

THE GROUP & UNIT CODE ON DRAWING SHOW "00" FOR COMMON PACKAGE THEREFORE, CONSIDER "11" FOR UNIT 1, "12" FOR UNIT 2, "13" FOR UNIT 3.

SCOPE

VENDOR	EPC	V : BHI E : EPC
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CODE LIMIT PIPING



- A : BOILER PROPER
- B : BEP
- C : NBEP

CCC : CHEMICAL CLEANING CONNECTION



: CONNECTION FOR VENT FUNNEL DRAIN



: LOCAL MAINTENANCE DRAIN FOR VISUAL CHECK

THE SCOPE OF THESE PITS AND RELATED ITEMS AS BELOW

HOOK UP DESIGN : BY BHI

STANCHION LOCATION DESIGN : BY SECCO III

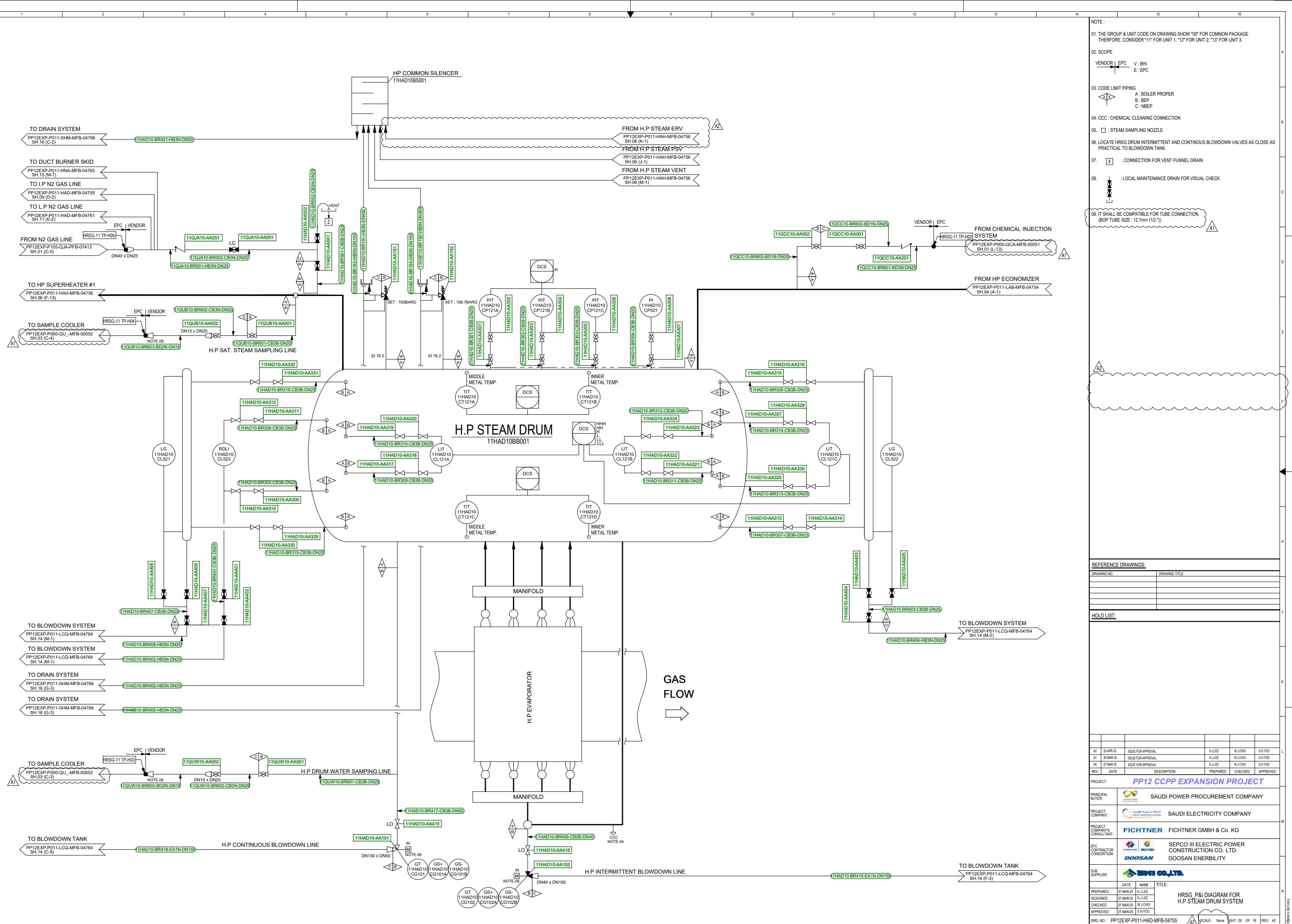
IO LIST : BY SEPSCO III

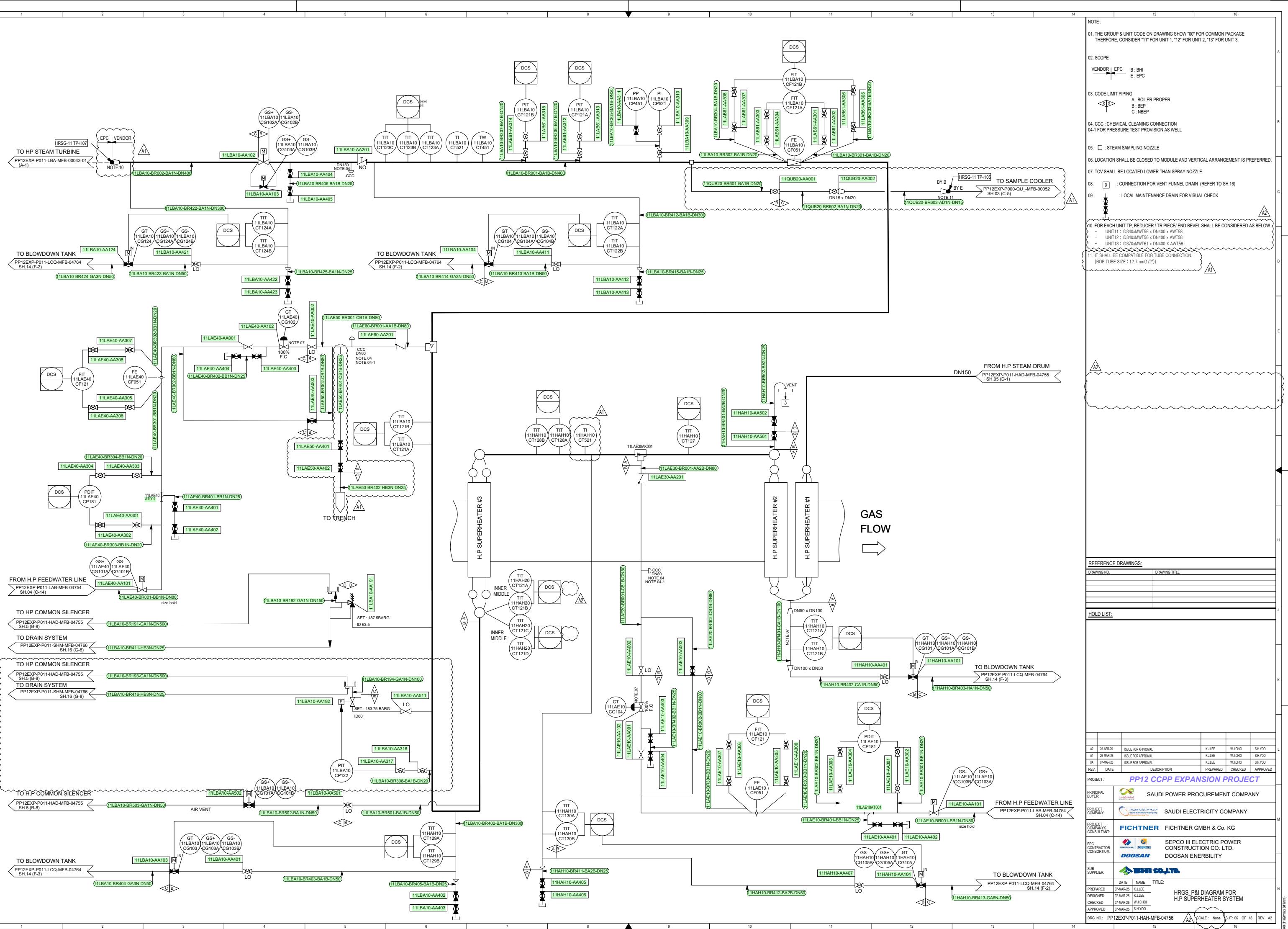
VFD CONTROL LOGIC : BY SEPSCO III

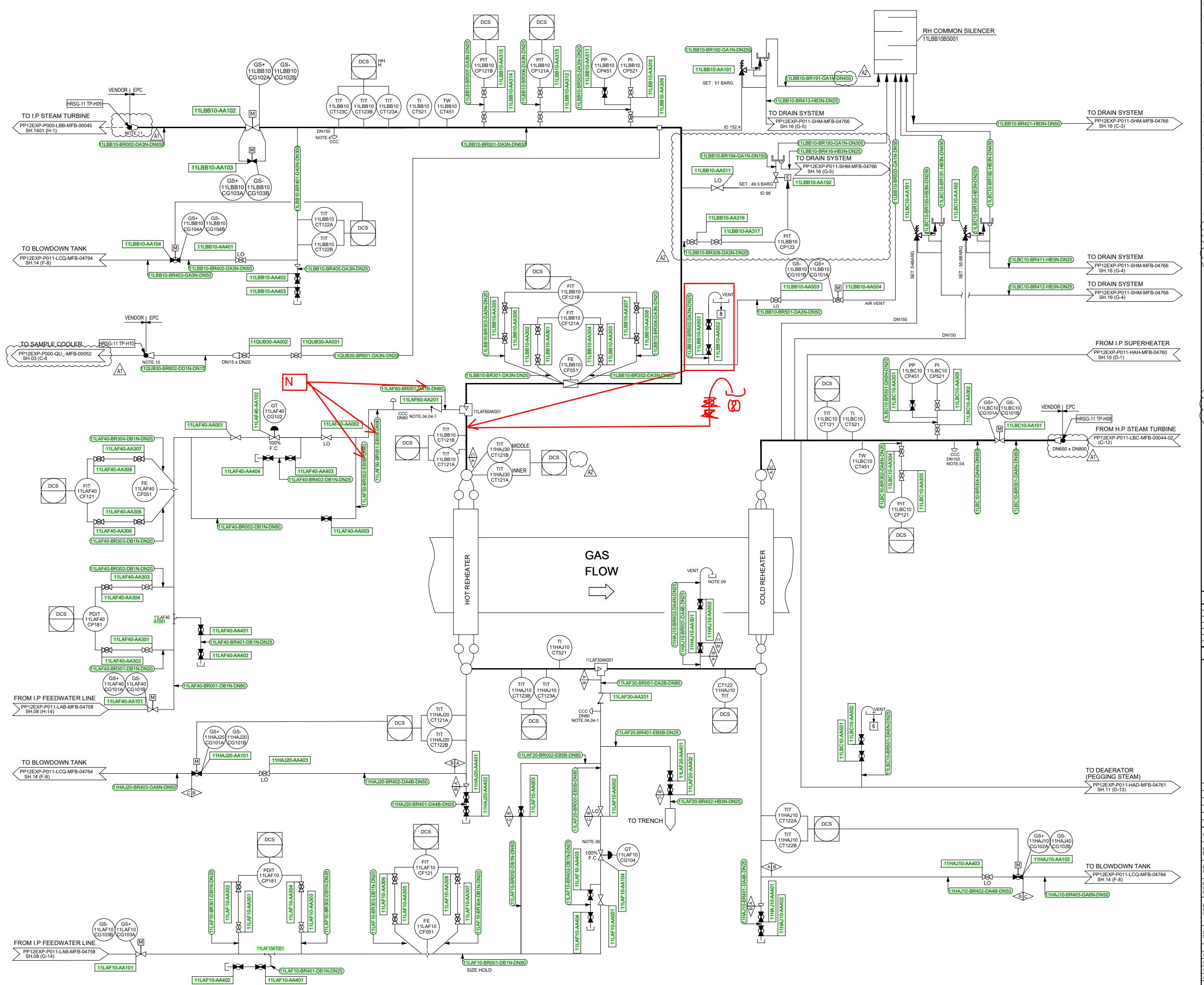
HOOK UP MATERIALS, STANCHION, CONDUIT, CABLES, ETC SUPPLY BY SEPSCO III

PIPEING MATERIAL, PIPE FITTING VALVE BY SEPSCO III

PIPING ROUTING INFORMATION : BY BHI







NOTE:

01. THE GROUP & UNIT CODE ON DRAWING SHOW "00" FOR COMMON PACKAGE. THEREFORE, CONSIDER "12" FOR UNIT 2, "13" FOR UNIT 3.
02. SCOPE
VENDOR : EPC V : BH
E : EPC
03. CODE LIMIT PIPING
A : BOILER PROPER
B : BEP
