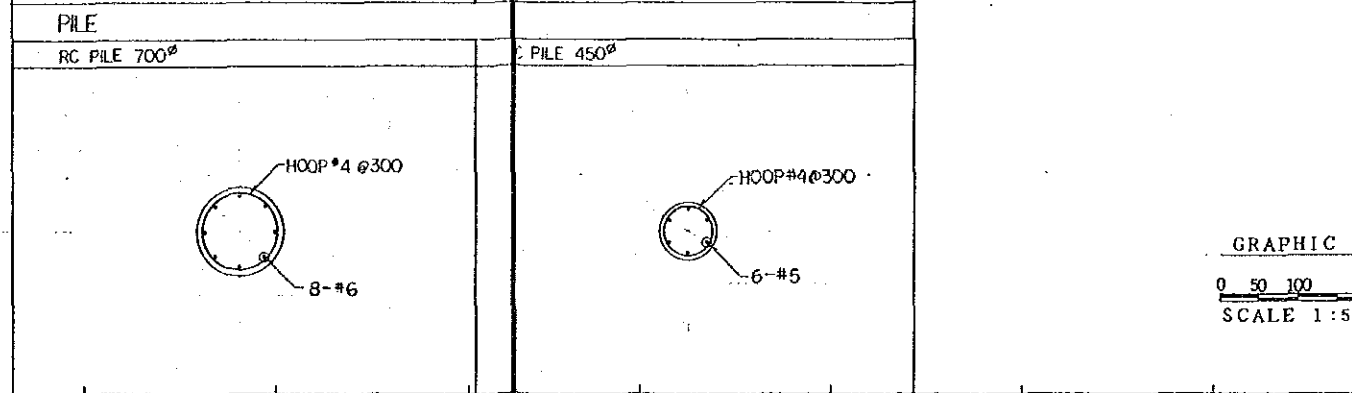
WALL LIST

MARK	THICKNESS	HORIZONTAL	VERTICAL	SECTION
W20	200	#3 @ 200 TO DUAL	#3 @ 200 TO DUAL	
W15	150	#3 @ 150 (SINGLE)	#3 @ 150 (SINGLE)	

SLAB LIST

MARK	THICKNESS	POSITION	TRANSVERSAL BAR			LONGITUDINAL BAR		
			END	CENTER	CORNER	END	CENTER	CORNER
S1	120	TOP	#3 #4 @ 200	#3 @ 400	#3 @ 250	#3 @ 200	#3 @ 400	#3 @ 250
		BOTTOM	#3 @ 400	#3 @ 200	#3 @ 250	#3 @ 400	#3 @ 200	#3 @ 250
S2	130	TOP	#3 #4 @ 150	#3 @ 300	#3 @ 250	#3 @ 150	#3 @ 300	#3 @ 250
		BOTTOM	#3 @ 300	#3 @ 150	#3 @ 250	#3 @ 200	#3 @ 150	#3 @ 250
S3	120	TOP	#3 @ 200	#3 @ 200	#3 @ 200	#3 @ 250	#3 @ 250	#3 @ 250
		BOTTOM	#3 @ 200	#3 @ 200	#3 @ 200	#3 @ 250	#3 @ 250	#3 @ 250
S4	130	TOP	#3 #4 @ 150	#3 #4 @ 150	#3 #4 @ 150	#3 @ 150	#3 @ 150	#3 @ 150
		BOTTOM	#3 #4 @ 150	#3 #4 @ 150	#3 #4 @ 150	#3 @ 150	#3 @ 150	#3 @ 150
S5	130	TOP	#3 #4 @ 200	#3 @ 400	#3 @ 250	#3 @ 200	#3 @ 400	#3 @ 250
		BOTTOM	#3 @ 400	#3 @ 200	#3 @ 250	#3 @ 400	#3 @ 200	#3 @ 250
S6	130	TOP	#3 #4 @ 150	#3 #4 @ 150	#3 #4 @ 150	#3 #4 @ 150	#3 #4 @ 150	#3 #4 @ 150
		BOTTOM	#3 #4 @ 150	#3 #4 @ 150	#3 #4 @ 150	#3 #4 @ 150	#3 #4 @ 150	#3 #4 @ 150
S7	130	TOP	#3 #4 @ 150	#3 @ 300	#3 @ 250	#3 @ 150	#3 @ 300	#3 @ 250
		BOTTOM	#3 @ 300	#3 @ 150	#3 @ 250	#3 @ 300	#3 @ 150	#3 @ 250
S8	130	TOP	#3 @ 200	#3 @ 200	#3 @ 200	#3 @ 250	#3 @ 250	#3 @ 250
		BOTTOM	#3 @ 200	#3 @ 200	#3 @ 200	#3 @ 250	#3 @ 250	#3 @ 250
S9	150	TOP	#3 #4 @ 200	#3 #4 @ 200	#3 #4 @ 200	#3 @ 200	#3 @ 200	#3 @ 200
		BOTTOM	#3 #4 @ 200	#3 #4 @ 200	#3 #4 @ 200	#3 @ 200	#3 @ 200	#3 @ 200

MARK	1C11		
	THROUGH	THROUGH	THROUGH
SECTION			
MAIN BAR	6-#8	6-#8	6-#8
HOOP	#4 @ 150	#4 @ 150	#4 @ 150



PAKISTAN
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ADMINISTRATION BUILDING
STRUCTURAL DRAWING SHIT-3
JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

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DRAWING NO. WAT-1510		SCALE 1:50	DATE 10 JAN. 1990

GIRDER LIST																							
PENT HOUSE FLOOR	MARK	PHG1			ROOF FLOOR	MARK	RG1, RG5, RG6, RG7			RG2		RG3		RG4			RG11		RG21, RG41		RCG1	RG8	
		END	CENTER				END	CENTER	END	CENTER	OUT END	CENTER	IN END	END	CENTER	OUT END	CENTER	IN END	END	CENTER	THROUGH	END	CENTER
	SECTION																						
	TOP	3-#8	2-#8			3-#8	2-#8	4-#8	2-#8	4-#8	2-#8	4-#8	4-#8	2-#8	3-#8	2-#8	4-#8	5-#8	3-#8	4-#8	4-#8	2-#8	
	WEB	2-#3				2-#3			2-#3		2-#3		2-#3			2-#3		2-#3		2-#3		2-#3	
	BOTTOM	2-#8				2-#8			3-#8		3-#8		2-#8			2-#8		4-#8		3-#8		2-#8	
	STIRRUP	□#3 @ 200				□#3 @ 200			□#3 @ 200		□#3 @ 200		□#3 @ 200			□#3 @ 200		□#4 @ 100		□#3 @ 200		□#3 @ 200	

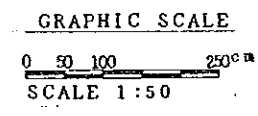
GIRDER LIST																				
THIRD FLOOR	MARK	4G1, 4G2, 4G4			4G3			4G5			4G6 (4G5a)			4G7		4G8		4CG1	4G21	
		END	CENTER	OUT END	CENTER	IN END	OUT END	CENTER	IN END	END	CENTER	OUT END	CENTER	IN END	END	CENTER	THROUGH	END	CENTER	
	SECTION																			
	TOP	5-#8	3-#8	6-#8	3-#8	5-#8	3-#8	2-#8	4-#8	4-#8	2-#8	4-#8	2-#8	5-#8	5-#8	3-#8	4-#8	5-#8	3-#8	
	WEB	2-#3			2-#3			2-#3			2-#3		2-#3		2-#3		2-#3		2-#3	
	BOTTOM	3-#8			3-#8			2-#8			2-#8		3-#8		4-#8		3-#8		3-#8	
	STIRRUP	□#4 @ 100			□#4 @ 100			□#3 @ 200			□#3 @ 125		□#3 @ 200		□#4 @ 100		□#3 @ 200		□#4 @ 100	

GIRDER LIST																				
SECOND FLOOR	MARK	3G1, 3G2			3G3			3G4			3G5			3G6		3G7		3G8		3CG1
		END	CENTER	CUT END	CENTER	IN END	END	CENTER	IN END	END	CENTER	OUT END	CENTER	IN END	END	CENTER	THROUGH	END	CENTER	
	SECTION																			
	TOP	6-#8	3-#8	8-#8	3-#8	6-#8	6-#8	3-#8	4-#8	2-#8	5-#8	3-#8	5-#8	3-#8	5-#8	6-#8	3-#8	4-#8	4-#8	
	WEB	2-#3			2-#3			2-#3			2-#3		2-#3		2-#3		2-#3		2-#3	
	BOTTOM	3-#8			4-#8			3-#8			3-#8		3-#8		3-#8		4-#8		3-#8	
	STIRRUP	□#4 @ 100			□#4 @ 100			□#3 @ 100			□#3 @ 150		□#3 @ 150		□#3 @ 150		□#4 @ 100		□#3 @ 200	

GIRDER LIST																						
FIRST FLOOR	MARK	2G1			2G2			2G3			2G4			2G5		2G6		2G7		2G8		
		OUT END	CENTER	IN END	END	CENTER	OUT END	CENTER	IN END	END	CENTER	OUT END	CENTER	IN END	END	CENTER	OUT END	CENTER	IN END	END	CENTER	
	SECTION																					
	TOP	8-#8	3-#8	7-#8	7-#8	3-#8	10-#8	4-#8	8-#8	7-#8	3-#8	6-#8	3-#8	5-#8	5-#8	3-#8	7-#8	3-#8	6-#8	6-#8	3-#8	
	WEB	2-#3			2-#3			2-#3			2-#3		2-#3		2-#3		2-#3		2-#3			
	BOTTOM	5-#8			4-#8			5-#8			4-#8		4-#8		3-#8		4-#8		3-#8		3-#8	
	STIRRUP	□#4 @ 100			□#3 @ 150			□#4 @ 100			□#3 @ 100		□#3 @ 150		□#3 @ 150		□#3 @ 150		□#3 @ 100			

