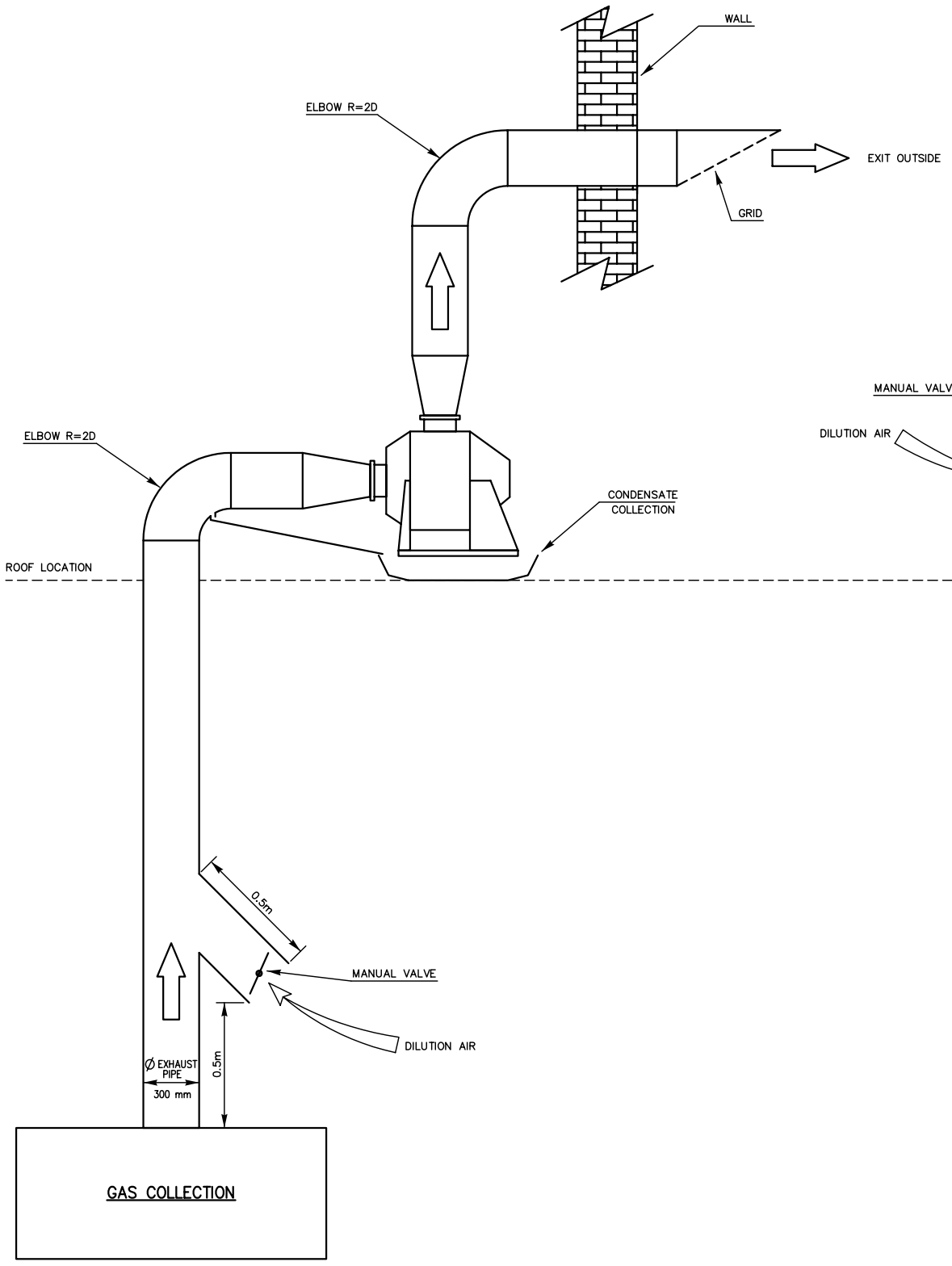
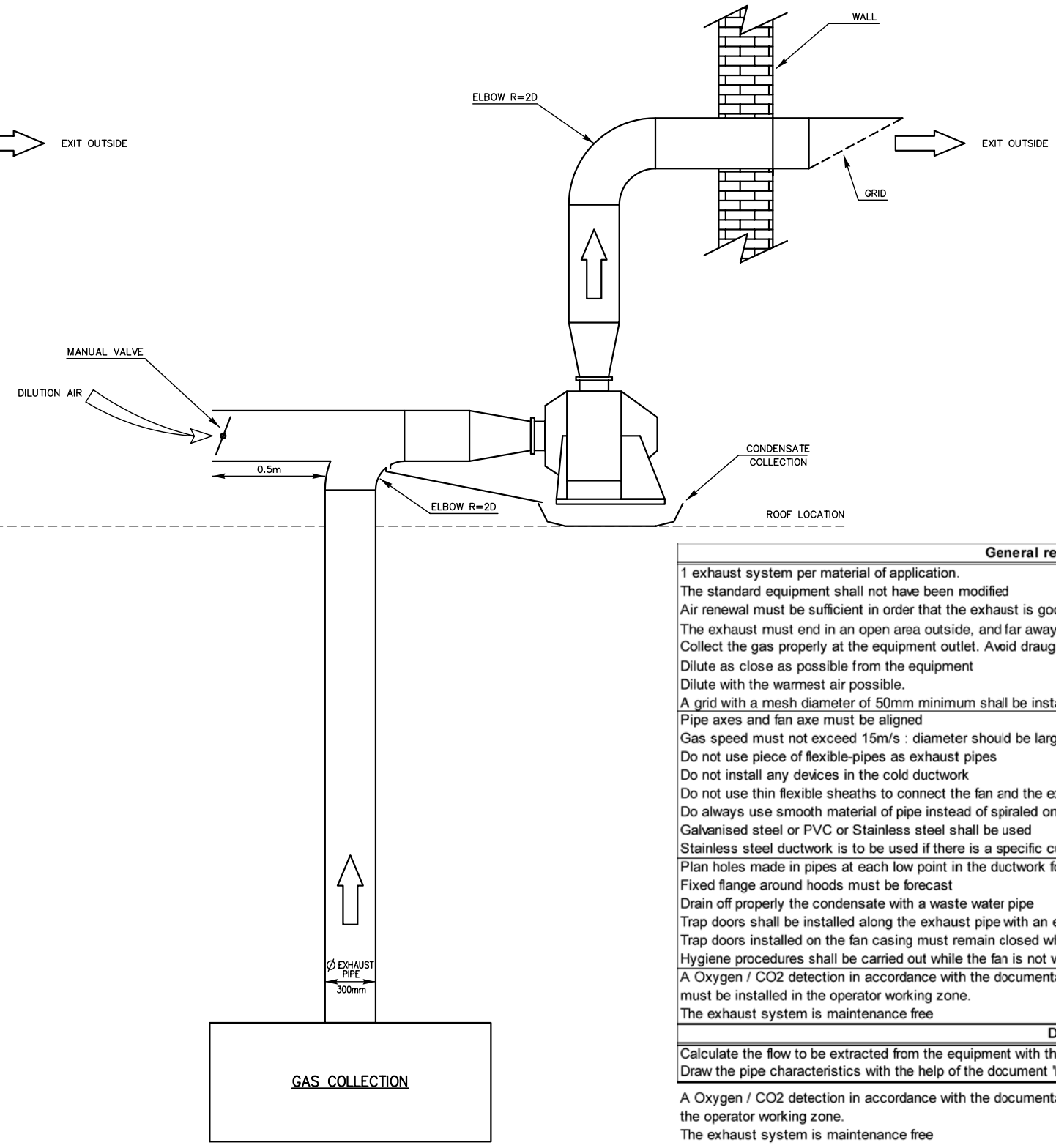