C : NBEP
04. CCC : CHEMICAL CLEANING CONNECTION
- 04-1. FOR PRESSURE TEST PROVISION AS WELL
05. □ : STEAM SAMPLING NOZZLE
06. TCV SHALL BE LOCATED LOWER THAN SPRAY NOZZLE.
07. : CONNECTION FOR VENT FUNNEL DRAIN
08. : LOCAL MAINTENANCE DRAIN FOR VISUAL CHECK
09. THE HEIGHTST POINT VENT (IT WILL BE CLOSED WITH TREADED CAP)
10. IT SHALL BE COMPATIBLE FOR TUBE CONNECTION.
(BOP TUBE SIZE : 12.7mm(1/2")
11. FOR EACH UNIT TP REDUCER (TRPIECE END BEVEL SHALL BE CONSIDER AS BELOW.
- UNIT 11/12/13 : ID680xMW730 X DN650 x AW730

REFERENCE DRAWINGS:

DRAWING NO. DRAWING TITLE

HOLD LIST:

A2	25-APR-25	ISSUE FOR APPROVAL	K.J.LEE	W.J.CHOI	S.H.YOO
A1	26-MAR-25	ISSUE FOR APPROVAL	K.J.LEE	W.J.CHOI	S.H.YOO
A4	07-MAR-25	ISSUE FOR APPROVAL	K.J.LEE	W.J.CHOI	S.H.YOO

REV. DATE DESCRIPTION PREPARED CHECKED APPROVED

PP12 CCP EXPANSION PROJECT

PRINCIPAL BUYER SAUDI POWER PROCUREMENT COMPANY

PROJECT COMPANY: SAUDI ELECTRICITY COMPANY

PROJECT CONSULTANT: FICHTNER GMBH & Co. KG

EPS CONTRACTOR CONSORTIUM: SEPCO III ELECTRIC POWER CONSTRUCTION CO. LTD.

DOOSAN ENERBILITY

SUB SUPPLIER: DOOSAN CORP.

