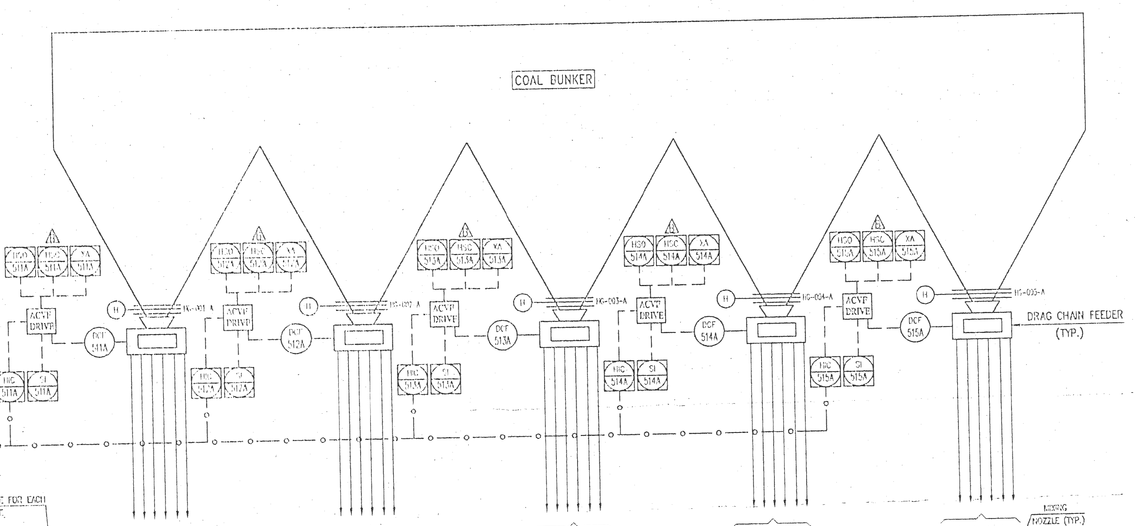
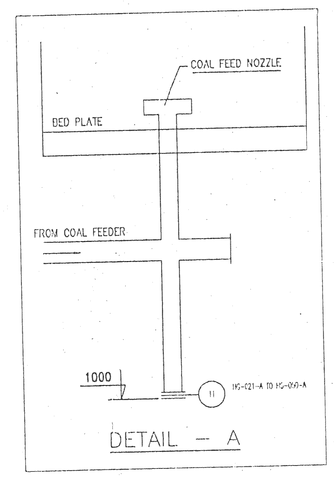
DO NOT SCALE
IF IN DOUBT, ASK





NOTES

- UNLESS OTHERWISE MENTIONED SCOPE OF SUPPLY SHALL BE AS PER CONTRACT.
- FOR VALVE SYMBOLS REFER SD-02-0105
- FOR LINE SYMBOL REFER SD-02-0106
- FOR EQUIPMENT SYMBOLS REFER SD-01-0115
- SCOPE-

TBW=THERMAX BABCOCK & WILCOX'S SCOPE.
C=CLIENT'S SCOPE.

REFERANCE DRAWING NOS.

1) P & I DIAGRAM FOR STEAM & WATER _ D12-0FB-1450P
2) P & I DIAGRAM FOR DEAERATOR, FEED & DOSING _ D12-1FB1-3091P
3) P & I DIAGRAM FOR AIR & GAS _ D12-0FB-1452P
4) P & I DIAGRAM FOR START UP OIL FIRING SYSTEM _ D12-2FB-2541P
5) P & I DIAGRAM FOR ASH HANDLING SYSTEM _____(LATER)
6) P & I DIAGRAM FOR ESP _____(LATER)

SYMBOLS FOR LINES

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	STEAM LINE		PROCESS MEASURING LINE
	FEED WATER LINE		CHEMICAL DOSING LINE
	DRAIN LINE		ELECTRICAL SIGNAL LINE
	PNEUMATIC LINE		CAPILLARY
	COMBUSTION AIR LINE		COMPUTER SIGNAL BUS LINE
	COOLING WATER LINE		
	FLUE GAS		

SYMBOLS FOR VALVES

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	GATE		COCK
	GLOBE		SAFETY VALVE
	NON RETURN VALVE		
	AUTO RECIRCULATION VALVE		VENT
	STRAINER		DRAIN
	SILENCER		PRV
	NEEDLE VALVE		TDV VALVE
	EXPANSION BELLOW		DAMPER
M	MOTORISED		KNIFE/SLIDING GATE
H	HAND OPERATED		

P & ID FOR ONE BOILER IS SHOWN, SECOND BOILER IS TYPICAL. TAG NO. WILL END WITH B INSTEAD OF A.

⚠ ALL THE INSTRUMENTS WILL HAVE A PREFIX 50 FOR TAG NUMBERS.

