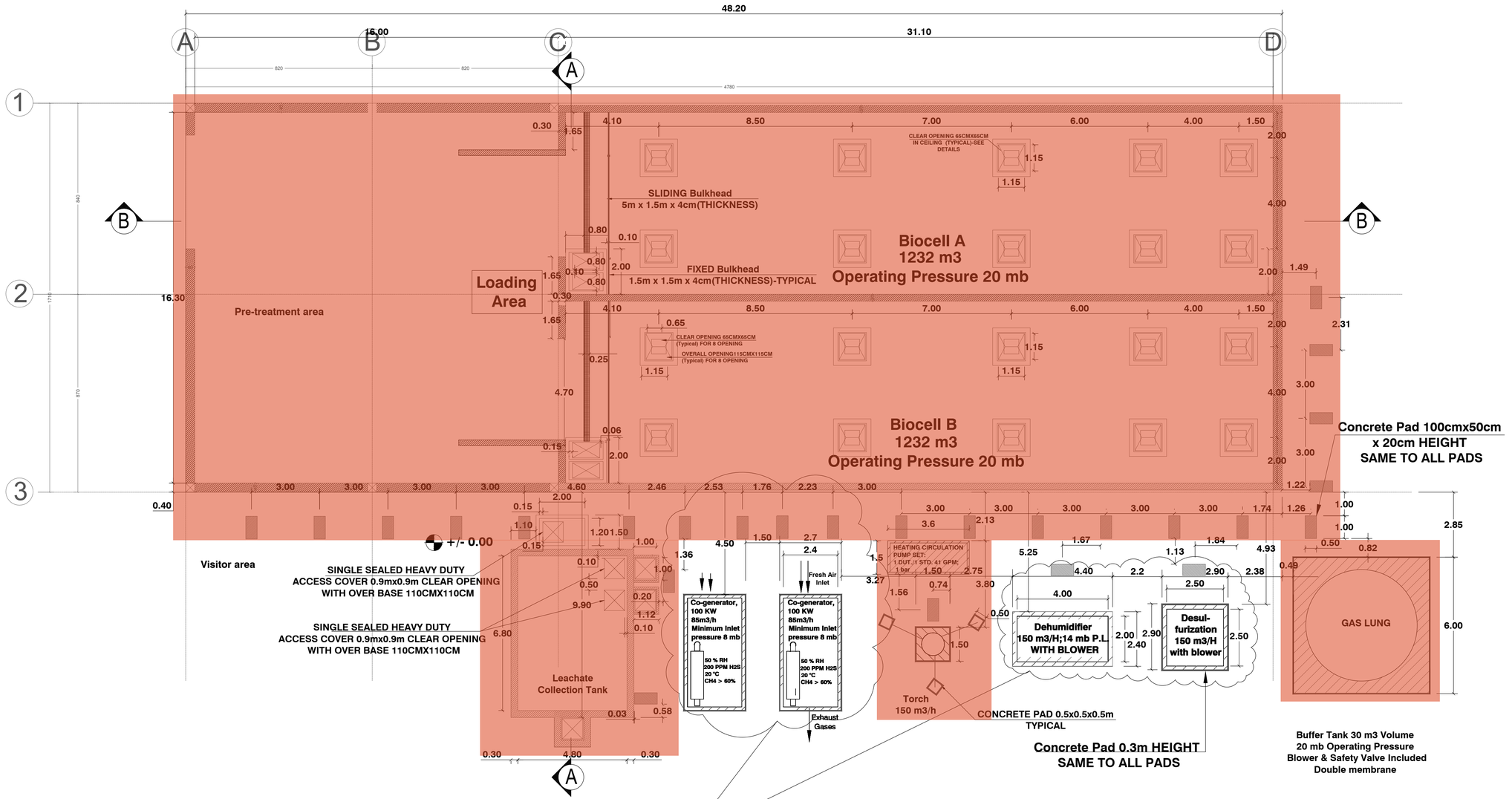

LEGEND:

@:	AT
H/L:	HIGH LEVEL
F.F.L:	FINISHED FLOOR LEVEL
UG:	UNDER GROUND
DN:	DOWN TO BELOW
UP:	UP TO ABOVE
CW:	COLD WATER SUPPLY PIPE
PPR:	POLYPROPYLENE PIPE
SV:	SOLENOID VALVE
GV:	CEILING INVERT LEVEL
HDPE:	HIGH DENSITY POLYETHYLENE
SP:	SPRINKLER PIPE
MV:	MOTORIZED VALVE
SFV:	SAFETY VALVE
S/S:	STAINLESS STEEL
MD:	MOTORIZED DAMPER
EG:	EXHAUST GRILL
VD:	VOLUME DAMPER
EF:	EXHAUST FAN
MVD1-2:	MOTORIZED VOLUME DAMPER 100% AIR TIGHT
BTV	BUTTERFLY VALVE
DUT.:	DUTY
STD.:	STAND BY
UPVC.:	UNPLASTICIZED POLYVINYL CHLORIDE
mb:	MILLIBAR
GPM:	GALLON PER MINUTE
CFM:	CUBIC FEET PER MINUTE
ED:	EXHAUST DUCT
CH4:	METHANE
TWV:	THREE WAY VALVE
GM:	GAS METER
SG:	SUPPLY GRILL
BV:	BALL VALVE
P.L.:	PRESSURE LOSS
C.I.L.:	CEILING INVERT LEVEL
E.S.P.:	EXTERNAL STATIC PRESSURE
GS:	GALVANIZED STEEL
AAV:	AUTOMATIC AIR VENT
	NON RETURN VALVE OPERATE AT 25mb

Notes:

- All dimensions are in meter unless indicated otherwise
- Provisional equipments:

Provisional equipments will not be supplied by MEES under the current scope of work:

*Nitrogen Generator
*Desulfurization
*Dehumidifier
*Co-generator

Project

BAALBACK BIOGAS PLANT

Client

COSV ngo

Toward clean energy and innovative environmental solutions in Lebanon
DCI-ENV/210/256-762

Contarctor

Consultant

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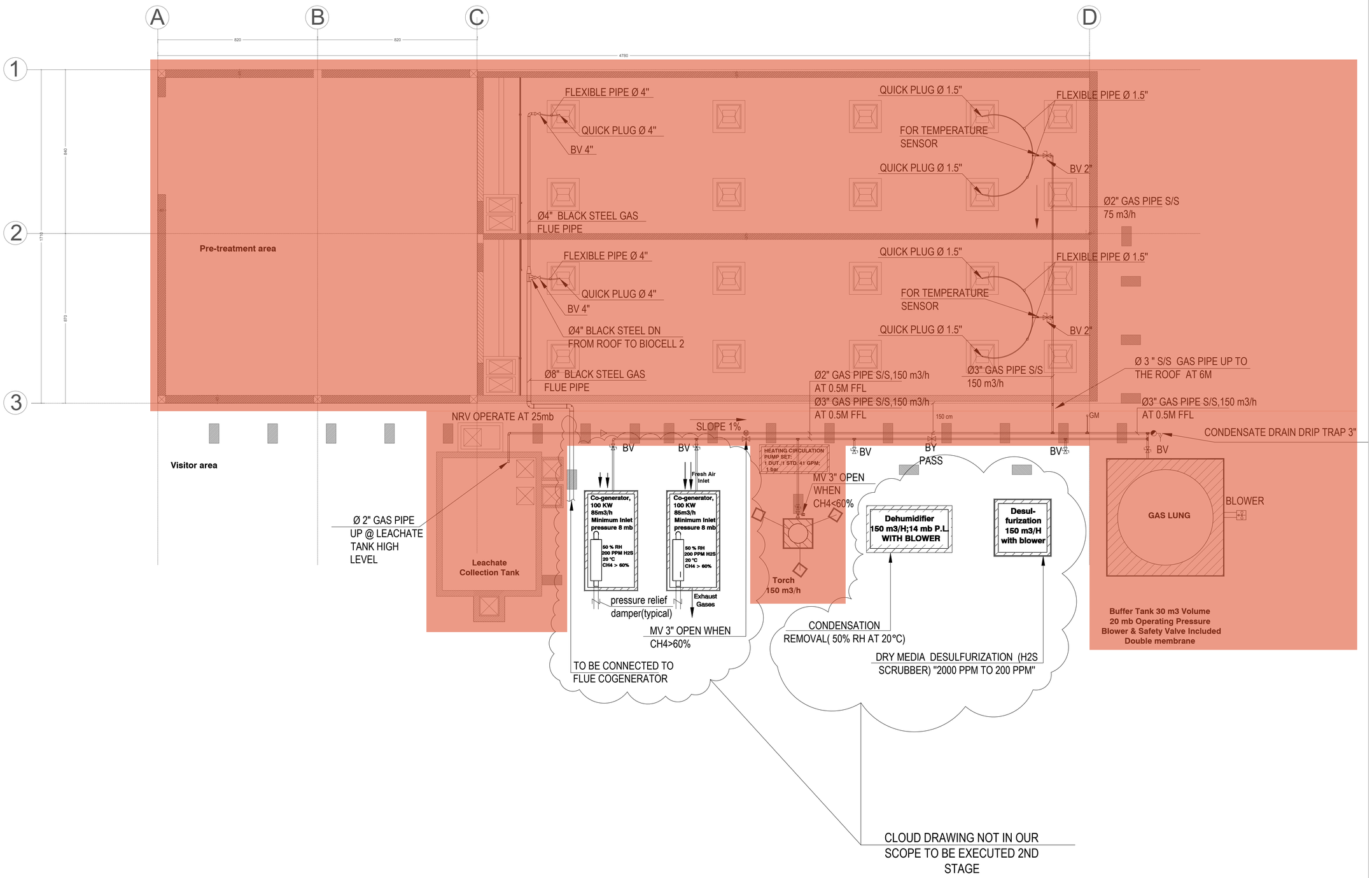
Date	9-12-2013
Scale	1/100
Checked by	M. JANBEIH
Revisions	9
Revisions	Shop Drawing