DATE NAME TITLE:

PREPARED 07-MAR-25 K.J.LEE

DESIGNED 07-MAR-25 K.J.LEE

CHECKED 07-MAR-25 W.J.CHOI

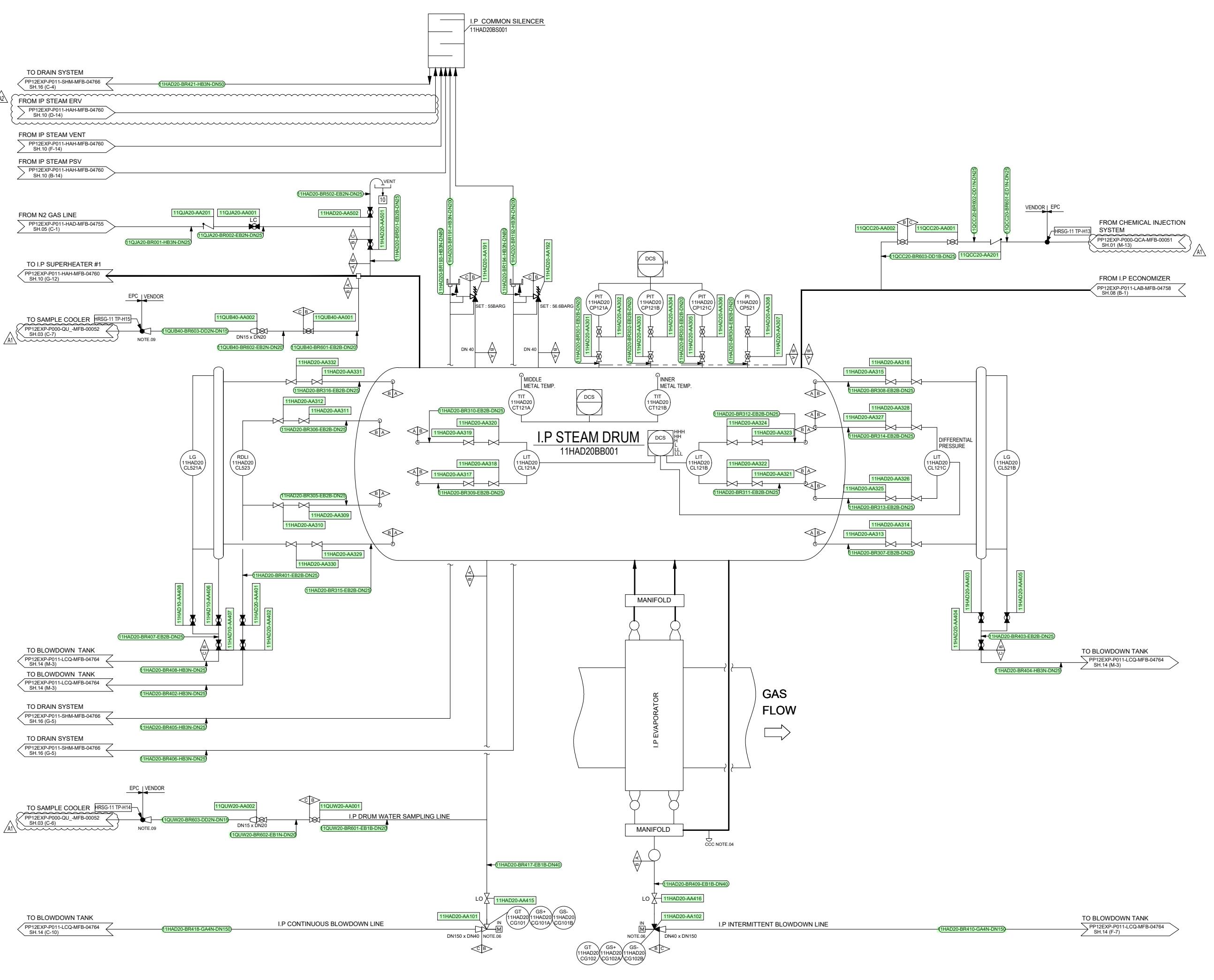
APPROVED 07-MAR-25 S.H.YOO

DRG. NO.: PP12EXP-P011-HAH-MFB-04757

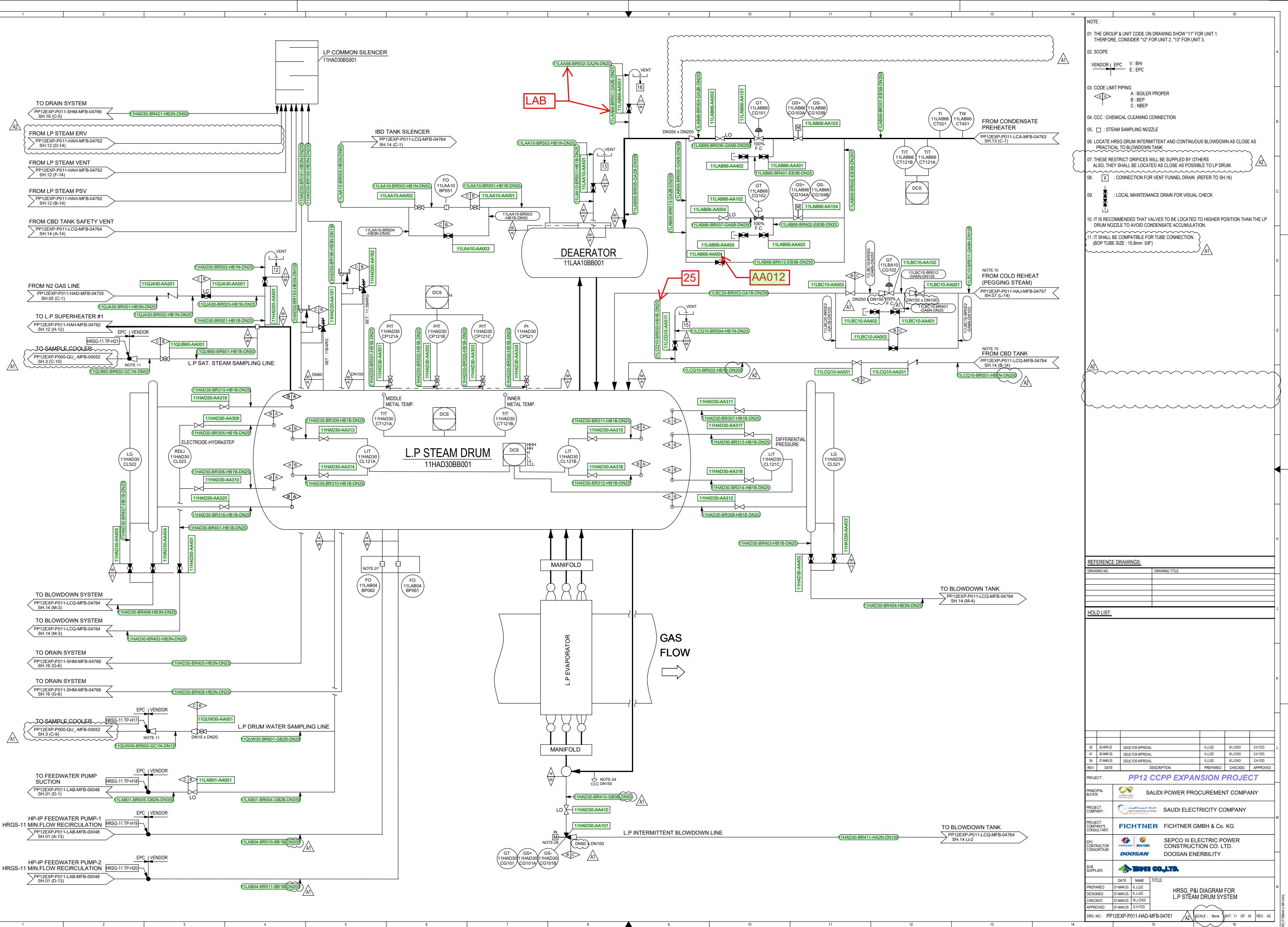
SCALE: None SHT: 07 OF 18 REV. A2

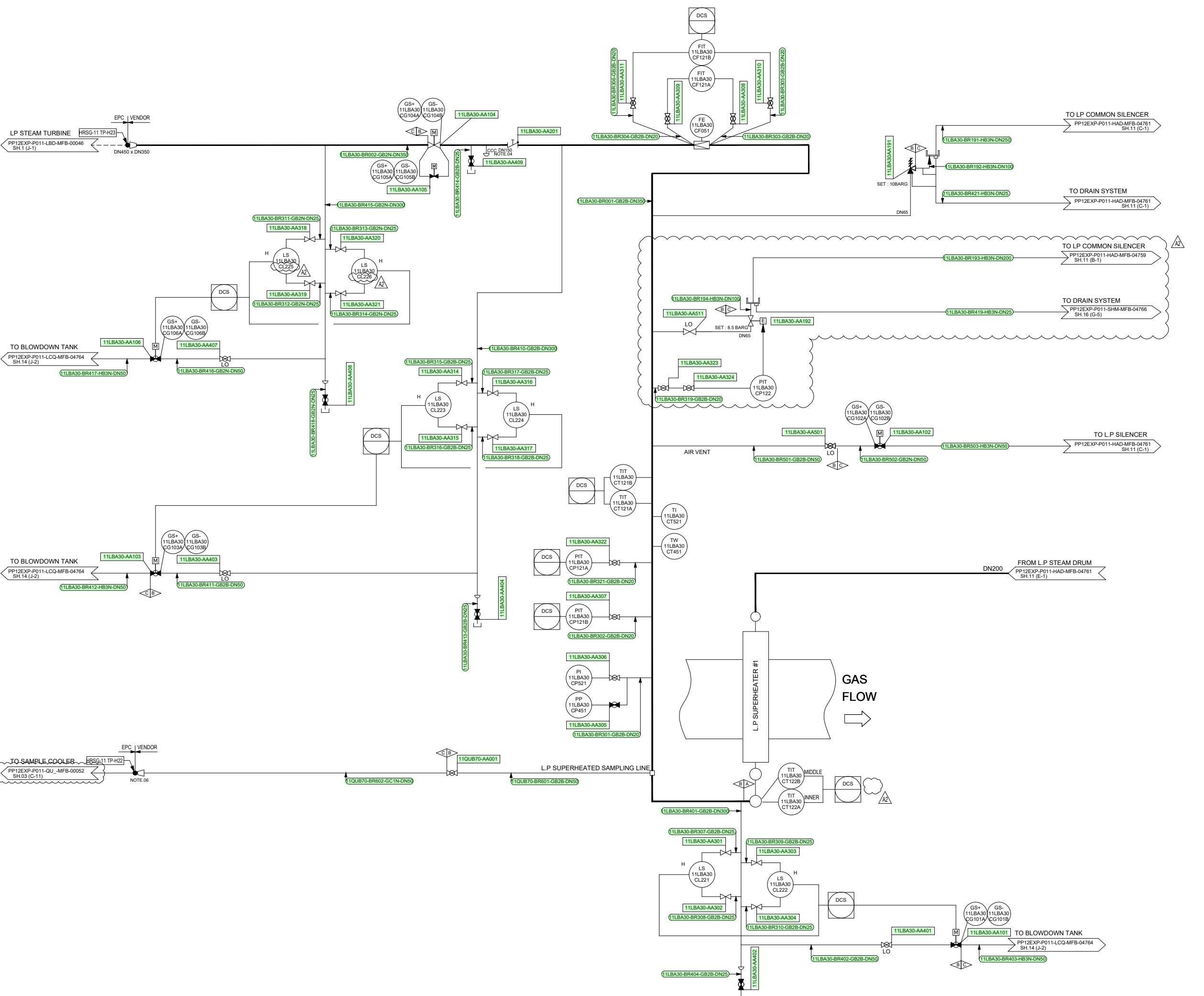
A2

15 16



TE :		THE GROUP & UNIT CODE ON DRAWING SHOW "11" FOR UNIT 1. THERFORE, CONSIDER "12" FOR UNIT 2, "13" FOR UNIT 3.											
SCOPE													
ENDOR	EPC	V : BHI											
		E : EPC											
CODE LIMIT PIPING													
	A : BOILER PROPER B : BEP C : NBEP												
CCC : CHEMICAL CLEANING CONNECTION													
	□ : STEAM SAMPLING NOZZLE												
LOCATE HRSG DRUM INTERMITTENT AND CONTINUOUS BLOWDOWN AS CLOSE AS PRACTICAL TO BLOWDOWN TANK													
	X : CONNECTION FOR VENT FUNNEL DRAIN (REFER TO SH.16)												
	□ : LOCAL MAINTENANCE DRAIN FOR VISUAL CHECK												