50 - INSTRUMENT
XA - ALARM
511 - TAG NO.
A - BOILER NO. 1 (PA0171)

50 - INSTRUMENT
XA - ALARM
511 - TAG NO.
B - BOILER NO. 2 (PA0172)

REFER AIR & FLUE GAS P&ID DRG. NO. D12-0FB-1452P

AIR FROM FD FAN BEFORE APH DRG. NO. D12-0FB-1452P

DUCT FROM PA. FAN

AIR FROM FD FAN EXPOSE AIR HEATER

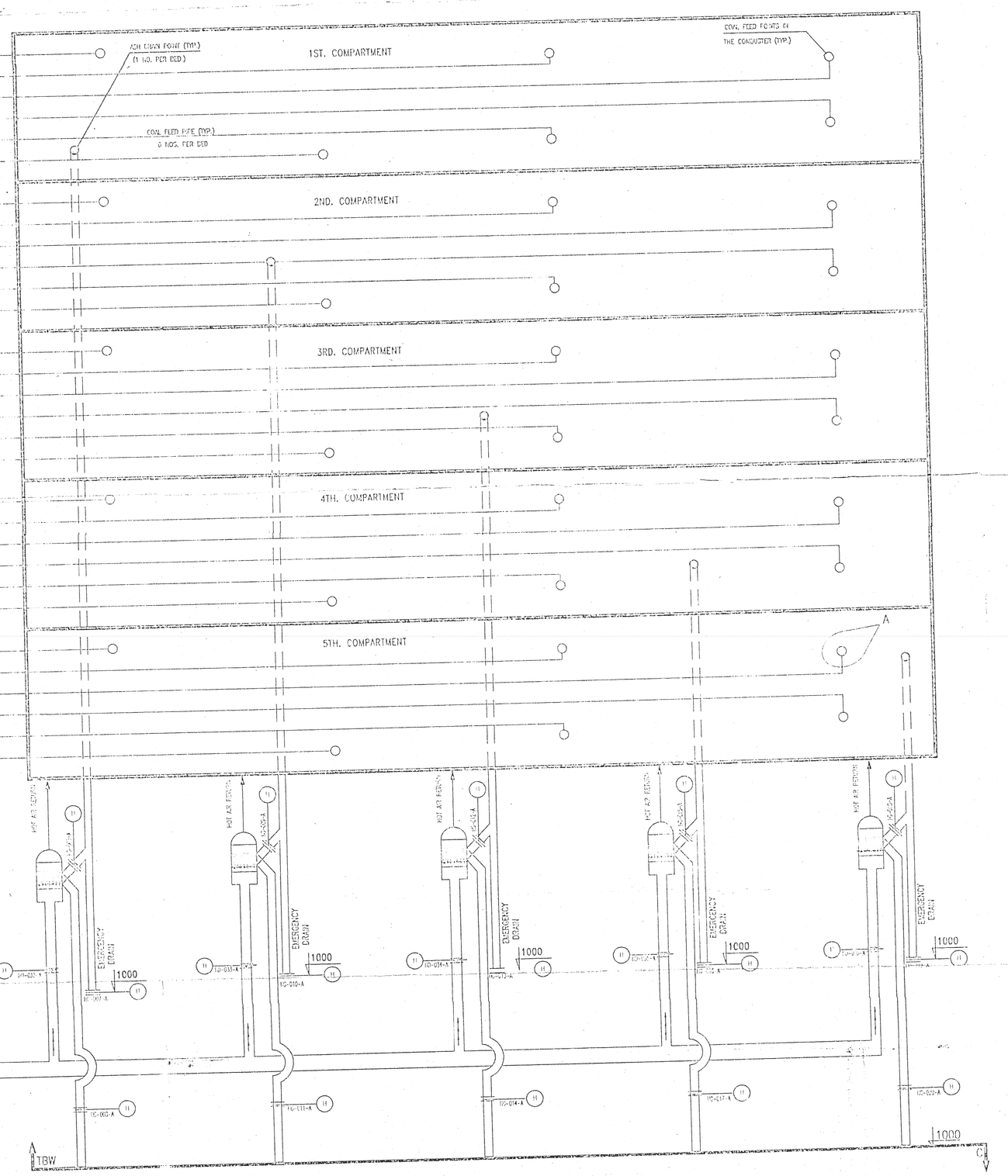
TO LOCAL INDICATORS FI-516-A TO FI-521-A

TO LOCAL INDICATORS FI-522-A TO FI-527-A

TO LOCAL INDICATORS FI-528-A TO FI-533-A

TO LOCAL INDICATORS FI-534-A TO FI-539-A

TO LOCAL INDICATORS FI-540-A TO FI-545-A



REV NO.	REVISION	MADE BY / DATE	CAD CHK / DATE	CHK / DATE
⚠	LINE SYMBOLS & VALVE SYMBOLS REVISED.	27.04.2004		
⚠	REVISED AS PER CLIENT'S COMMENTS & TAG NOS. GIVEN.	26.03.2004	27.03.2004	
⚠	REVISED AS PER CLIENT'S COMMENTS & TAG NOS. GIVEN.	19.02.2004	24.02.2004	

CLIENT : OSWAL STEEL.
CONSULTANT : DESEIN CONSULTANTS PVT. LTD.

THIS SYMBOL IN THE BLOCK INDICATES THAT THIS BLOCK IS PICKED FROM BLOCK LIBRARY.

ANY REVISION IN CAD DRAWING SHOULD BE RELEASED ONLY AFTER ENSURING THAT IT IS INCORPORATED IN THE RELEVENT CAD FILE. REVISION IS INVALID IF CAD CHK. DATE IN BOX IS ABSENT.

Thermax Babcock & Wilcox Limited PUNE 411 034

TP PROJECT PA0171/PA0172
REF.NO.

P & I DIAGRAM FOR 2x110 TPH AFBC COAL FIRED BOILER
(COAL FEEDING & BEDASH COOLING SYSTEM)

SCALE NTS.	DRAWN	21.03.2001
	CHECKED RAJAWEL	21.03.2001
	APPROVED	21.03.2001

DRG.NO. D12-0FB-1451P
REV.NO. 6

THIS IS A CAD DRAWING , DO NOT TAKE REPRODUCIBLE