

Recommended gradients for drain-lines are as follows:

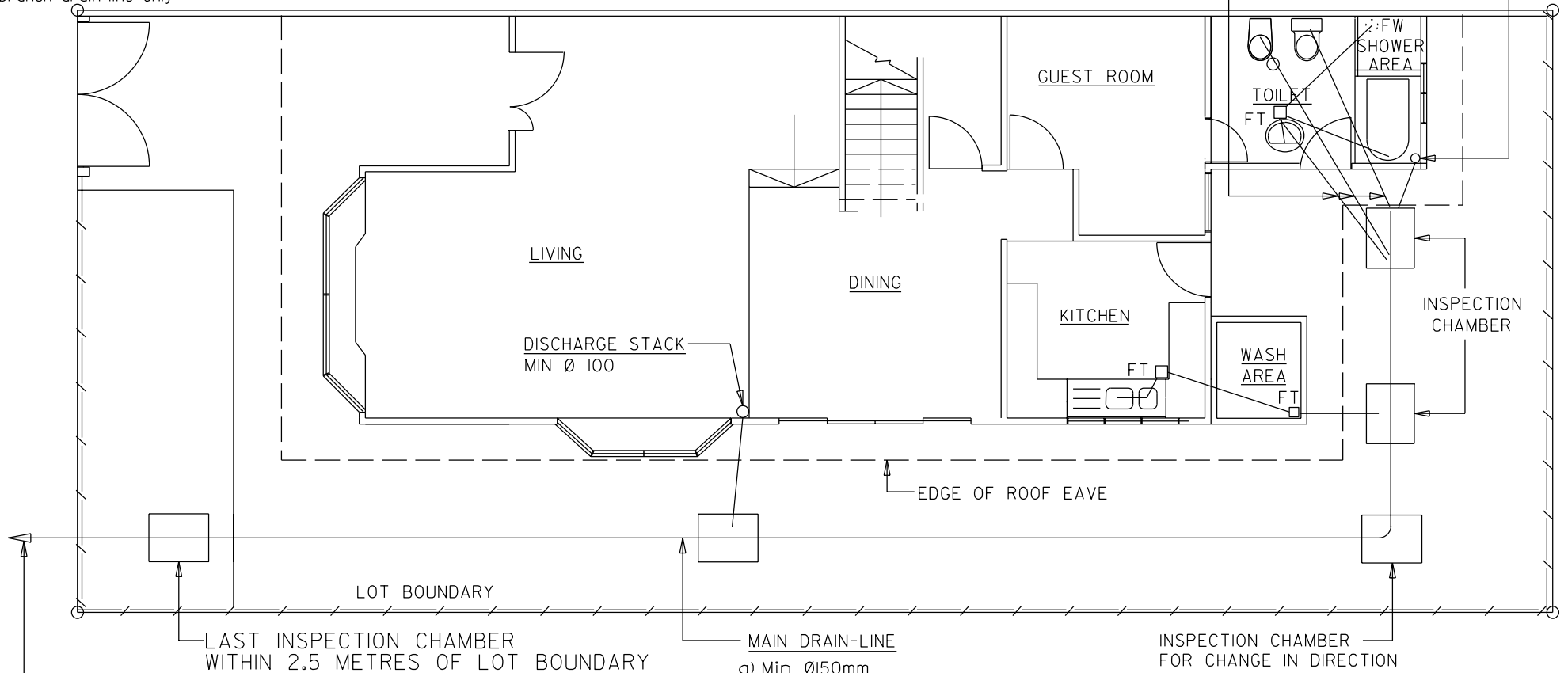
Dia.	Maximum Gradient	Minimum Gradient	Maximum Gradient at upstream of Backdrop or tumbling bay
100mm*	1:20	1:60	-
150mm	1:30	1:90	1:70

\* For branch drain-line only

BRANCH DRAIN-LINE

- a) Ø100mm - Max 10m
- b) Ø150mm for connection to IC with backdrop/tumbling bay (refer to clause 3.1.3.1(b) & details in Drawing no. 3-3) - max 20m

MIN Ø 100  
VENTILATING STACK  
TO FIRST INSPECTION  
CHAMBER



MAIN DRAIN-LINE

- a) Min Ø150mm
- b) Max distance 50m
- c) Significant differences in invert levels between ICs
  - Tumbling Bay / Backdrop can be provided
- d) Inspection Chamber to be provided for :
  - Change of direction
  - Change of gradient
  - Change of pipe diameter / material

CONNECTION TO MANHOLE - MIN. Ø200mm  
CONNECTION TO SEWER VIA RAISED/Y-JUNCTION - SAME SIZE AS THE SEWER (MIN. Ø150mm)

LEGEND

- |  |           |  |                |  |          |
|--|-----------|--|----------------|--|----------|
|  | WC        |  | FT FLOOR TRAP  |  | Longbath |
|  | BIDET     |  | FW FLOOR WASTE |  | SINK     |
|  | WASHBASIN |  | BT BIDET TRAP  |  |          |

ALL DIMENSIONS ARE IN mm.

LAYOUT OF SANITARY DRAINAGE SYSTEM