IT SHALL BE COMPATIBLE FOR TUBE CONNECTION. (BOP TUBE SIZE : 12.7mm (1/2"))													
</td													





NOTE :
01. THE GROUP & UNIT CODE ON DRAWING SHOW "11" FOR UNIT 1.
 THEREFORE, CONSIDER "42" FOR UNIT 2, "43" FOR UNIT 3.

THE GROUP & UNIT CODE ON DRAWING SHOW "11" FOR UNIT 1.
THERFORE, CONSIDER "12" FOR UNIT 2, "13" FOR UNIT 3.

02. SCOPE

03. CODE LIMIT PIPING

B:BEP
C:NBEP

04. CCC : CHEMICAL CLEANING CONNECTION

05. : LOCAL MAINTENANCE DRAIN FOR VISUAL CHECK

06. IT SHALL BE COMPATIBLE FOR TUBE CONNECTION.
(OD: TUBE SIZE : 15.9mm : 5/8")

A1

REFERENCE DRAWING NO.		DRAWING TITLE
HOLD LIST:		
A2	25-APR-25	ISSUE FOR APPROVAL
AT	26-MAR-25	ISSUE FOR APPROVAL
QA	07-MAR-25	ISSUE FOR APPROVAL

PP12 CCPP EXPANSION PROJECT

Saudi Power Procurement Company

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SAUDI ELECTRICITY COMPANY

FICHTNER GMBH & Co. KG

 CHINA SEPCO III ELECTRIC POWER CONSTRUCTION CO. LTD.