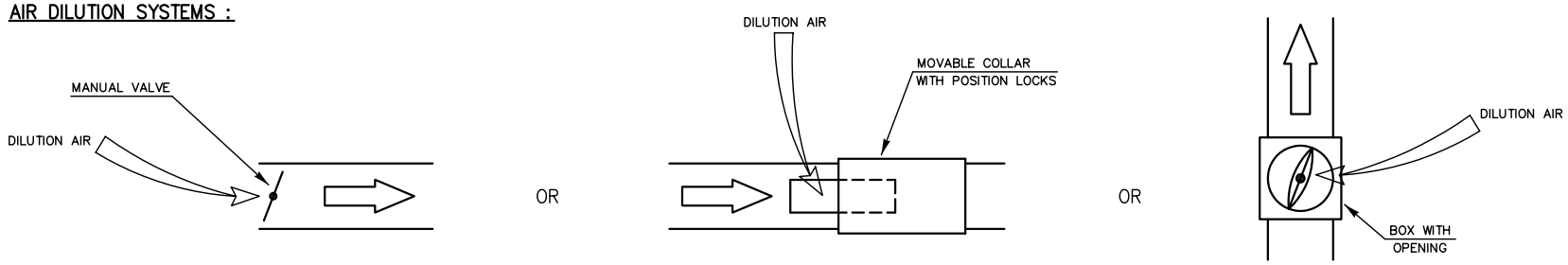