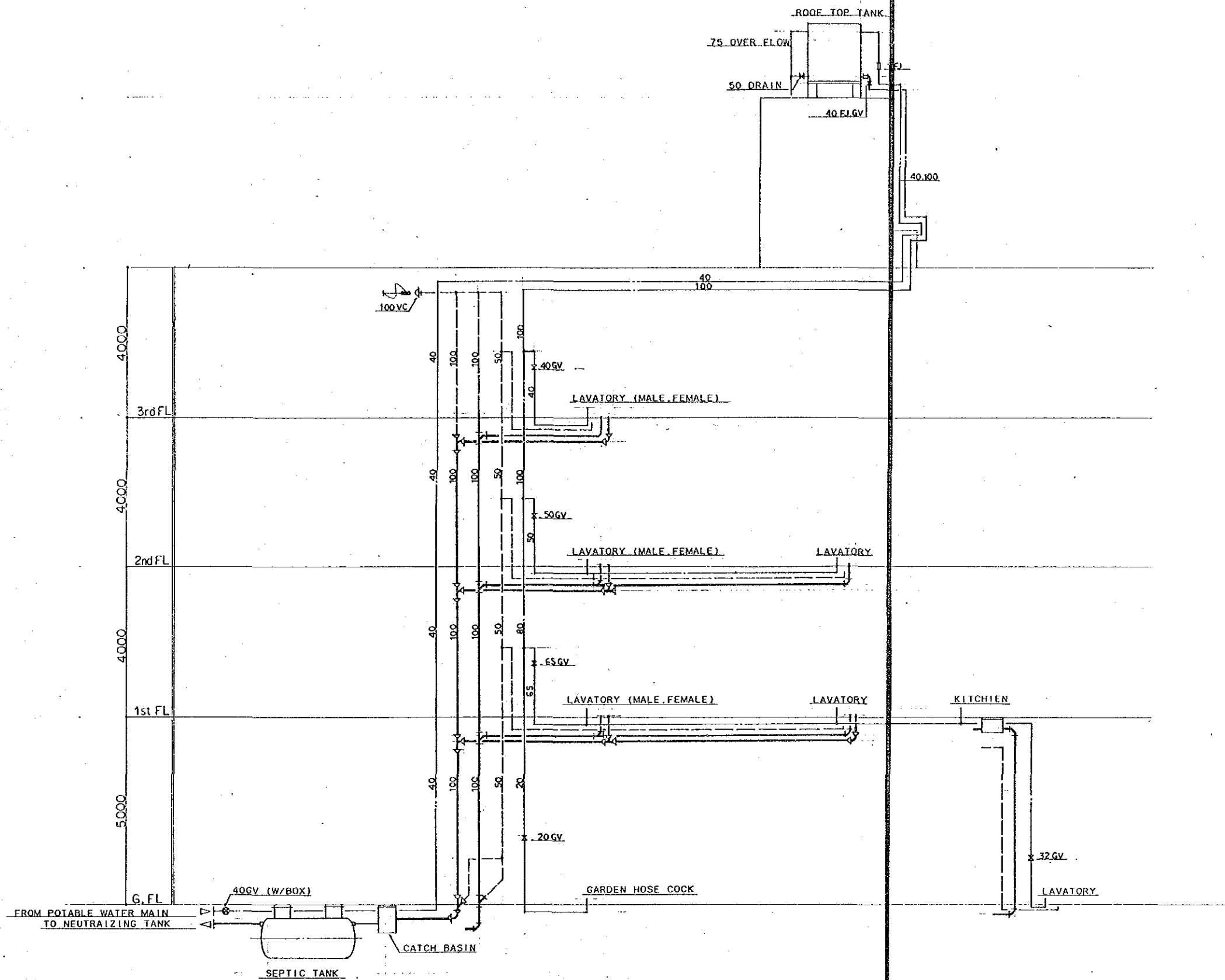
GIRDER LIST																					
FIRST FLOOR	MARK	2G9			2G11			2G12			2G13		2G14		2G15		2G16		2G17		
		END	CENTER	END	CENTER	THROUGH	THROUGH	THROUGH	END	CENTER	END	CENTER	END	CENTER	END	CENTER	END	CENTER	THROUGH		
	SECTION																				
	TOP	6-#8	3-#8	7-#8	3-#8	4-#7	4-#8	4-#7	4-#8	4-#7	4-#8	4-#7	3-#8	6-#8	3-#8	8-#8	3-#8	3-#7			
	WEB	2-#3			2-#3			2-#3		2-#3		2-#3		2-#3		2-#3		2-#3			
	BOTTOM	3-#8			4-#8			3-#8		4-#7		3-#8		4-#7		4-#8		6-#8		3-#7	
	STIRRUP	□#3 @ 150			□#3 @ 150			□#3 @ 200		□#3 @ 200		□#3 @ 200		□#4 @ 100		□#3 @ 150		□#4 @ 100		□#3 @ 200	

GROUND FLOOR	MARK	FG1			FG2		FG3		FG21		FG11
		END	CENTER	END	CENTER	END	CENTER	END	CENTER	THROUGH	
	SECTION										
	TOP	6-#8	3-#8	4-#8	3-#8	6-#8	3-#8	8-#8	3-#8	3-#7	
	WEB	2-#3			2-#3		2-#3		2-#3		2-#3
	BOTTOM	5-#8			5-#8		3-#8		4-#8		6-#8
	STIRRUP	□#4 @ 100			□#3 @ 150		□#3 @ 150		□#4 @ 100		□#3 @ 200



PAKISTAN
 KARACHI ELECTRIC SUPPLY CORPORATION
 WEST WHARF THERMAL POWER PLANT PROJECT
 UNITS NO.1 AND NO.2
 ADMINISTRATION BUILDING
 STRUCTURAL DRAWING SHT-4
 JAPAN INTERNATIONAL COOPERATION AGENCY
 TOKYO JAPAN

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LEGEND

SYMBOLS	DESIGNATION	SPECIFICATION
---	COLD WATER LIFT PIPING	POTABLE WATER, GALVANIZED CARBON STEEL
---	COLD WATER SUPPLY PIPING	- do - - do -
---	HOT WATER PIPING	COPPER
---	SOIL WATER PIPING	CAST IRON
---	WASTE WATER PIPING	GALVANIZED CARBON STEEL
---	VENT PIPING	- do -
GV	GATE VALVE	GV
FJ	FLEXIBLE JOINT	FJ
□	FAUCET	FOR COLD WATER
■	- do -	FOR HOT WATER
⊙	SHOWER	
⊙	FLOOR DRAIN	FD
⊙	CLEAN OUT	CO
VC	VENT CAP	VC
□	SOIL WATER BASIN	
⊠	RAIN WATER BASIN	

PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION

WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2

ADMINISTRATION BUILDING
PLUMBING EQUIPMENT PIPING SKELETON, LEGEND

JAPAN INTERNATIONAL COOPERATION AGENCY

TOKYO JAPAN

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PLUMBING PIPING SKELETON (not to scale)

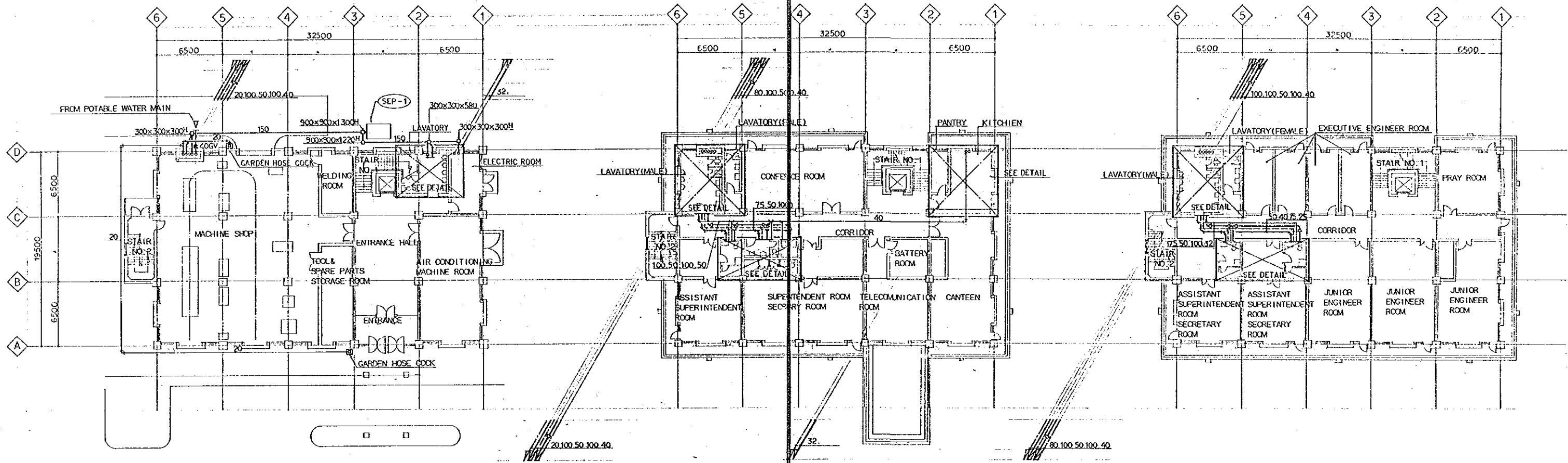
PLUMBING EQUIPMENT SCHEDULE

NO.	MACHINE NAME	SPECIFICATION	Q'TY	REMARKS
T - 1	ROOF TOP WATER TANK	POTABLE ELEVATED WATER TANK CAPACITY : 3.0m ³ DIMENSION : 2.0m x 1.5m x 1.5mH CONCRETE FOUNDATION : 500H	1	
SEP-1	SEPTIC TANK	F.R.P. CAPACITY : 2.0M ³	1	

PLUMBING AND SANITARY FIXTURES SCHEDULE

NO.	FIXTURE NAME	SPECIFICATION	ACCESSORIES	Q'TY	REMARKS
C - 1	WATER CLOSET	VITREOUS CHINA. WASH-DOWN CLOSED COUPLED	LOW TRIP W/INSULATING LINER AND HAND WASHING LID. W/ TRIP, SEAT AND COVER	3	
C - 2	WATER CLOSET	V.C WESTERN	- ditto -	12	
	ROLL PAPER HOLDER	PLASTIC MADE		15	
U - 1	URINAL	V.C WALL HANG.	INTEGR. TRAP, FLUSH VALVE, INLET SPUD	13	
L - 1	LAVATORY	V.C WALL HANG.	LAVATORY FAUCET, WALL SUPPLY w/STOP POP-UP WASTE w/P-TRAP, PEDESTAL	20	
	LIQUID SOAP HOLDER			20	
	MIRROR			20	
	SHOWER SET			4	
	WALL FAUCET	FOR KITCHEN AND KITCHENETTE SINK SWING SPOUT		2	
	GARDEN HOSE COCK	w/HOSE COUPLING	CAST IRON BOX	2	
FD- 1	FLOOR DRAIN	w/TRAP			
FD- 2	FLOOR DRAIN	WATER PROOF TYPE w/TRAP			
EH- 1	WATER HEATER	ELECTRIC HEATER, INSTANTNEOUS HEATING FLOOR ATAND HEATING CAPACITY : 2.5kw(1Ph-200V)	STRAIN PRESSURE REGULATOR, THERMOSTAT	4	
EH- 2	WATER HEATER	ELECTRIC HEATER, WALL MOUNTED. CAPACITY : 10 ² ELECTRIC OUTPUT : 1.5kW (1Ph-220V)		1	