DOOSAN ENERBILITY

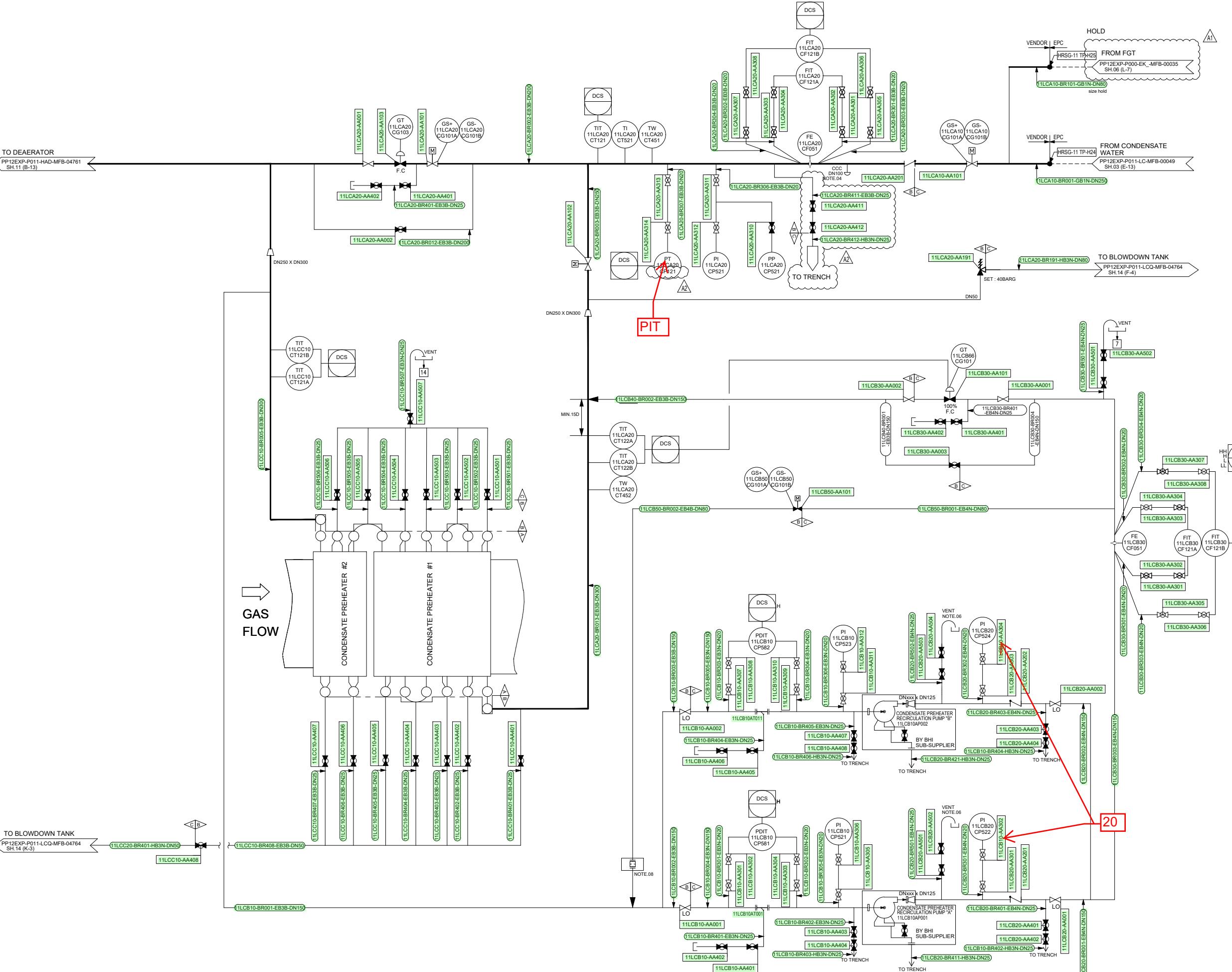
ВИП СОЛДАТ

HRSG P&I DIAGRAM FOR

L.P SUPERHEATER SYSTEM

-P011-HAH-MFB-04762 A2 SCALE : None SHT: 12 OF 18 REV.

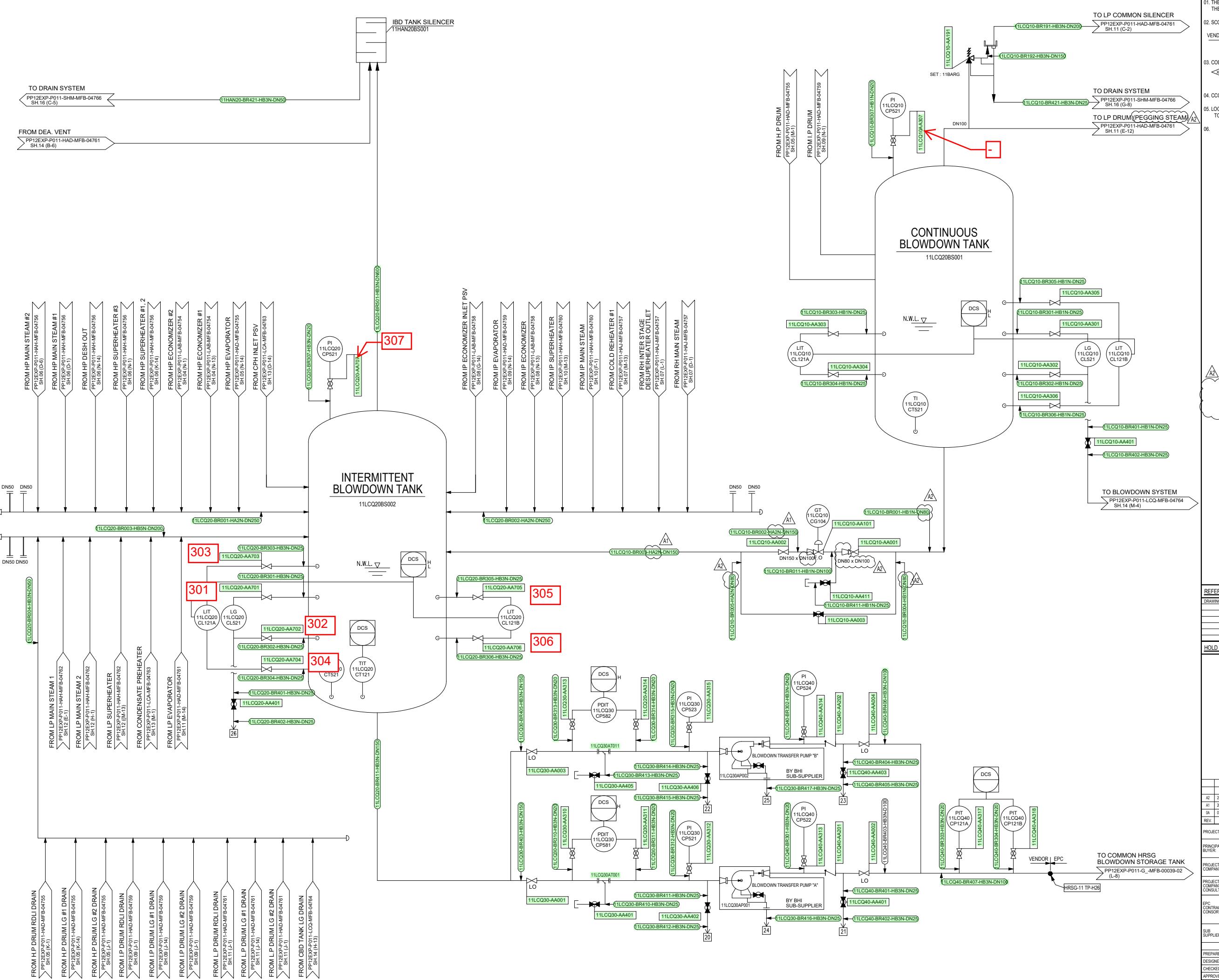
15 | 16



NOTE :

01. THE GROUP & UNIT CODE ON DRAWING SHOW "11" FOR UNIT 1.
THEREFORE, CONSIDER "12" FOR UNIT 2, "13" FOR UNIT 3.
02. SCOPE
- VENDOR EPC V: BHI
E: EPC
03. CODE LIMIT PIPING
 -  A : BOILER PROPER
 - B : BEP
 - C : NBEP
04. CCC : CHEMICAL CLEANING CONNECTION
05. : CONNECTION FOR VENT FUNNEL DRAIN (REFER TO SH.16)
06. THE HIGHEST POINT VENT (IT WILL BE CLOSED WITH TREADED CAP)
07.  : LOCAL MAINTENANCE DRAIN FOR VISUAL CHECK
08. THE RESTRICT ORIFICE WILL BE SUPPLIED BY SUB-SUPPLIER

REFERENCE DRAWINGS:						
DRAWING NO.	DRAWING TITLE					
<u>HOLD LIST:</u>						
					J	
					K	
					L	
					M	
					N	
REV. DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED		
PP12 CCP EXPANSION PROJECT						
PRINCIPAL OWNER	 Saudi Power Procurement Company Saudi Electricity Company Electricity Supply Co.					
PROJECT COMPANY:	 Saudi Electricity Company					
PROJECT COMPANY'S CONSULTANT:	 FICHTNER FICHTNER GMBH & Co. KG					
EPC CONTRACTOR CONSORTIUM:	 SEPCO III ELECTRIC POWER CONSTRUCTION CO. LTD. DOOSAN ENERBILITY					
SUB-SUPPLIER:	 BHTI CO., LTD.					
DATE	NAME	TITLE:				
PREPARED	07-MAR-25	K.J.LEE	HRSG P&I DIAGRAM FOR CONDENSATE PREHEATER SYSTEM			
DESIGNED	07-MAR-25	K.J.LEE				
CHECKED	07-MAR-25	W.J.CHOI				
APPROVED	07-MAR-25	S.H.YOO				
ORG. NO. PP12EXP-P011-LCA-MFB-04763				SCALE: None	IGHT: 13 OF 18	REV. A2



GROUP & UNIT CODE ON DRAWING SHOW "11" FOR UNIT 1.
THEREFORE, CONSIDER "12" FOR UNIT 2, "13" FOR UNIT 3.