CENTRIFUGAL IF DILUTION
POSSIBLE IN WORKING ROOM



CENTRIFUGAL IF DILUTION
IMPOSSIBLE IN WORKING ROOM

AIR DILUTION SYSTEMS :



General recommandations:
1 exhaust system per material of application. The standard equipment shall not have been modified Air renewal must be sufficient in order that the exhaust is good working The exhaust must end in an open area outside, and far away from other possible entrance of fresh air. Collect the gas properly at the equipment outlet. Avoid draughts to avoid diffusion of gas in the working room. Dilute as close as possible from the equipment Dilute with the warmest air possible. A grid with a mesh diameter of 50mm minimum shall be installed to avoid animals and dirt entering the exhaust
Pipe axes and fan axe must be aligned Gas speed must not exceed 15m/s : diameter should be larger than 300mm. Do not use piece of flexible-pipes as exhaust pipes Do not install any devices in the cold ductwork Do not use thin flexible sheaths to connect the fan and the exhaust pipe Do always use smooth material of pipe instead of spiraled one Galvanised steel or PVC or Stainless steel shall be used Stainless steel ductwork is to be used if there is a specific customer request
Plan holes made in pipes at each low point in the ductwork for internal condensate collection Fixed flange around hoods must be forecast Drain off properly the condensate with a waste water pipe Trap doors shall be installed along the exhaust pipe with an easy access. Trap doors installed on the fan casing must remain closed while exhaust fan is working. Hygiene procedures shall be carried out while the fan is not working and LIN or LCO2 supply is closed.
A Oxygen / CO2 detection in accordance with the documentation **'RTS F02-01'** and local regulations must be installed in the operator working zone. The exhaust system is maintenance free
Design :
Calculate the flow to be extracted from the equipment with the help of the document '**E-CRYO-04-EN-DS-503 Design tool**' Draw the pipe characteristics with the help of the document '**E-CRYO-04-EN-DS-503 Design tool**'

A Oxygen / CO2 detection in accordance with the documentation **'RTS F02-01'** and local regulations must be installed in the operator working zone.
The exhaust system is maintenance free

REV	DATE	DESSINE PAR	MODIFICATIONS	VERIFIE PAR	APPROUVE PAR
0	07/11/04	TVA/ALH	FIRST ISSUE	–	–
REV	*DATE*	*DRAWN BY*	*REVISIONS*	*CHECKED BY*	*APPROVED BY*

AFFAIRE / *JOB*
STANDARD CRYOGENIC INSTALLATION

ENSEMBLE / *PART*
EXHAUST SYSTEM

TITRE / *TITLE*
CENTRIFUGAL CONFIGURATION

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Equipment & Engineering

ECHELLE *SCALE*	N° D'AFFAIRE *JOB NUMBER*	FMT TYP GROUPE N° *FMT TYP GROUP NBR*	
–	–	E_CRYO-04-EN-DRW-503	0

CAD SOURCE : E_CRYO-04-EN-DRW-503.DWG