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PLUMBING EQUIPMENT			
SANITARY FIXTURES SCHEDULE			
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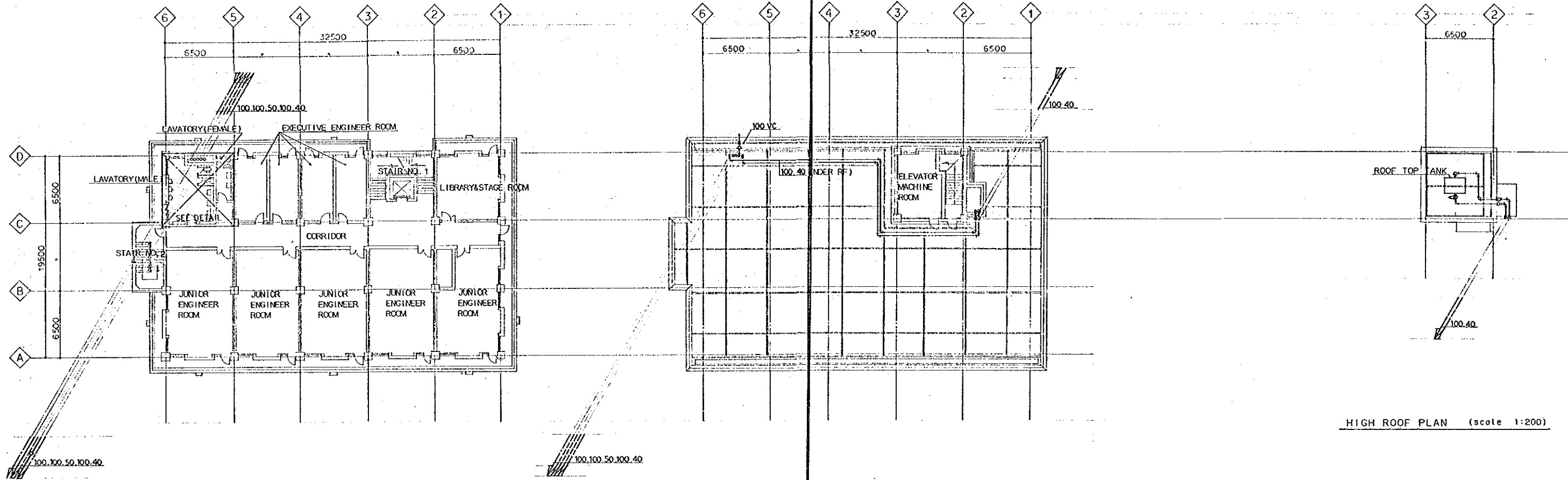


GROUND FLOOR PLAN (scale 1:200)

FIRST FLOOR PLAN (scale 1:200)

SECOND FLOOR PLAN (scale 1:200)

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KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
ADMINISTRATION BUILDING			
PLUMBING EQUIPMENT			
GROUND, FIRST, SECOND FLOOR PLAN			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
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DRAWING NO. WAT-1522	SCALE 1:200	DATE DEC 1989	

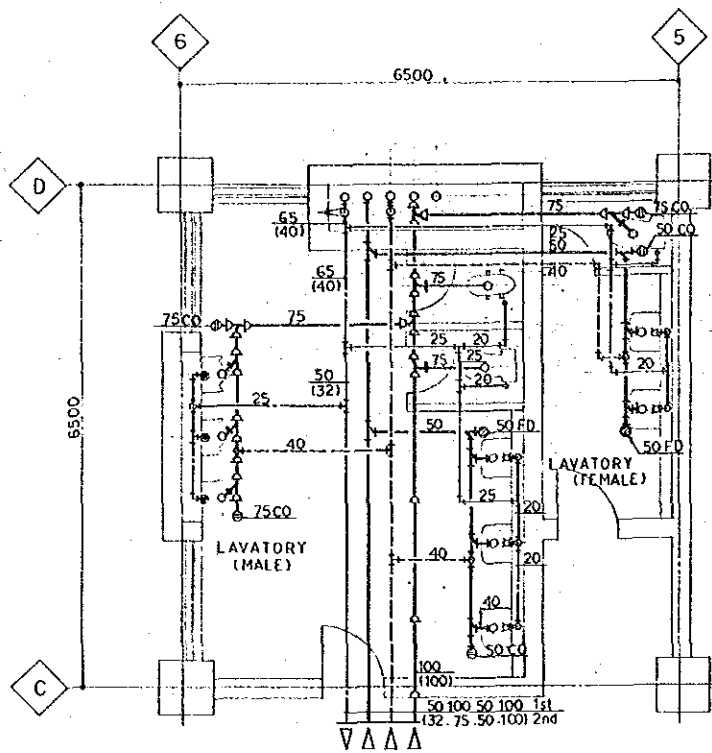


THIRD FLOOR PLAN (scale 1:200)

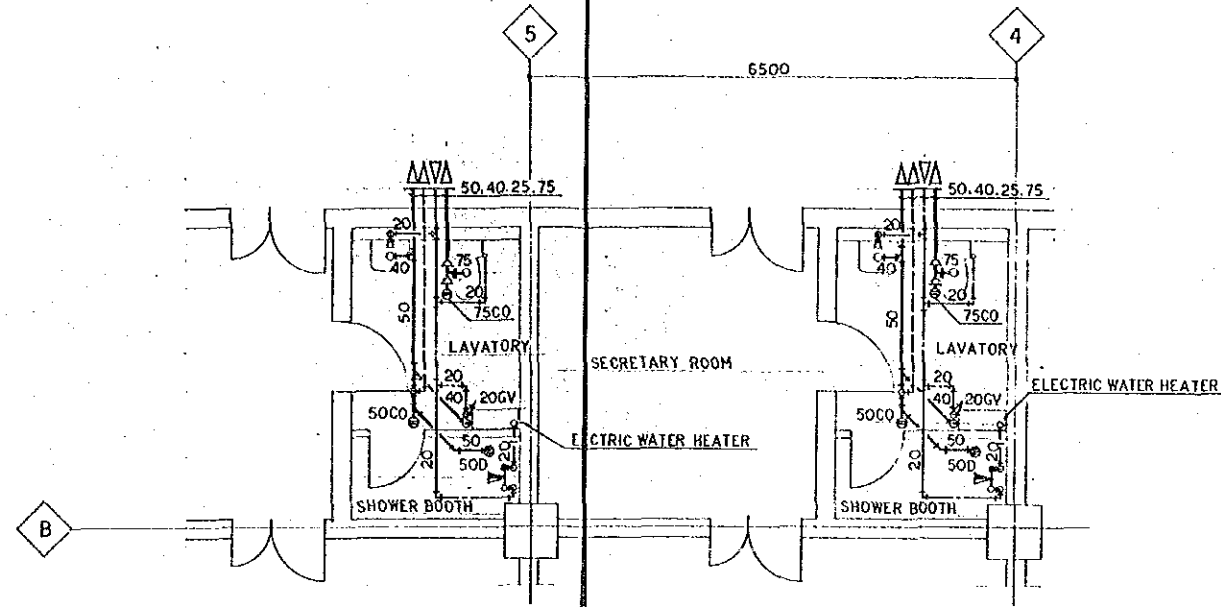
ROOF FLOOR PLAN (scale 1:200)

HIGH ROOF PLAN (scale 1:200)

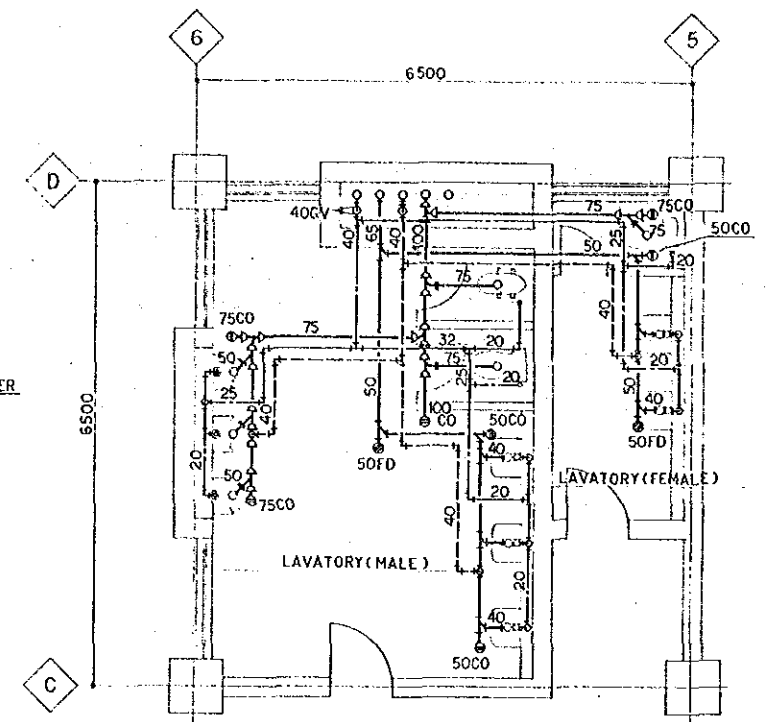
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UNITS NO.1 AND NO.2			
ADMINISTRATION BUILDING			
PLUMBING EQUIPMENT			
THIRD FLOOR, HIGH ROOF FLOOR PLAN			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
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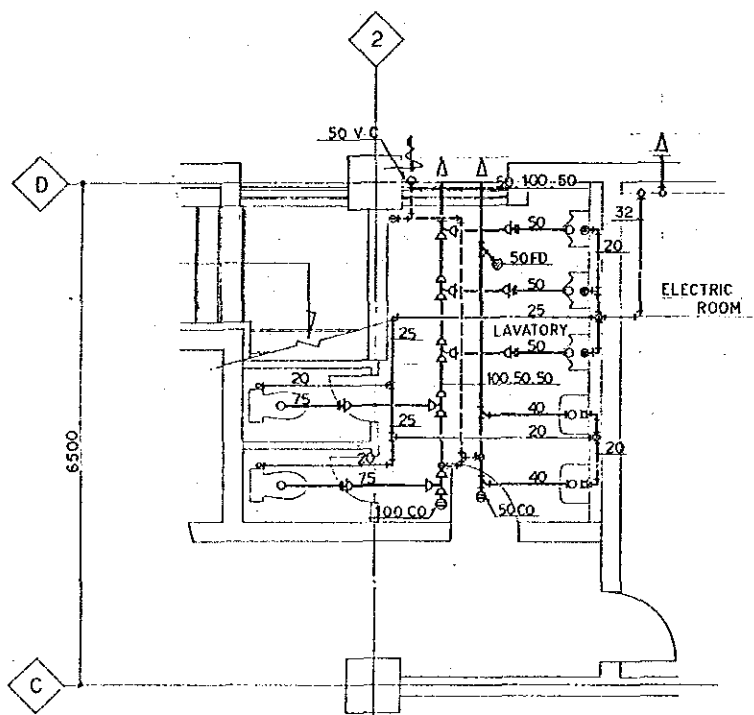
1st & 2nd FLOOR LAVATORY DETAIL PLAN 1:50
SEE SCHEMATIC DIAGRAM (B)