DOPE

 NOR | EPC V : BHI
E : EPC

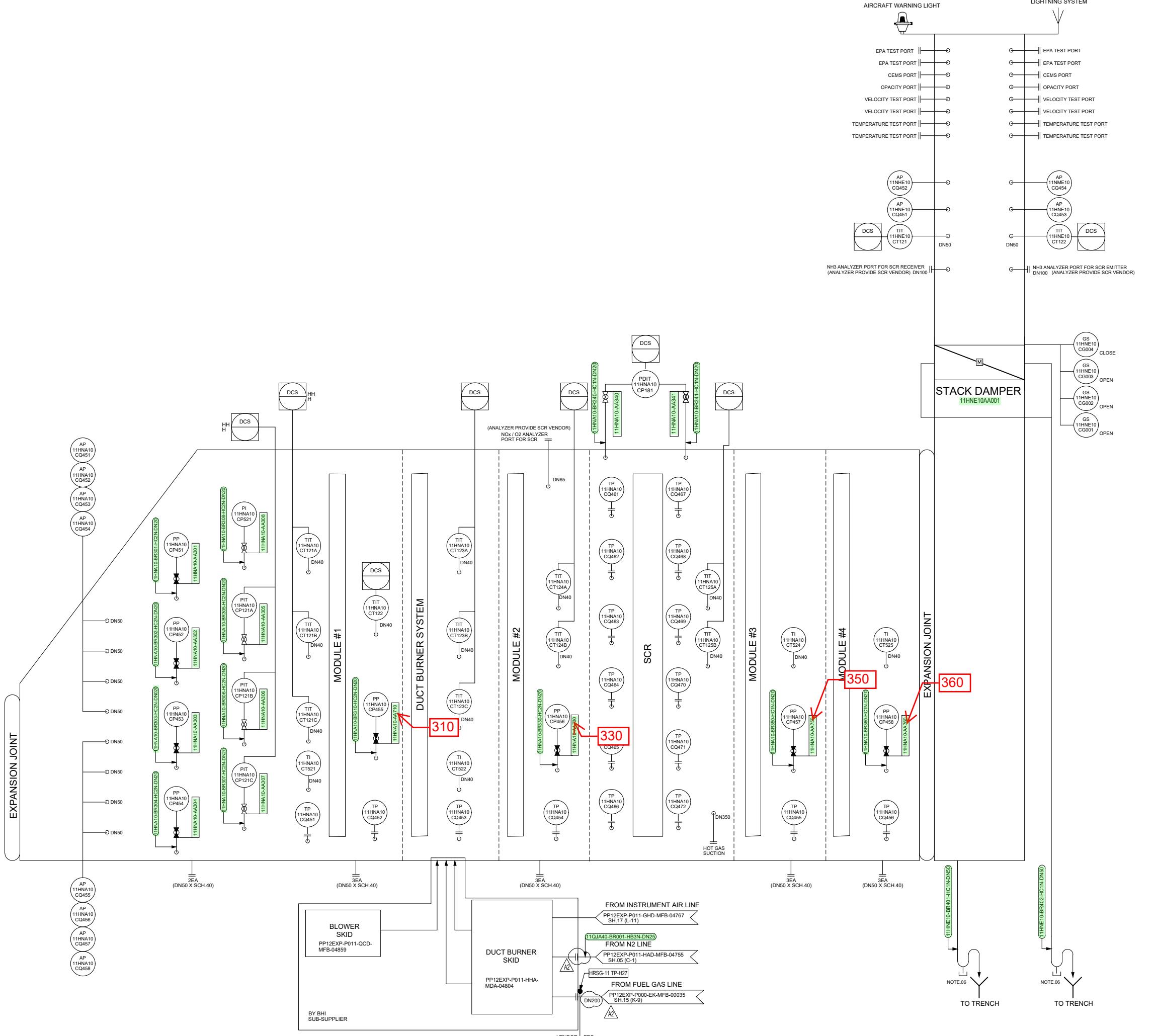
DE LIMIT PIPING

A : BOILER PROPER
B : BEP
C : NBEP

C : CHEMICAL CLEANING CONNECTION

ATE HRSG START UP AND CONTINUOUS BLOWDOWN VALVES AS CLOSE
BLOWDOWN TANK.

 : LOCAL MAINTENANCE DRAIN FOR VISUAL CHECK



NOTE :

1. THE GROUP & UNIT CODE ON DRAWING SHOW "11" FOR UNIT 1.
THEREFORE, CONSIDER "12" FOR UNIT 2, "13" FOR UNIT 3.
2. SCOPE

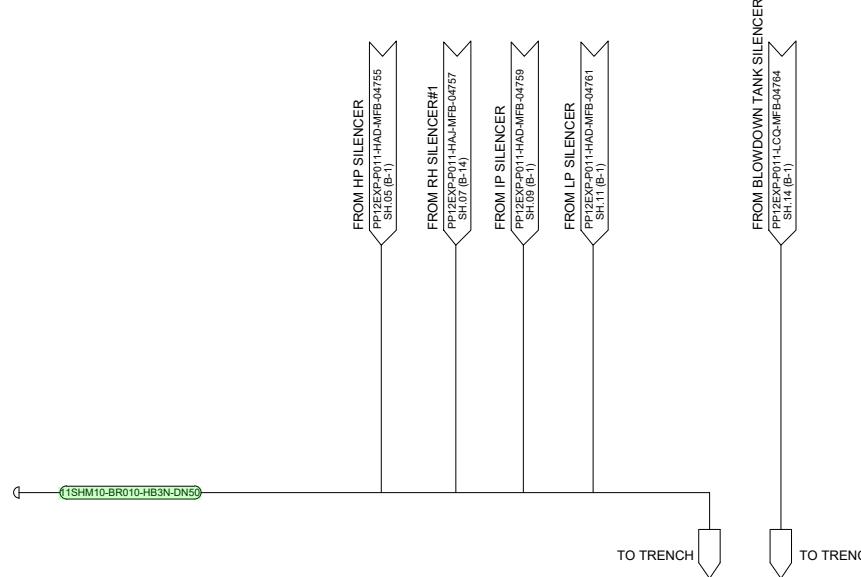
VENDOR : EPC V : BH
E : EPC

3. CODE LIMIT PIPING

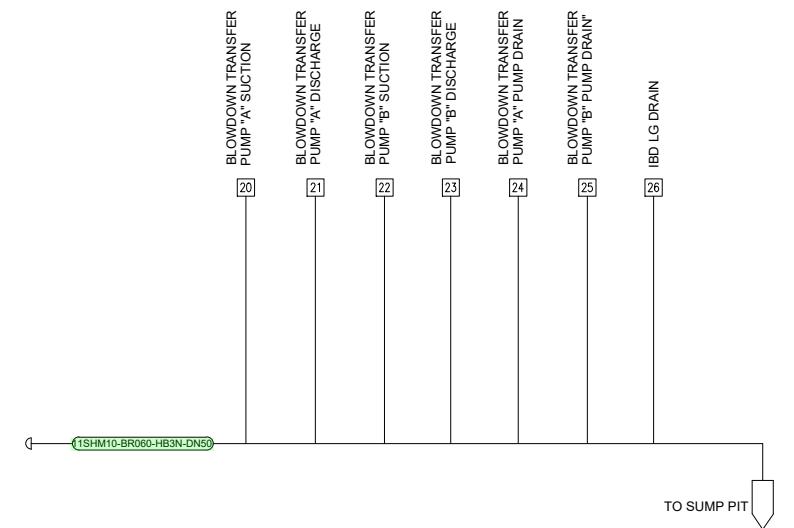
A : BOILER PROPER
B : BEP
C : NBEP
4. CCC : CHEMICAL CLEANING CONNECTION
5. EA : QUANTITY OF DRAIN POINT
6. PROVISION FOR INITIAL WATER FILLING

