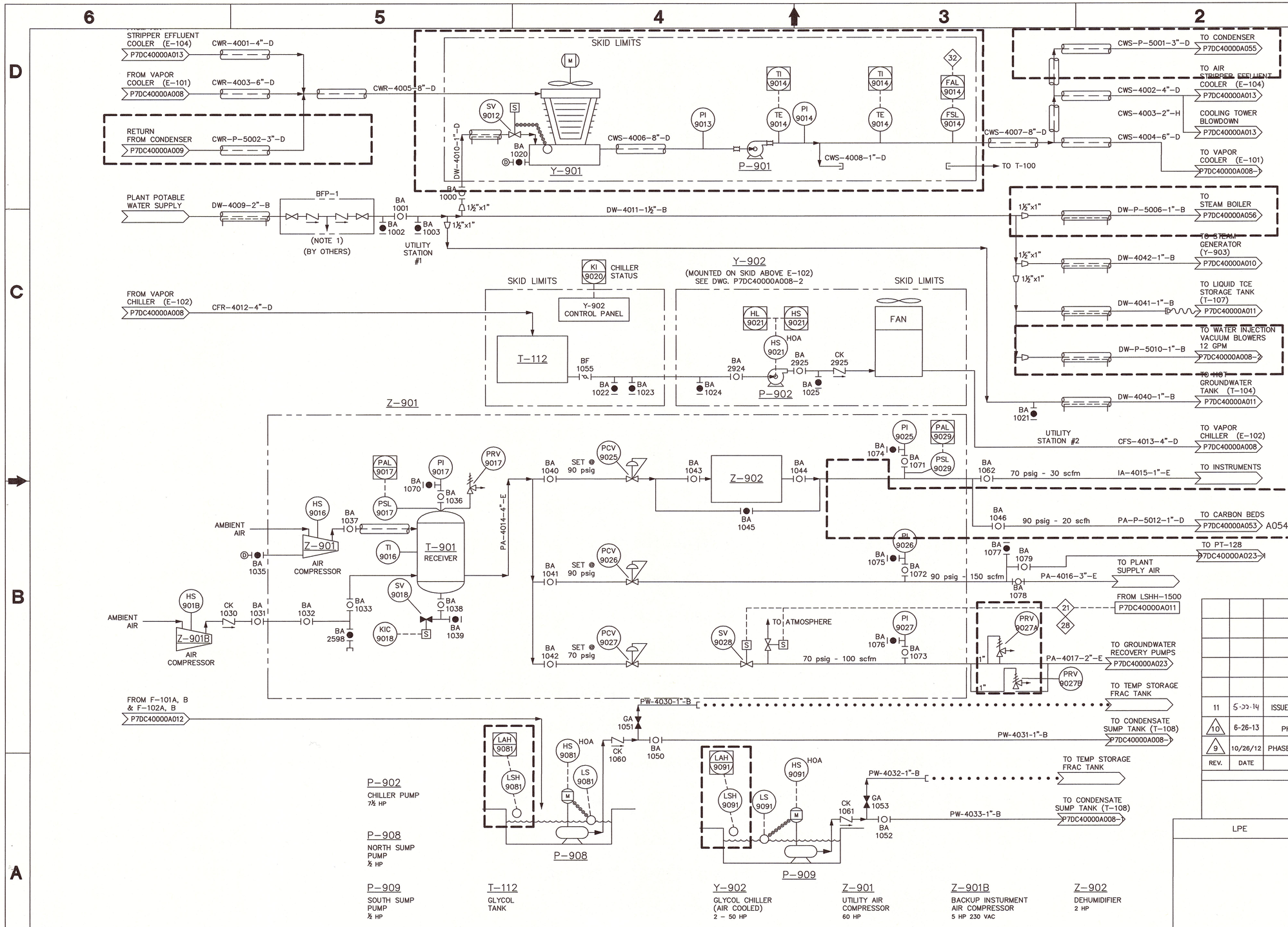

P-902
CHILLER PUMP
7½ HP

P-908
NORTH SUMP PUMP
½ HP

P-909
SOUTH SUMP PUMP
½ HP

T-112
GLYCOL TANK

Y-902
GLYCOL CHILLER (AIR COOLED)
2 – 50 HP

Z-901
UTILITY AIR COMPRESSOR
60 HP

Z-901B
BACKUP INSTURMENT AIR COMPRESSOR
5 HP 230 VAC

Z-902
DEHUMIDIFIER
2 HP

NOTES:

1. A BACKFLOW PREVENTER WITH INTERMEDIATE VENT IS USED TO PROVIDE POSITIVE ASSURANCE AGAINST CONTAMINATION OF POTABLE WATER.

INTERLOCKS:

21 HIGH-HIGH LEVEL IN DNAPL SEPARATOR (T-105A, B) WILL SHUT DOWN AIR TO WELL PUMPS AND P-101, ALARM & NOTIFY TELEMANAGER.

28 HIGH-HIGH TCE/VOC CONCENTRATION IN THE VAPOR AT THE STACK SHUTS DOWN THE VAPOR (CLOSES SV-9028) AND GROUNDWATER SYSTEMS (STOPS VACUUM BLOWERS B-101A, B)

32 LOW COOLING WATER FLOW SHUTS DOWN COOLING WATER PUMP P-901

INSTRUMENT LEGEND:

AE INSTRUMENT MOUNTED LOCALLY OR ON SKID CONTROL PANEL

TAH INSTRUMENT MOUNTED ON LOCAL SKID CONTROL PANEL OR SKID PLC HMI

AI INSTRUMENT DISPLAY ON HMI OF CENTRAL PLC

SUBCONTRACTOR INSTALLED

EXISTING TO REMAIN

AREA OF CONTRACTOR SCOPE

REV.	DATE	DESCRIPTION	DRAWN BY	DRAFT CHK	PROJ ENGR	LEAD ENGR	CONF CTRL/ NUCL SFTY	FAC MGR	E&TS MGR
11	5-22-14	ISSUED FOR AS-BUILT, PHASE 2A	KTW	BNC	DJH	JTP	SJD	JRW	PAC
10	6-26-13	PHASE IIA DESIGN–ISSUED FOR AS-BUILT	KTW	NJB	DJH	JTP	SJD	JRW	PAC
9	10/26/12	PHASE IIA DESIGN–CERTIFIED FOR CONSTRUCTION	NJB	TJH	TJM	BCK	SJD	JRW	RES

DRAWING REVISIONS

U.S. DEPARTMENT OF ENERGY
PADUCAH, PORTSMOUTH PROJECT OPERATIONS,
PADUCAH GASEOUS DIFFUSION PLANT

LPE

LATA Environmental Services of Kentucky, LLC managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC30-10CC40020 Paducah, Kentucky

DOE CONTRACT NO. DE-AC30-10CC40020

PROJECT NAME:
C-400 REMEDIATION DESIGN

TITLE:
SOIL VAPOR AND GROUNDWATER TREATMENT SYSTEMS UTILITIES PROCESS PIPING & INSTRUMENTATION DIAGRAM

EDCS CAD FILENAME	BUILDING	PLANT	CLASS
P7DC40000A005 REV11.DWG	C-400	PDGP	U

DATE:	SCALE:	DRAWING NUMBER	REV
PROFESSIONAL SEAL	N/A	P7DC40000A005	11

3C2