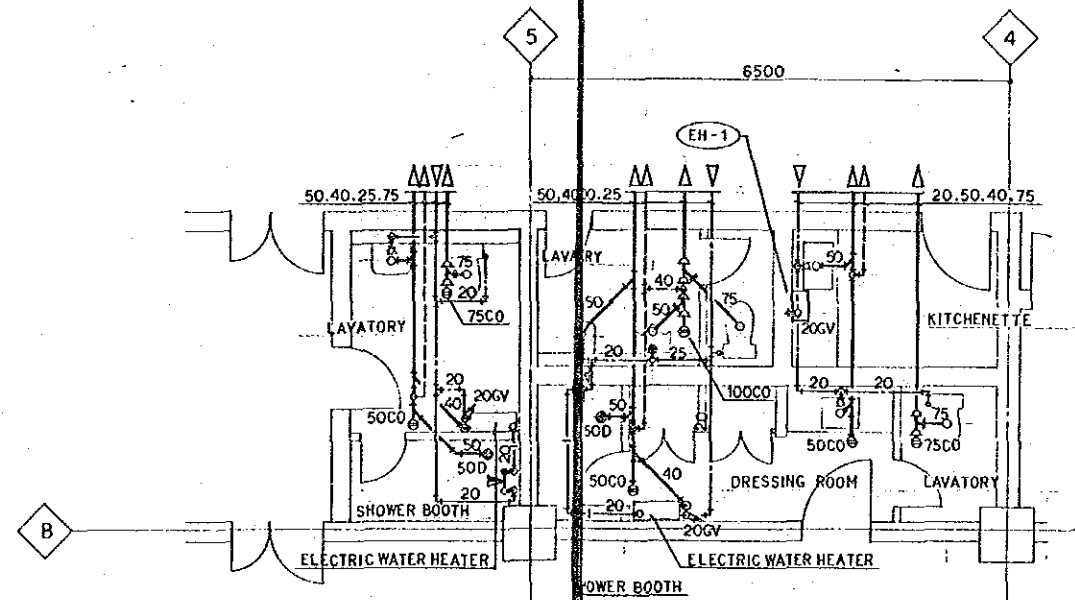
2nd FLOOR LAVATORY DETAIL PLAN 1:50
SEE SCHEMATIC DIAGRAM (D)



3rd FLOOR LAVATORY DETAIL PLAN 1:50
SEE SCHEMATIC DIAGRAM (E)

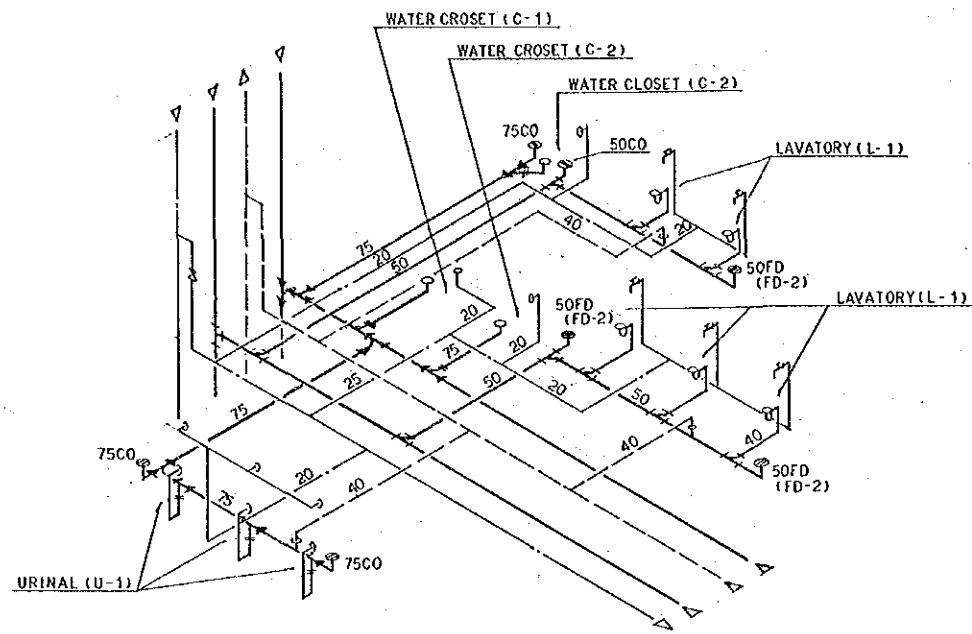


GROUND FLOOR LAVATORY DETAIL PLAN 1:50
SEE SCHEMATIC DIAGRAM (A)

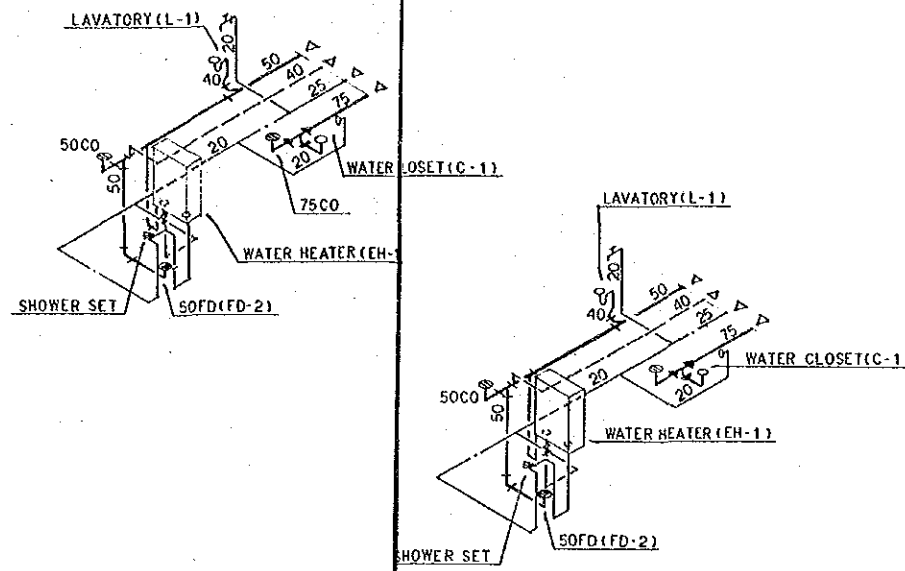


1st FLOOR LAVATORY DETAIL PLAN 1:50
SEE SCHEMATIC DIAGRAM (C)

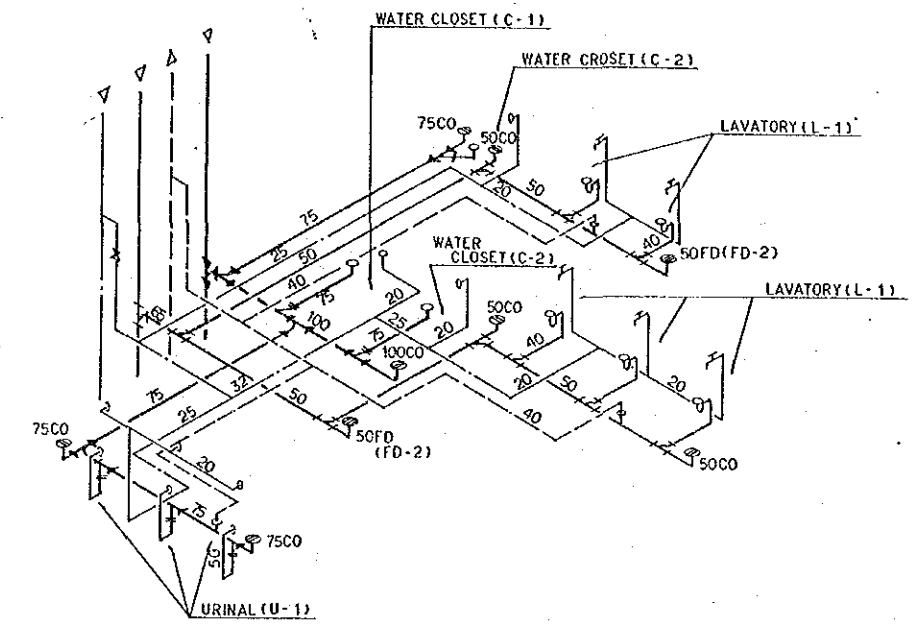
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WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
ADMINISTRATION BUILDING			
PLUMBING EQUIPMENT DETAIL PLAN			
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DRAWING NO. WAT-1524	SCALE 1:50	DATE DEC 1989	



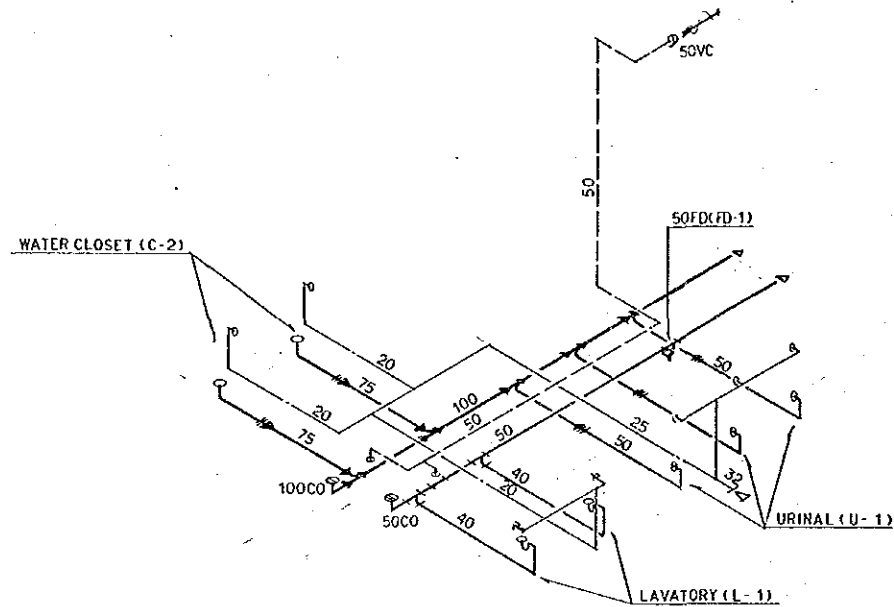
Ⓑ SCHEMATIC DIAGRAM
(1st , 2nd FLOOR)