Title: Setting Out Plan layout

Drawing No: BBP-01 | Sheet: A1



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C.I.L.:	CEILING INVERT LEVEL
E.S.P.:	EXTERNAL STATIC PRESSURE
GS:	GALVANIZED STEEL
AAV:	AUTOMATIC AIR VENT
	NON RETURN VALVE OPERATE AT 25mb

Notes:

- All dimensions are in meter unless indicated otherwise
- Foundation of equipments is not final depend on material submittals
- Provisional equipments:

Provisional equipments will not be supplied by MEES under the current scope of work:

*Nitrogen Generator
*Desulfurization
*Dehumidifier
*Co-generator
*Bioflter

N

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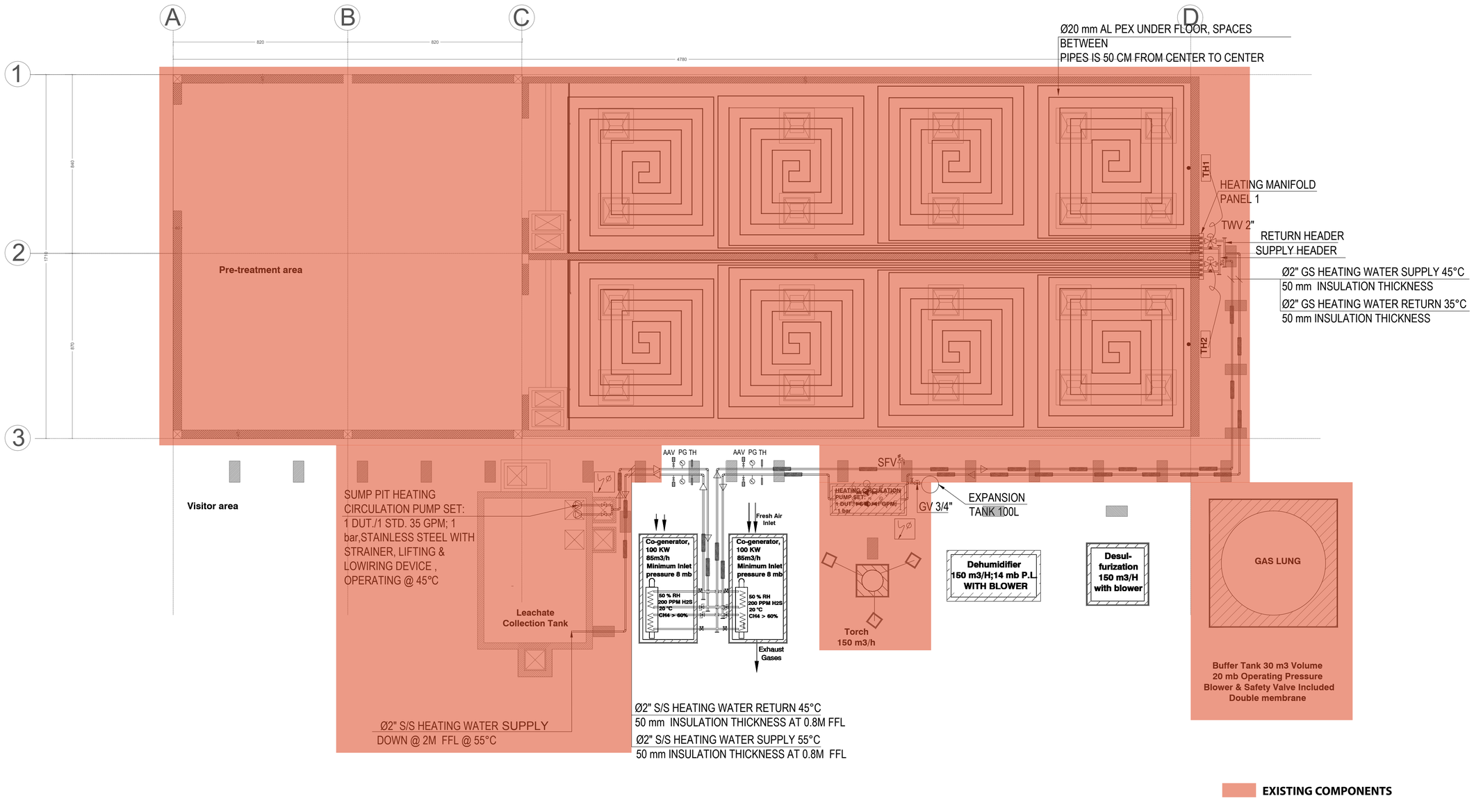
Date	9-12-2013
Scale	1/100
Checked by	M. JANBEIH
Revisions	9
Revisions	Shop Drawing

Title: GAS FLOW LAYOUT

Drawing No: BBP-06 | Sheet: A1



LEGEND:

@:	AT
H/L:	HIGH LEVEL
F.F.L:	FINISHED FLOOR LEVEL
UG:	UNDER GROUND
DN:	DOWN TO BELOW
UP:	UP TO ABOVE
CW:	COLD WATER SUPPLY PIPE
PPR:	POLYPROPYLENE PIPE
SV:	SOLENOID VALVE
GV:	CEILING INVERT LEVEL