A2	25-APR-25	ISSUE FOR APPROVAL	K.J.LEE	W.J.CHOI	S.H.YOO
A1	26-MAR-25	ISSUE FOR APPROVAL	K.J.LEE	W.J.CHOI	S.H.YOO
DA	07-MAR-25	ISSUE FOR APPROVAL	K.J.LEE	W.J.CHOI	S.H.YOO
EV.	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
PROJECT: PP12 CCP EXPANSION PROJECT					
PRINCIPAL BUYER	 SAUDI POWER PROCUREMENT COMPANY				
PROJECT COMPANY:	 SAUDI ELECTRICITY COMPANY				
PROJECT COMPANIES CONSULTANT:	 FICHTNER GMBH & Co. KG				
PC CONTRACTOR CONSORTIUM:	 SEPCO III ELECTRIC POWER CONSTRUCTION CO., LTD. DOOSAN ENERBILITY				
JB SUPPLIER:					
ORG. NO.	PP12EXP-P011-HNA-MFB-04765	DATE	NAME	TITLE	HRSG P&I DIAGRAM FOR CASING SYSTEM
REPAVED	07-MAR-25	K.J.LEE			
DESIGNED	07-MAR-25	K.J.LEE			
CHECKED	07-MAR-25	W.J.CHOI			
PROVED	07-MAR-25	S.H.YOO			
REV.	A2	SCALE:	None		IHT- 15 OF 18

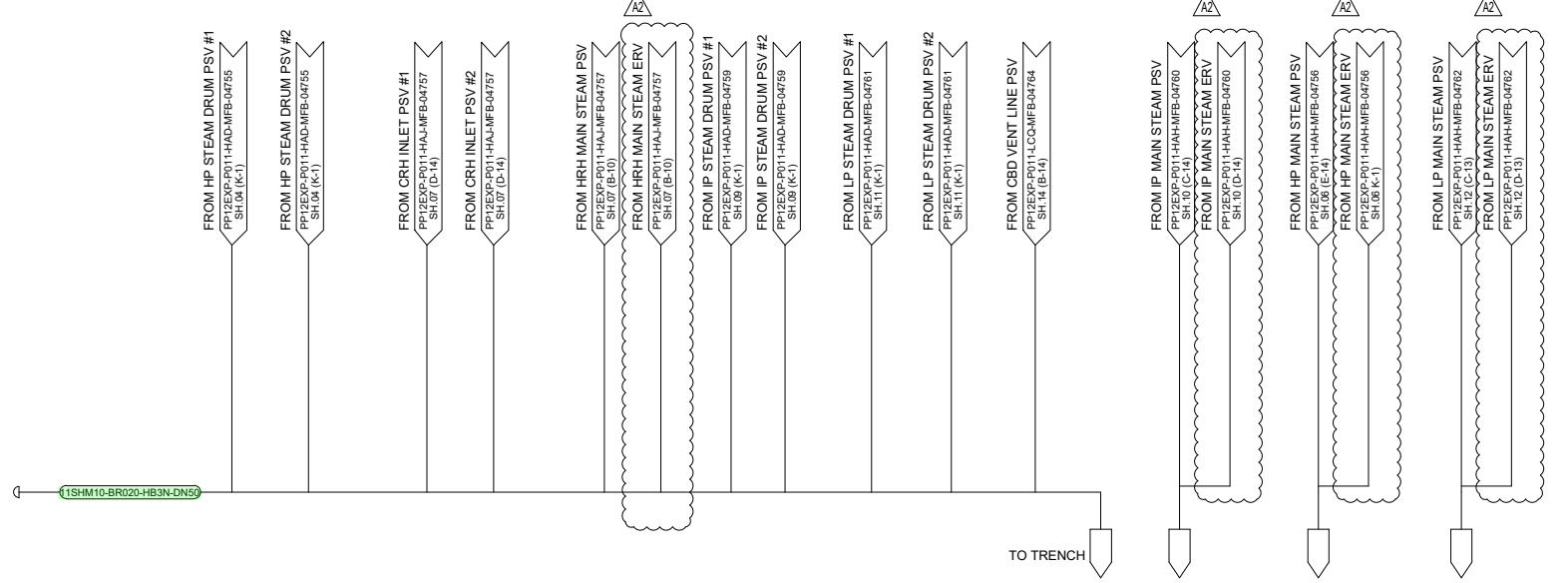
SILENCER DRAIN LINE



IBD TANK AREA DRAIN LINE



PRESSURE SAFETY VALVE DRAIN LINE



REFERENCE DRAWINGS:

DRAWING NO. DRAWING TITLE

HOLD LIST:

FUNNEL DRAIN LINE



PP12 CCP EXPANSION PROJECT

PRINCIPAL BUYER: SAUDI POWER PROCUREMENT COMPANY

PROJECT COMPANY: SAUDI ELECTRICITY COMPANY

PROJECT CONSULTANT: FICHTNER GMBH & Co. KG

EPIC CONTRACTOR CONSORTIUM: SEPCO III ELECTRIC POWER CONSTRUCTION CO. LTD. DOOSAN ENERBILITY

SUB SUPPLIER: DOOSAN CORP.

PREPARED: 07-MAR-25 DESIGNER: 07-MAR-25 CHECKED: 07-MAR-25 APPROVED: 07-MAR-25

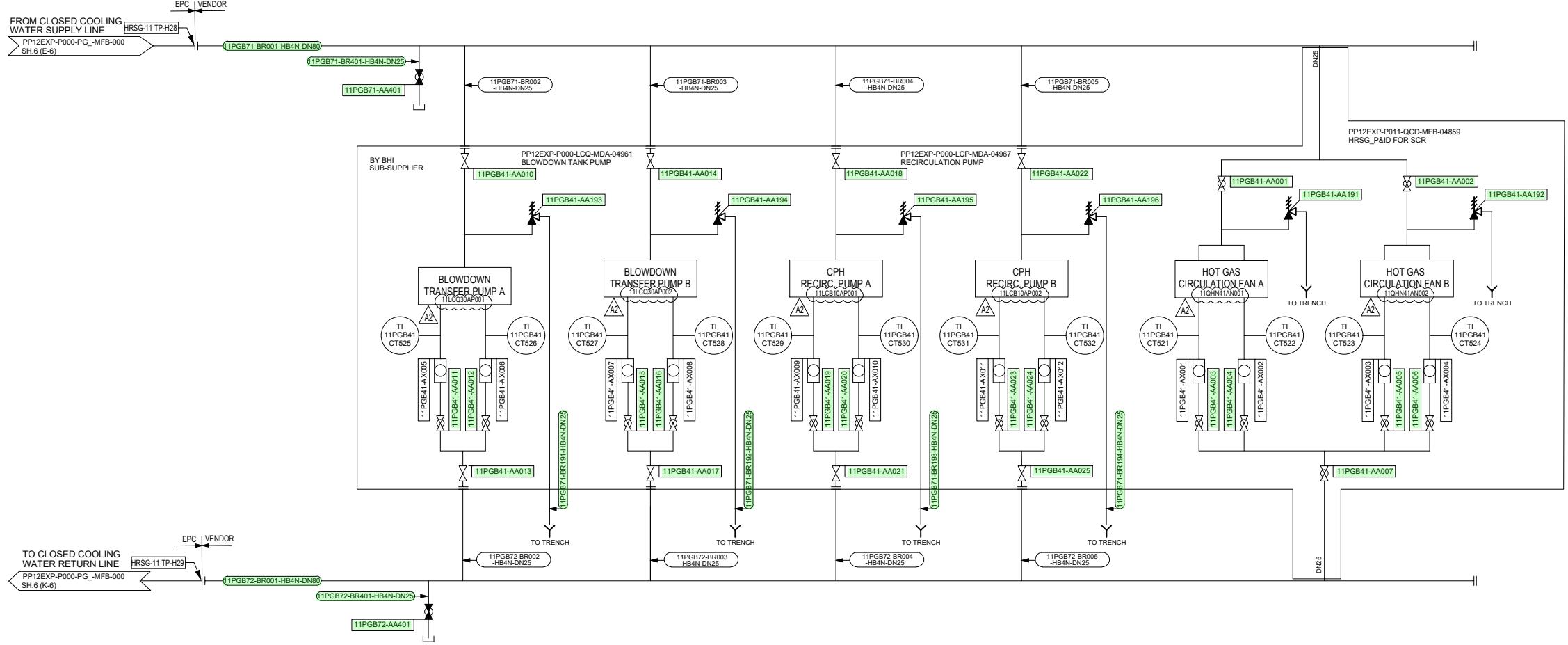
DATE: NAME: TITLE: HRSG_P&I DIAGRAM FOR DRAIN SYSTEM