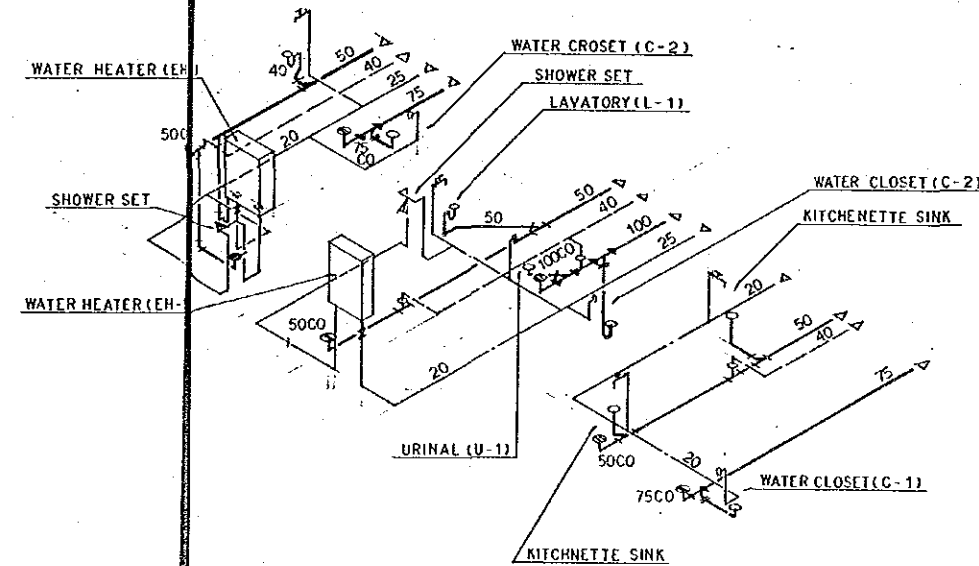
Ⓓ SCHEMATIC DIAGRAM
(2nd FLOOR)



Ⓔ SCHEMATIC DIAGRAM
(3rd FLOOR)



Ⓐ SCHEMATIC DIAGRAM
(GROUND FLOOR)



Ⓒ SCHEMATIC DIAGRAM
(1st FLOOR)

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ADMINISTRATION BUILDING			
PLUMBING EQUIPMENT			
SCHEMATIC DIAGRAM			
JAPAN INTERNATIONAL COOPERATION AGENCY			
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AIR COOLED PACKAGED AIR CONDITIONER EQUIPMENT SPECIFICATION LIST

MARK	TYPE	COOLING LOAD	INDOOR UNIT					AIR INLET		AIR OUTLET		OUTDOOR UNIT		RETURN AIR FILTERS	Qty	NOTES
			COMPRESSOR	FAN		MOTOR	AIR FLOW RATE	EXTERNAL STATIC PRESSURE	AIR FLOW RATE	DB	WB	AIR FLOW RATE	MOTOR			
PAC - 1	FLOOR (DUCT TYPE)	179,000kcal/H	27.34kw (3φ-380V)	39,900m ³ /H	70mmAq	15kw (3φ-380V)	DB:25.9 °C	WB:18.4 °C	DB:13.8 °C	WB:13.2 °C	25,800m ³ /H ×3	0.55kw×3, 0.75kw×3 (3φ-380V)	FACTORY-SUPPLIED WASHABLE TYPE	1		
PAC - 2	-do-	80,000kcal/H	27kw (3φ-380V)	20,050m ³ /H	70mmAq	5.5kw (3φ-380V)	DB:25.1 °C	WB:18.1 °C	DB:13.8 °C	WB:13.2 °C	15,600m ³ /H ×2	0.55kw×3 (3φ-380V)	-do-	1		

RETURN FAN

MARK	TYPE	FAN NO	AIR FLOW RATE	STATIC PRESSURE	FAN MOTOR (POWER)	ACCESSORIES	Qty	NOTES
RAF-1	CENTRIFUGAL	7	54,520m ³ /H	25 mmAq	15kw 3φ380V		1	

VENTILATOR EQUIPMENT SPECIFICATION LIST

MARK	TYPE	WHEEL DIAMETER	AIR FLOW RATE	STATIC PRESSURE	MOTIVE POWER	MOTOR	Qty	ACCESSORIES & NOTES
CF - 1	PROPELLER	500φ	3,750m ³ /H	5 mmAq	0.400kw	3φ - 380v	4	SUS WEATHER COVER, SHUTTER
CF - 2	-do-	400φ	2,100m ³ /H	5 mmAq	0.100kw	-do-	2	-do-
CF - 3	-do-	250φ	550m ³ /H	5 mmAq	0.025kw	-do-	1	-do-
CF - 4	AXIAL	NO.2	610m ³ /H	8 mmAq	40w	1φ - 220v	1	
PF - 1	PROPELLER	500φ	3,750m ³ /H	5 mmAq	0.400kw	3φ - 380v	4	SUS WEATHER COVER, SHUTTER
PF - 2	-do-	400φ	2,100m ³ /H	5 mmAq	0.100kw	-do-	2	-do-
PF - 3	-do-	400φ	1,800m ³ /H	5 mmAq	0.100kw	-do-	1	-do-
PF - 4	-do-	300φ	840m ³ /H	5 mmAq	0.050kw	-do-	1	-do-
PF - 5	-do-	250φ	550m ³ /H	5 mmAq	0.025kw	-do-	1	-do-
PF - 6	-do-	200φ	250m ³ /H		18w	1φ - 220v	1	-do-
VF - 1	AXIAL	NO.2	750m ³ /H	8 mmAq	40w	1φ - 220v	1	
VF - 2	-do-	NO.2	680m ³ /H	8 mmAq	40w	-do-	2	
VF - 3	-do-	NO.2	610m ³ /H	8 mmAq	40w	-do-	1	
VF - 4	CEILING	150φ	460m ³ /H	6 mmAq	62w	-do-	1	150φ VENT CAP
VF - 5	-do-	150φ	300m ³ /H	8 mmAq	46w	-do-	1	-do-
VF - 6	-do-	150φ	230m ³ /H	7 mmAq	35w	-do-	2	-do-
VF - 7	AXIAL	# 3	1,000m ³ /H	20 mmAq	270w	-do-	1	
VF - 8	CEILING	150φ	180m ³ /H	8 mmAq	35k	-do-	2	150φ VENT CAP
VF - 9	-do-	150φ	170m ³ /H	8 mmAq	35w	-do-	3	-do-
VF - 10	-do-	100φ	150m ³ /H	6 mmAq	25w	-do-	1	100φ VENT CAP
VF - 11	-do-	100φ	80m ³ /H	8 mmAq	13w	-do-	5	-do-
RF - 1	RANGE HOOD		700m ³ /H	3 mmAq	70w	1φ - 220v	1	SUS WEATHER COVER

GRAPHICAL SYMBOLS LIST

SYMBOLS	NAME
	SUPPLY AIR DUCT
	RETURN AIR DUCT
	OUTSIDE AIR DUCT
	EXHAUST AIR DUCT
	VOLUME DAMPER
	FIRE DAMPER
	NOISE REDUCATION
RG	RETURN GRILLE
OAG	OUTSIDE GRILLE
EAG	EXHAUST GRILLE
	REFRIGERANT PIPE
	DRAIN PIPE

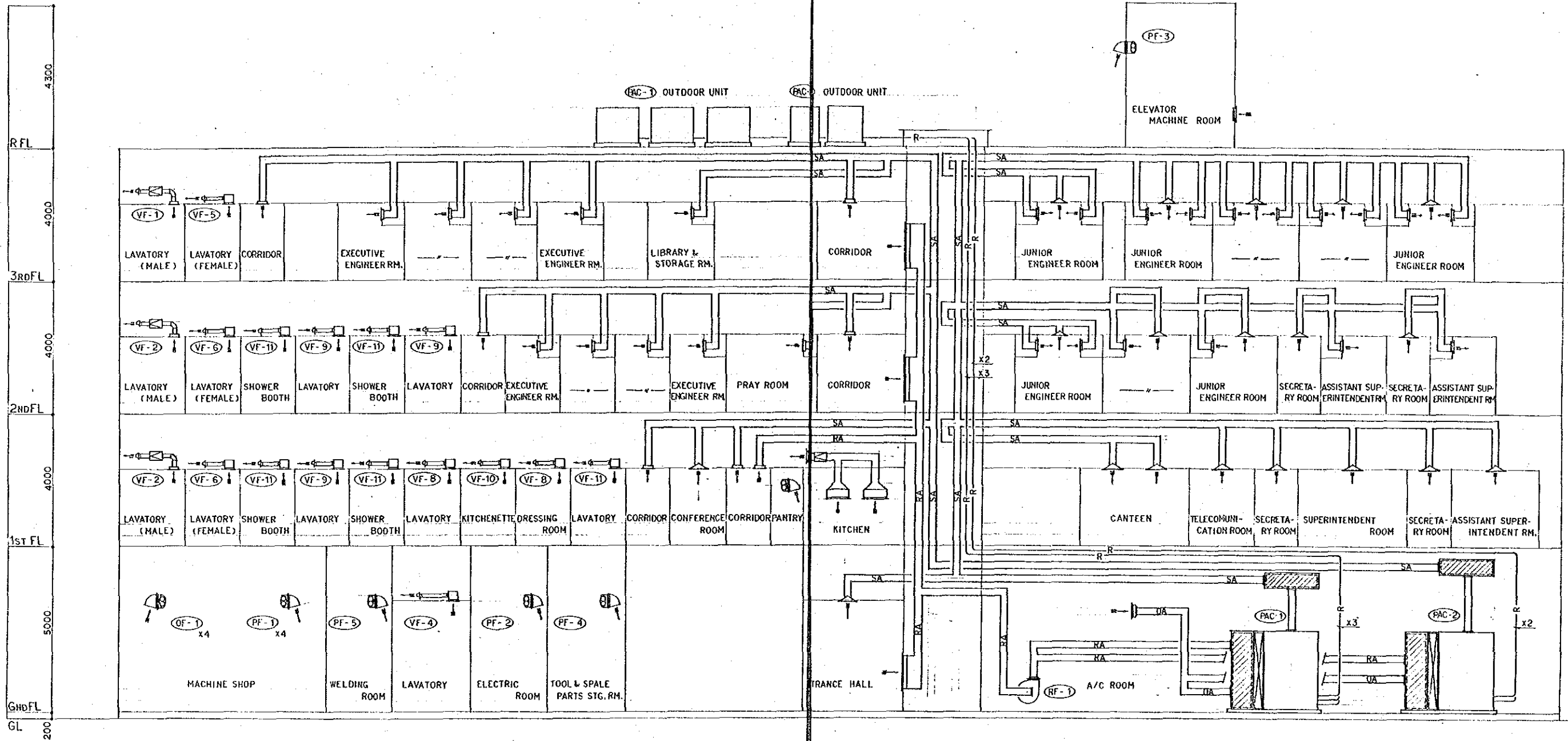
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KARACHI ELECTRIC SUPPLY CORPORATION

WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2

ADMINISTRATION BUILDING
A/C AND VENTILATION
EQUIPMENT SCHEDULE

JAPAN INTERNATIONAL COOPERATION AGENCY
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DUCTING AND PIPING SKELETON (not to scale)