HDPE:	HIGH DENSITY POLYETHYLENE
SP:	SPRINKLER PIPE
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SFV:	SAFETY VALVE
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DUT.:	DUTY
STD.:	STAND BY
UPVC.:	UNPLASTICIZED POLYVINYL CHLORIDE
mb:	MILLIBAR
GPM:	GALLON PER MINUTE
CFM:	CUBIC FEET PER MINUTE
ED:	EXHAUST DUCT
CH4:	METHANE
TWV:	THREE WAY VALVE
GM:	GAS METER
SG:	SUPPLY GRILL
BV:	BALL VALVE
PG:	PRESSURE GUAGE
C.I.L.:	CEILING INVERT LEVEL
TH:	THERMOMETER
GS:	GALVANIZED STEEL
AAV:	AUTOMATIC AIR VENT
	NON RETURN VALVE OPERATE AT 25mb

Notes:

- All dimensions are in meter unless indicated otherwise
- Foundation of equipments is not final depend on material submittals
- Provisional equipments:

Provisional equipments will not be supplied by MEES under the current scope of work:

*Nitrogen Generator
*Desulfurization
*Co-generator
*Biofilter

N

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Date	9-12-2013
Scale	1/100
Checked by	M. JANBEIH
Revisions	9
Revisions	Shop Drawing

Title: Heating layout

Drawing No: BBP-07 | Sheet: A1