DRG. NO.: PP12EXP-P011-SHM-MFB-04766

SCALE: None SHT: 16 OF 18 REV. A2

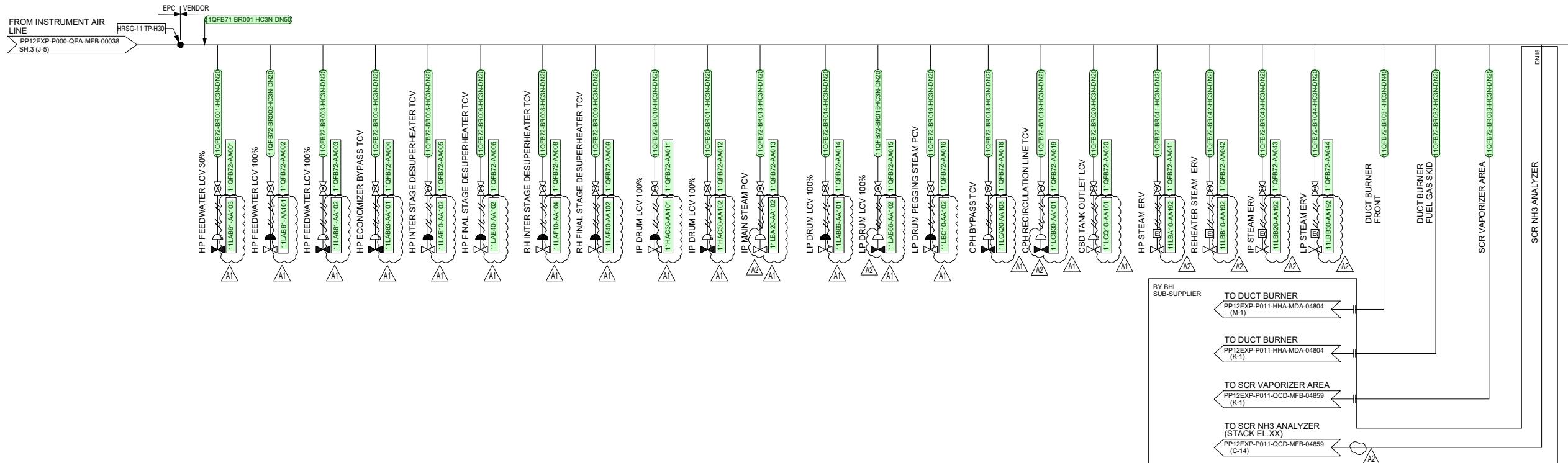
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02. SCOPE
VENDOR | EPC V: BHI E: EPC
03. CODE LIMIT PIPING
A : BOILER PROPER
B : BEP
C : NEP
04. CCC : CHEMICAL CLEANING CONNECTION

CLOSED COOLING WATER SYSTEM

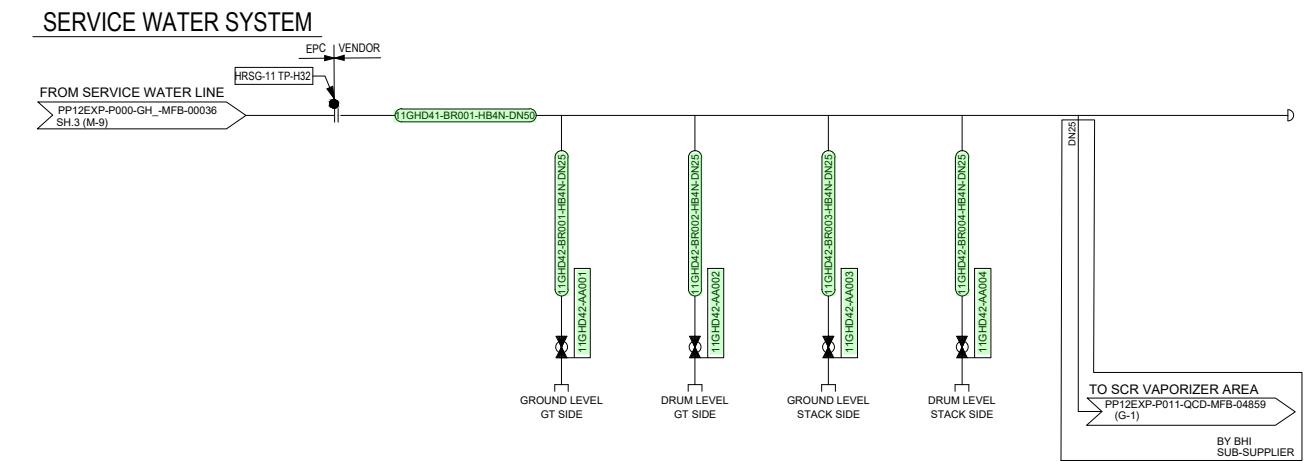
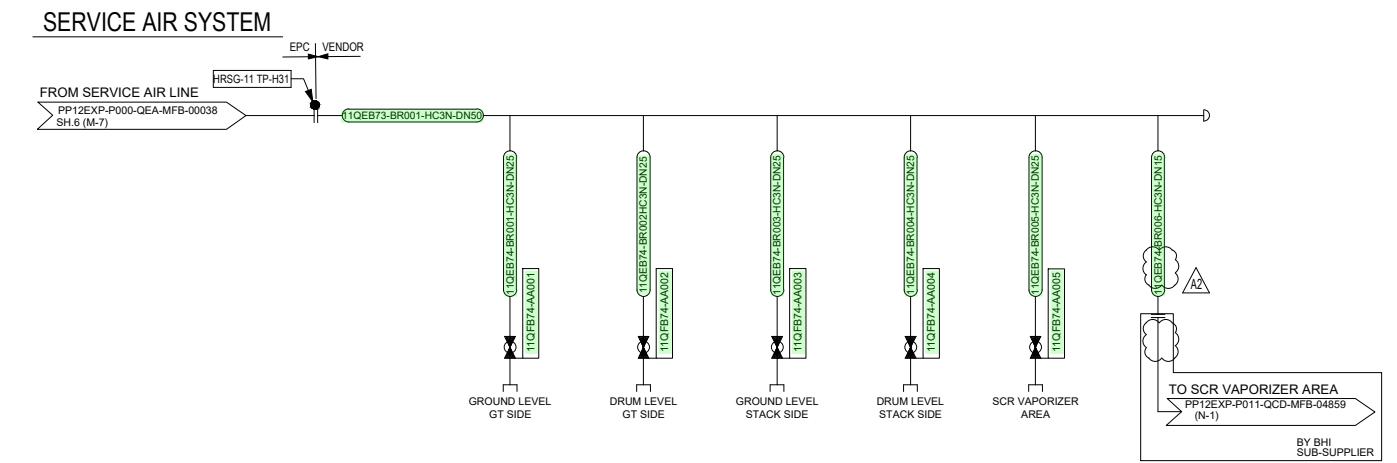


- NOTE:**
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- 02. SCOPE**
VENDOR EPC V: BHI
E: EPC
- 03. CODE LIMIT PIPING**
A : BOILER PROPER
B : BEP
C : NSEP
- 04.** LOCAL MAINTENANCE DRAIN FOR VISUAL CHECK

INSTRUMENT AIR SYSTEM



NOTE:
 01. THE GROUP & UNIT CODE ON DRAWING SHOW "11" FOR UNIT 1.
 THEREFORE, CONSIDER "12" FOR UNIT 2, "13" FOR UNIT 3.
 02. SCOPE
 VENDOR | EPC | V: BHI
 E: EPC
 03. CODE LIMIT PIPING
 A: BOILER PROPER
 B: BEP
 C: NBEPE



REFERENCE DRAWINGS:

DRAWING NO. DRAWING TITLE

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