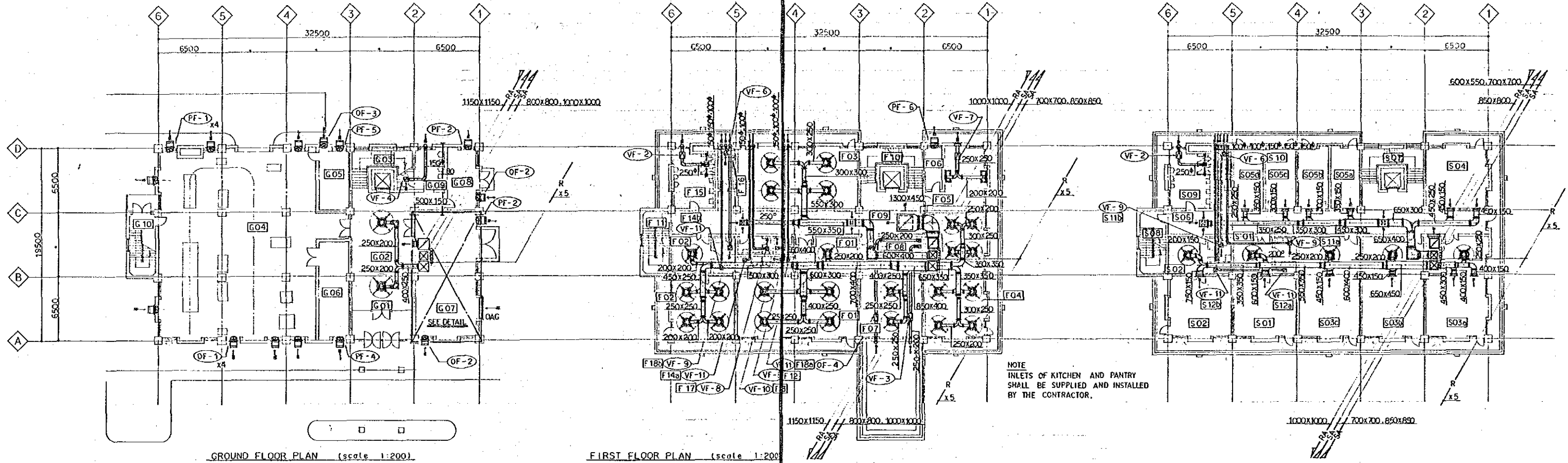
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WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
ADMINISTRATION BUILDING A/C AND VENTILATION DUCTING AND PIPING SKELETON			
JAPAN INTERNATIONAL COOPERATION AGENCY			
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N.O.	NAME
G 01	ENTRANCE
G 02	ENTRANCE HALL
G 03	STAIR NO.1
G 04	MACHINE SHOP
G 05	WELDING ROOM
G 06	TOOL & SPARE PARTS STORAGE ROOM
G 07	AIR CONDITIONING MACHINE ROOM
G 08	ELECTRIC ROOM
G 09	LAVATORY
G 10	STAIR NO.2
F 01	SUPERINTENDENT ROOM
	SECRETARY ROOM

F 02	ASSISTANT SUPERINTENDENT ROOM
	SECRETARY ROOM
F 03	CONFERENCE ROOM
F 04	CANTEEN
F 05	KITCHEN
F 06	PANTRY
F 07	TELECOMMUNICATION ROOM
F 08	BATTERY ROOM
F 09	CORRIDOR
F 10	STAIR NO.1
F 11	STAIR NO.2
F 12	DRESSING ROOM
F 13	KITCHENETTE
F 14a	SHOWER BOOTH
F 14b	SHOWER BOOTH
F 15	LAVATORY (MALE)

S 05a	EXECUTIVE ENGINEER ROOM
S 05b	EXECUTIVE ENGINEER ROOM
S 05c	EXECUTIVE ENGINEER ROOM
S 05d	EXECUTIVE ENGINEER ROOM
S 06	CORRIDOR
S 07	STAIR NO.1
S 08	STAIR NO.2
S 09	LAVATORY (MALE)
S 10	LAVATORY (FEMALE)
S 11a	LAVATORY
S 11b	LAVATORY
S 12a	SHOWER BOOTH
S 12b	SHOWER BOOTH

S 05d	EXECUTIVE ENGINEER ROOM
S 05c	EXECUTIVE ENGINEER ROOM
S 05b	EXECUTIVE ENGINEER ROOM
S 05a	EXECUTIVE ENGINEER ROOM
S 06	CORRIDOR
S 07	STAIR NO.1
S 08	STAIR NO.2
S 09	LAVATORY (MALE)
S 10	LAVATORY (FEMALE)
S 11a	LAVATORY
S 11b	LAVATORY
S 12a	SHOWER BOOTH
S 12b	SHOWER BOOTH



GROUND FLOOR PLAN (scale 1:200)

FIRST FLOOR PLAN (scale 1:200)

SECOND FLOOR PLAN (scale 1:200)

N.O.	TYPE	SIZE	AIR FLOW	QTY	CHAMBER SIZE
G02	DIFFUSER C-2	#30	830 CMH	2	
	RA GRILLE	550x300	1200 CMH	1	
G07	OA GRILLE	2000x500	4330 CMH	1	

N.O.	TYPE	SIZE	AIR FLOW	QTY	CHAMBER SIZE
F01	DIFFUSER C-2	#25	620 CMH	1	
		#30	895 CMH	4	
F02		#25	530 CMH	1	
		#25	523 CMH	4	
F03		#30	805 CMH	4	
F04	DIFFUSER C-2	#25	602 CMH	8	
F07		#30	815 CMH	2	
F09	REGISTER VHS	400x350	1090 CMH	2	
	RA GRILLE	1500x1500	16760 CMH	1	
F15	REGISTER HS	300x300	680 CMH	1	
F05	EA GRILLE	600x400	1000 CMH	1	
F08	REGISTER VHS	300x300	610 CMH	1	
	HS	300x300	610 CMH	1	
F05	FOOD	800x600x600	500 CMH	2	
F08	OA GRILLE	500x250	610 CMH	1	
	EA GRILLE	500x250	610 CMH	1	

N.O.	TYPE	SIZE	AIR FLOW	QTY	CHAMBER SIZE
S01	REGISTER VHS	700x150	1420 CMH	1	
	DIFFUSER C-2	#20	380 CMH	1	
S02	REGISTER VHS	850x150	1770 CMH	1	
	DIFFUSER C-2	#20	310 CMH	1	
S03a	REGISTER VHS	600x150	830 CMH	2	
	DIFFUSER C-2	#30	1000 CMH	1	
S03b	REGISTER VHS	650x150	1000 CMH	1	
	DIFFUSER C-2	#25	740 CMH	1	
S03c	REGISTER VHS	650x150	1000 CMH	1	
	DIFFUSER C-2	#25	660 CMH	1	
S04	REGISTER VHS	650x150	970 CMH	2	
S05a		600x150	670 CMH	1	
S05b		600x150	570 CMH	1	
S05c		600x150	570 CMH	1	
S05d		600x150	640 CMH	1	
S06		350x350	850 CMH	2	
	RA GRILLE	1300x1500	14780 CMH	1	
S09	REGISTER HS	300x300	680 CMH	1	

PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION

WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2

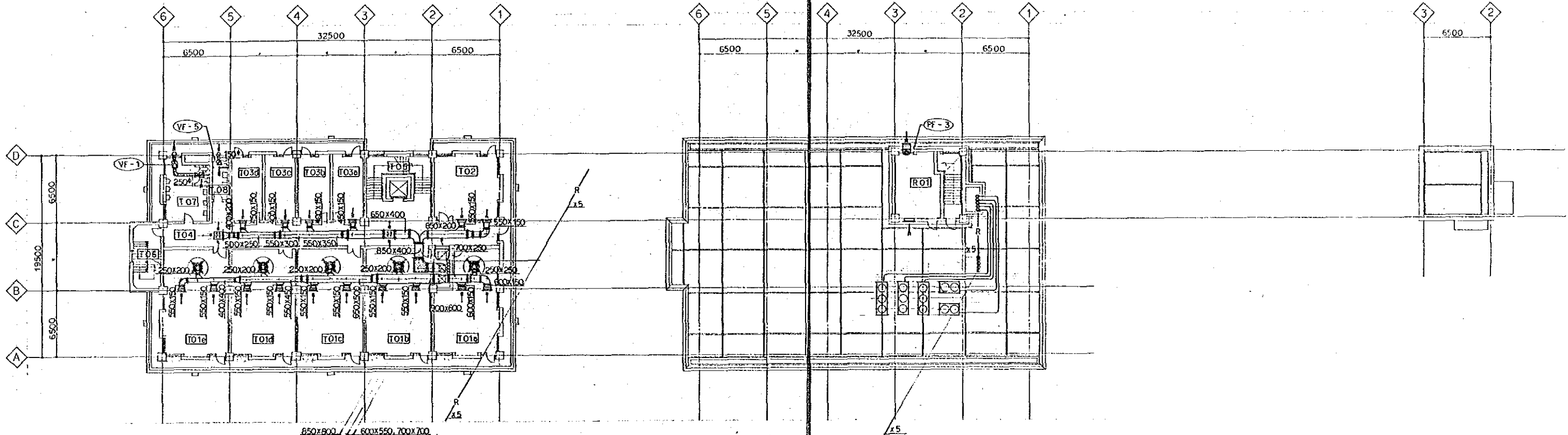
ADMINISTRATION BUILDING
A/C AND VENTILATION
GROUND, FIRST, SECOND FLOOR PLAN

JAPAN INTERNATIONAL COOPERATION AGENCY

TOKYO, JAPAN

APPROVED BY <i>K. Uppal</i>	REVIEWED BY <i>S. Jaffer</i>	CHECKED BY <i>J. Jaffer</i>	DRAWN BY <i>J. Jaffer</i>
DRAWING NO. WAT-1528	SCALE 1:200	DATE DEC 1989	

N.O.	NAME
T 01a	JUNIOR ENGINEER ROOM
T 01b	JUNIOR ENGINEER ROOM
T 01c	JUNIOR ENGINEER ROOM
T 01d	JUNIOR ENGINEER ROOM
T 01e	JUNIOR ENGINEER ROOM
T 02	LIBRARY & STORAGE ROOM
T 03a	EXECUTIVE ENGINEER ROOM
T 03b	EXECUTIVE ENGINEER ROOM
T 03c	EXECUTIVE ENGINEER ROOM
T 03d	EXECUTIVE ENGINEER ROOM
T 04	CORRIDOR
T 05	STAIR NO.1
T 06	STAIR NO.2
T 07	LAVATORY (MALE)
T 08	LAVATORY (FEMALE)
R 01	ELEVATOR MACHINE ROOM



THIRD FLOOR PLAN (scale 1:200)

ROOF FLOOR PLAN (scale 1:200)

NO	TYPE	SIZE	AIR FLOW	QTY	CHAMBER SIZE
T 01a	REGISTER VHS	650x150	1320 CMH	2	
	DIFFUSER C-2	#30	1000 CMH	1	
T 01b	REGISTER VHS	650x150	1005 CMH	2	
	DIFFUSER C-2	#25	700 CMH	1	
T 01c	REGISTER VHS	650x150	980 CMH	2	
	DIFFUSER C-2	#25	700 CMH	1	
T 01d	REGISTER VHS	650x150	1005 CMH	2	
	DIFFUSER C-2	#25	700 CMH	1	
T 01e	REGISTER VHS	650x150	1250 CMH	2	
	DIFFUSER C-2	#25	700 CMH	1	
T 02	REGISTER VHS	650x150	1250 CMH	2	
T 03a		600x150	960 CMH	1	
T 03b		600x150	840 CMH	1	
T 03c		600x150	840 CMH	1	
T 03d		600x150	920 CMH	1	
T 04	RA GRILLE	400x400	1330 CMH	2	
	RA GRILLE	1300x2300	22430 CMH	1	
T 07	REGISTER HS	350x350	750 CMH	1	

NO	TYPE	SIZE	AIR FLOW	QTY	CHAMBER SIZE
R 01	OA GRILLE	100x550	1800 CMH	1	

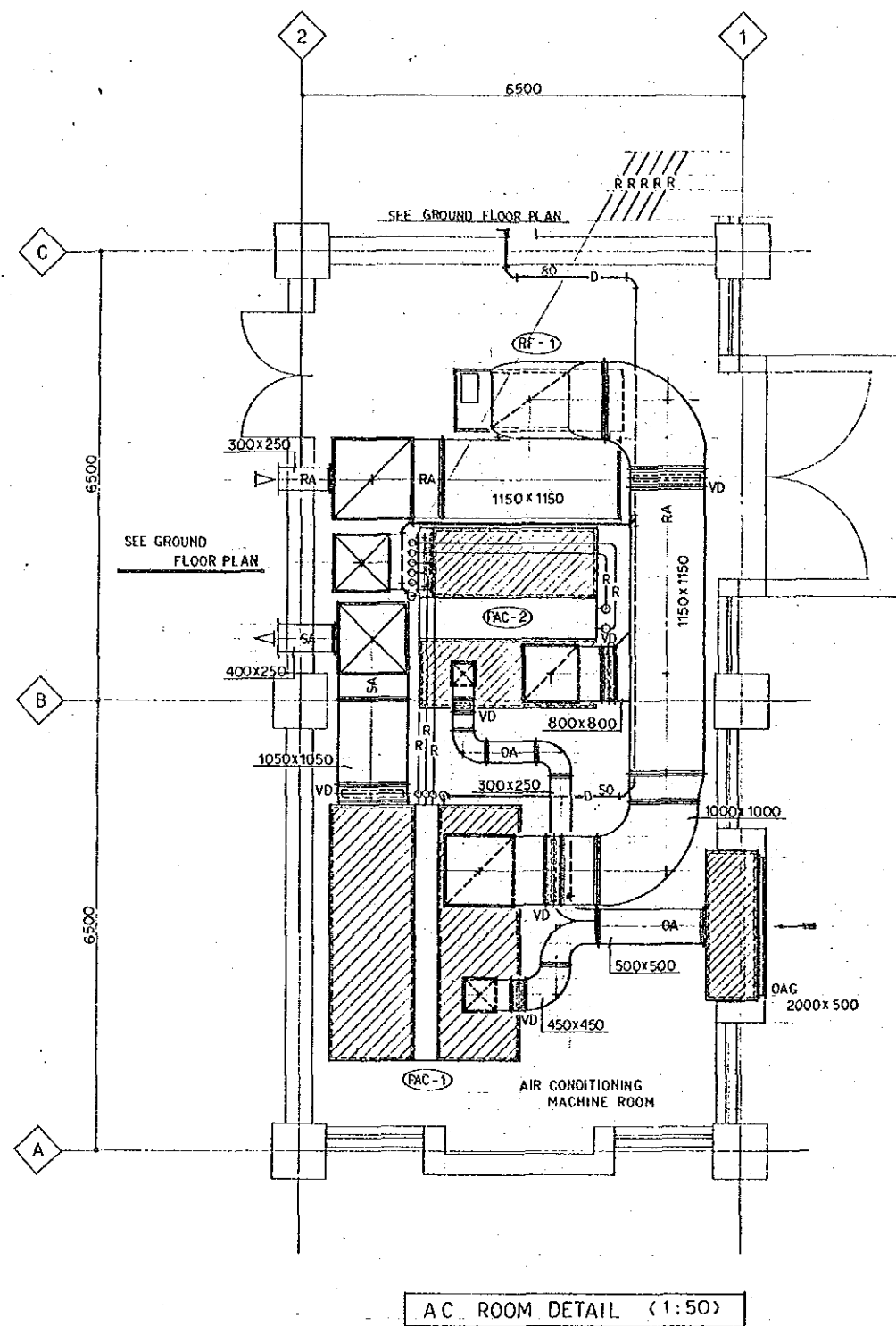
PAKISTAN
KARACHI ELECTRIC SUPPLY CORPORATION

WEST WHARF THERMAL POWER PLANT PROJECT
UNITS NO.1 AND NO.2

ADMINISTRATION BUILDING
A/C AND VENTILATION
THIRD ROOF FLOOR PLAN

JAPAN INTERNATIONAL COOPERATION AGENCY
TOKYO JAPAN

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KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
ADMINISTRATION BUILDING			
A/C AND VENTILATION			
AIR CONDITIONING MACHINE ROOM DETAIL PLAN			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
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DRAWING NO. WAT-1530	SCALE 1/50	DATE DEC 1989	

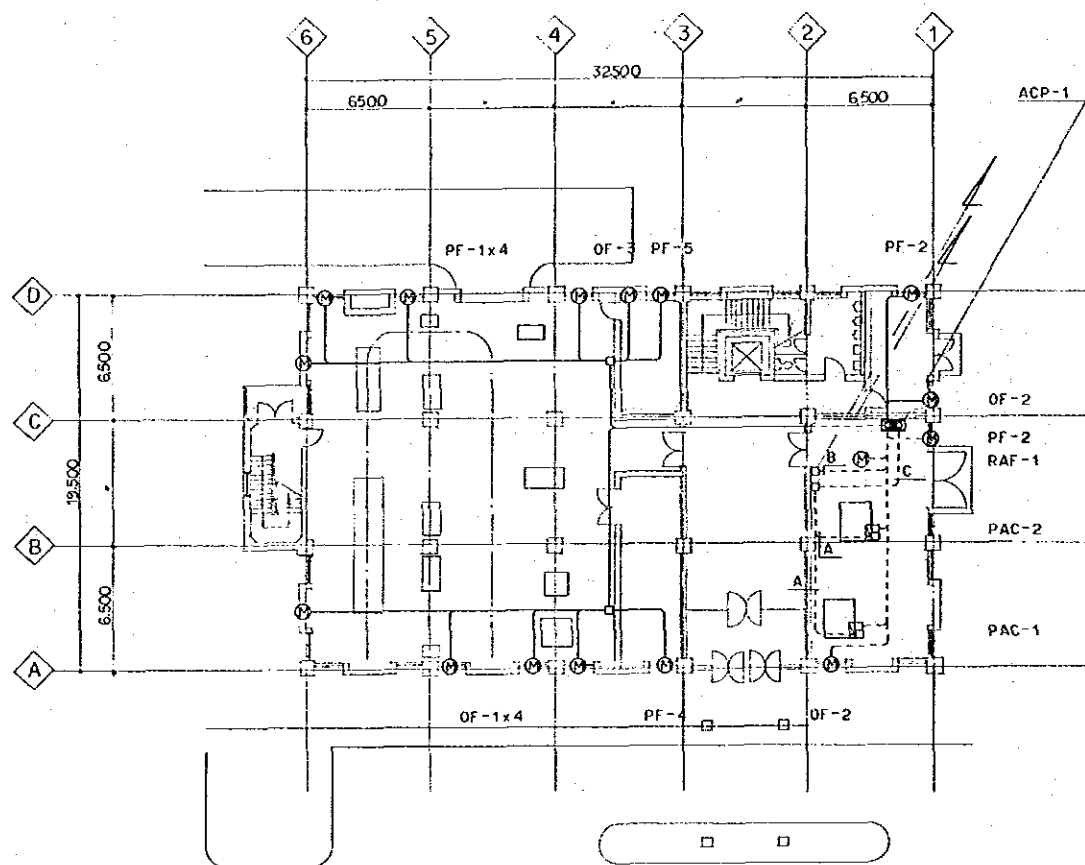
LEGEND 1

NAME	CAPACITY	WIRING	PIPING
ACP-1	3P380V		
PAC-1 (I.D.U)	15KW	1V14 ⁰ x 3 E5.5 ⁰ (31)	
PAC-1-1 (O.D.U)	28.5KW	1V22 ⁰ x 3 E14 ⁰ (36)	
PAC-1-2 (O.D.U)	36.25KW	1V38 ⁰ x 3 E22 ⁰ (36)	
PAC-2 (I.D.U)	5.5KW	1V2 ⁰ x 3 E5.5 ⁰ (25)	
PAC-2 (O.D.U)	28.65KW	1V22 ⁰ x 3 E14 ⁰ (36)	
RAF-1	15KW	1V14 ⁰ x 6 E5.5 ⁰ (39)	
OF-1(x4)	0.4KW	1V2 ⁰ x 3 E2 ⁰ (25)	
OF-2(x2)	0.1KW	1V2 ⁰ x 3 E2 ⁰ (25)	
OF-3	0.025KW	1V2 ⁰ x 3 E2 ⁰ (25)	
PF-1(x4)	0.4KW	1V2 ⁰ x 3 E2 ⁰ (25)	
PF-2(x2)	0.1KW	1V2 ⁰ x 3 E2 ⁰ (25)	
PF-3	0.1KW	1V2 ⁰ x 3 E2 ⁰ (25)	
PF-4	0.05KW	1V2 ⁰ x 3 E2 ⁰ (25)	
PF-5	0.025KW	1V2 ⁰ x 3 E2 ⁰ (25)	

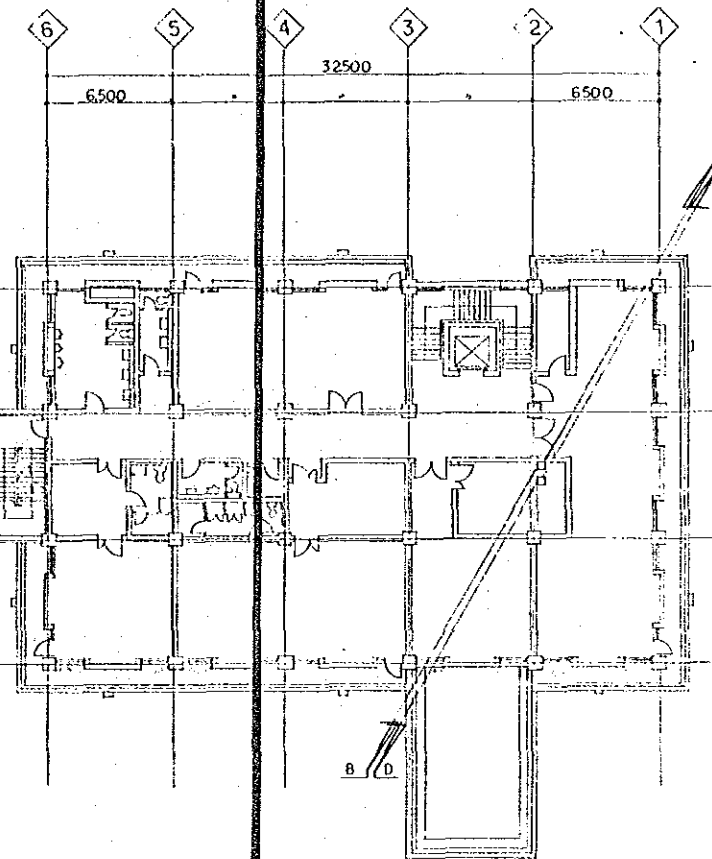
LEGEND 2

SYMBOL	MARK	WIRING	PIPING
○	T	1V2 ⁰ x	2 (19)
●	3P	1V2 ⁰ x	3 (16)

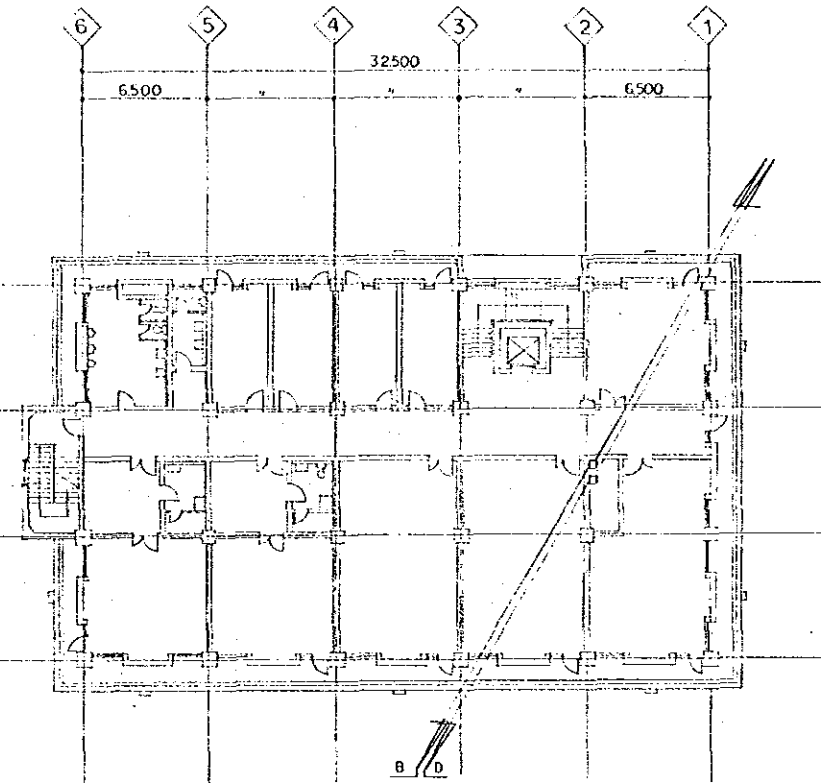
-A-			
1V2 ⁰	x	5 (25)	DOOR UNLT
-B-			
1V28 ⁰	x	3 E14 ⁰ (39) x 2	1.2 (O.D.U)
1V38 ⁰	x	3 E22 ⁰ (51)	1.1 (O.D.U)
1V2 ⁰	x	3 E2 ⁰ (25)	3
-C-			
1V2 ⁰	x	3 (19)	
-D-			
1V2 ⁰	x	10 (31)	O.U. x 2
1V2 ⁰	x	5 (25)	T



GROUND FLOOR PLAN (scale 1:200)



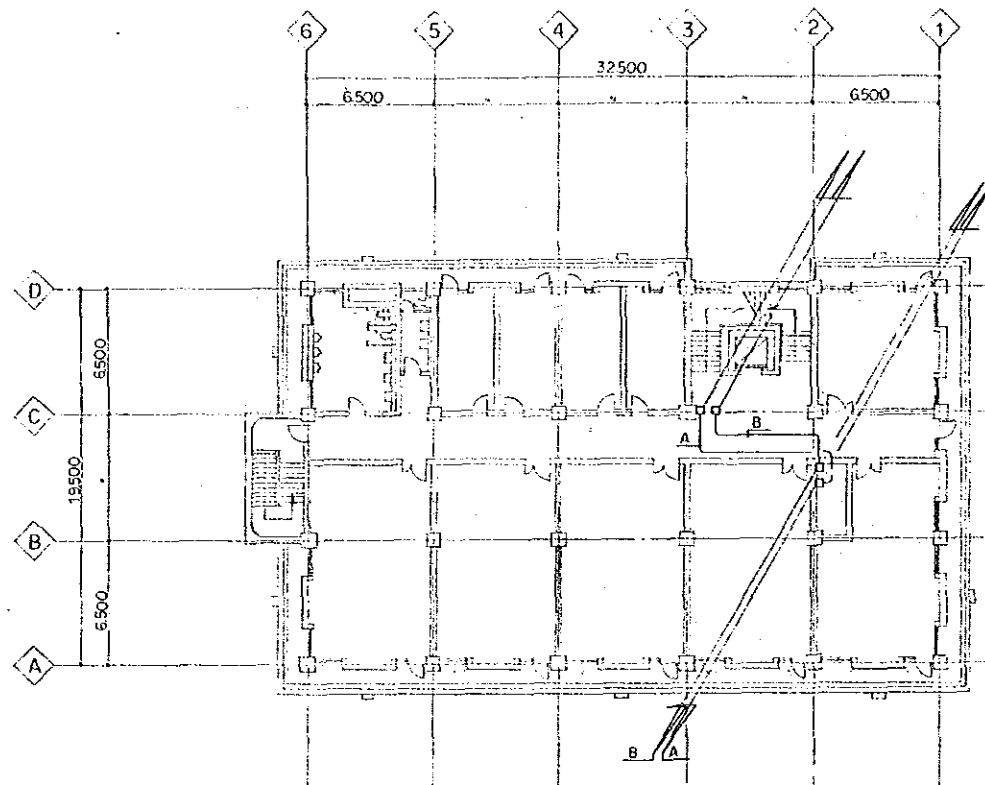
FIRST FLOOR PLAN (scale 1:200)



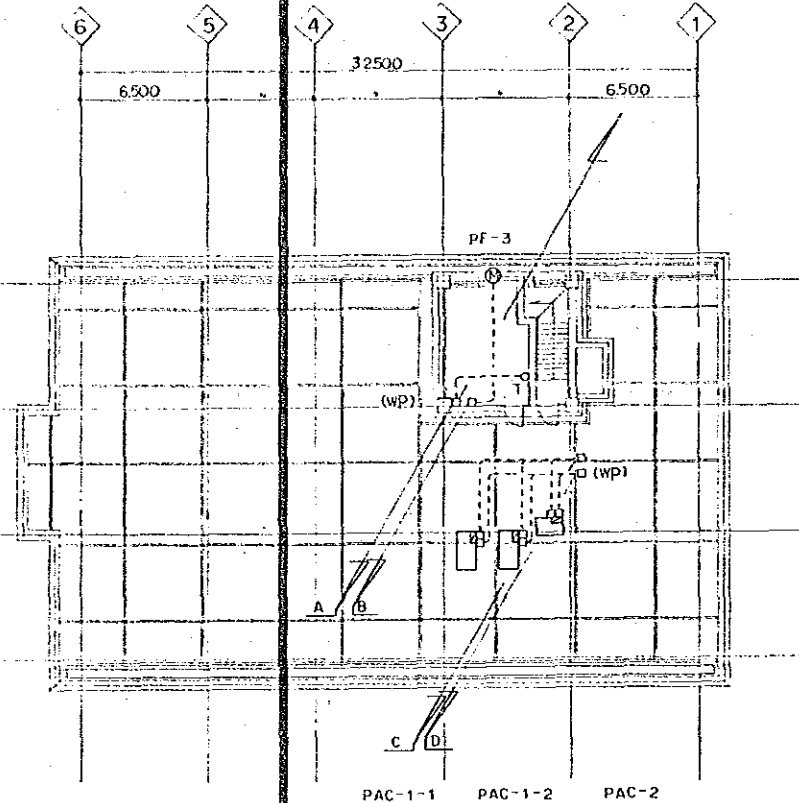
SECOND FLOOR PLAN (scale 1:200)

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KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
ADMINISTRATION BUILDING			
AUTOMATIC CONTROL & SECONDARY WIRING			
GROUND, FIRST, SECOND FLOOR PLAN			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
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DRAWING NO.	SCALE	DATE	
WAT-1531	1:200	DEC 1989	

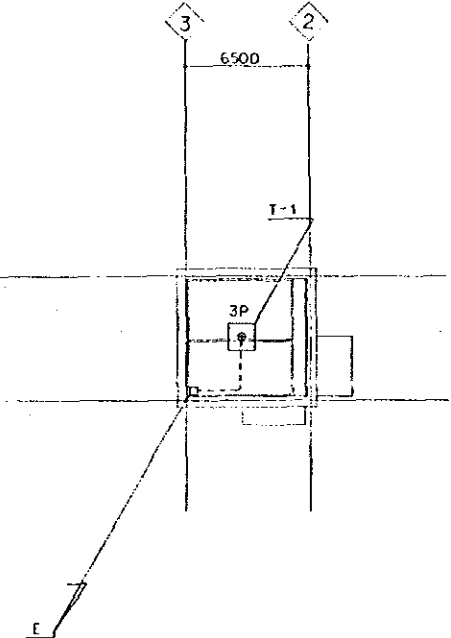
-A-	1V2 ⁰	x	5 (25)	3P, 1
-B-	1V2 ⁰	x	3 E2 ⁰ (25)	PF-3
-C-	1V28 ⁰	x	3 E14 ⁰ (39)	x2 PAC-1-2 (O.D.U)
	1V38 ⁰	x	3 E22 ⁰ (51)	PAC-1 (O.D.U)
-D-	1V2 ⁰	x	10 (31)	1.O.Ux2
-E-	1V2 ⁰	x	3 (19)	3P



THIRD FLOOR PLAN (scale 1:200)



ROOF FLOOR PLAN (scale 1:200)



HIGH ROOF PLAN (scale 1:200)

PAKISTAN			
KARACHI ELECTRIC SUPPLY CORPORATION			
WEST WHARF THERMAL POWER PLANT PROJECT			
UNITS NO.1 AND NO.2			
ADMINISTRATION BUILDING AUTOMATIC CONTROL & SECONDARY WIRING THIRD FLOOR PLAN			
JAPAN INTERNATIONAL COOPERATION AGENCY			
TOKYO JAPAN			
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DRAWING NO. WAT-1532	SCALE 1:200	DATE	DATE DEC 1989

