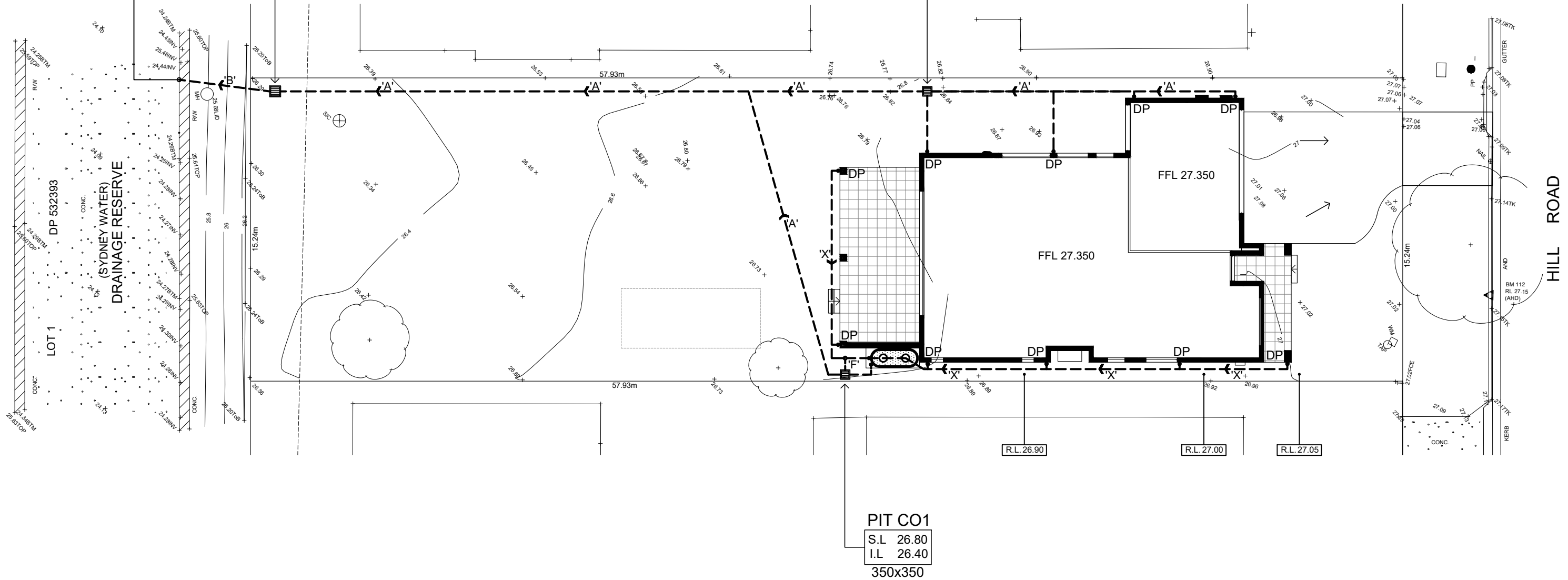


CONNECT TO SYDNEY WATER'S OPEN CHANNEL IN ACCORDANCE WITH THE DETAILS SHOWN ON STANDARD DRAWING STW-1104 & ALL RELEVANT SYDNEY WATER SPECIFICATIONS

PIT P1
S.L. 26.30
I.L. 25.90
450x450

PIT P2
S.L. 26.85
I.L. 26.45
350x350



SITE STORMWATER MANAGEMENT LAYOUT
SCALE 1:200/A3

PIPE SCHEDULE

TAG	SIZE	MATERIAL	GRADE	DESCRIPTION
'A'	100 Ø	P.V.C	1% MIN	REGULAR GRAVITY PIPE
'B'	150 Ø	P.V.C	1% MIN	REGULAR GRAVITY PIPE
'X'	100 Ø	P.V.C	CHARGED	TO FEED RAINWATER TANK
'F'	100 Ø	P.V.C	1% MIN	FLUSHING LINE - CAPPED END

NOTE: ALL PIT & PIPELINE LOCATIONS SHOWN ON PLAN ARE INDICATIVE. BUILDER TO DETERMINE BEST POSITION FOR PLACEMENT WITHIN A 1m TOLERANCE OF WHAT IS SHOWN ON PLAN

LEGEND

P1	PIT LABEL	G.F.L.	GARAGE FLOOR LEVEL
	SUMP PIT - PIT SIZE REFERS TO GRATE DIMENSIONS	• 0.00	EXISTING REDUCED LEVEL
	300x300 FLOOR GULLY	• R.L. 157.00	PROPOSED REDUCED LEVEL
	100/150 Ø GARDEN GULLY	■ DP	DOWNPIPE
	DRAINAGE PIPE	└ SP	SPITTER/SPREADER
	AERIAL PIPE	⊙	CLEANING EYE
S.L.	SURFACE LEVEL	—	SEDIMENT FENCE
I.L.	INVERT LEVEL	—	AG LINE
F.F.L.	FINISHED FLOOR LEVEL	→	OVERLAND FLOW

RAINWATER TANK AS SHOWN ON PLAN

PROVIDE A RAINWATER TANK 3000L IN CAPACITY TO SUIT ALL BASIX REQUIREMENTS. TANK TO BE CONNECTED AS SPECIFIED IN BASIX REPORT.

ENSURE ALL CONNECTIONS WITHIN CHARGED SYSTEM ARE SOLVENT WELDED

ALL DOWNPIPES ARE TO BE ENTIRELY PVC. PIPES ARE TO BE SEALED UP TO U/S OF ROOF GUTTERS

ROOF GUTTERS I.L. 29.93
TANK INLET I.L. 28.49
HEAD PRESSURE - 1440mm

STORMWATER LAYOUT NOTES

- 1) PITS DEEPER THAN 600mm TO BE 600 X 900 W, ELSE 375 SQ U.N.O.

2) ALL PIPES TO HAVE 1% MIN. GRADE U.N.O.

3) ALL DOWNPIPES TO BE 100 X 50 BOX OR 90 Ø.

4) PIPES TO BE U.P.V.C. OR STORMWATER PIPE TO A.S.1254.

5) PITS TO BE STANDARD PRECAST CONCRETE PITS OR BRICK RENDERED WITH CONCRETE HEAVY DUTY GRATES SIZED AS PITS PER PLAN.

6) NO SEWER VENTS, GULLY PITS OR SIMILAR TO BE LOCATED BELOW THE MAXIMUM WATER SURFACE LEVEL IN DETENTION BASINS.

7) PERSONS UTILISING THIS PLAN FOR ANY PURPOSES SHALL VERIFY THE DATUM & RESPECTIVE LEVELS PRIOR TO COMMENCING ANY WORKS & NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 8) DRIVEWAY LEVELS PROVIDED FOR DRAINAGE DESIGN PURPOSES ONLY. LEVELS MAY BE ADJUSTED TO SUIT FINAL HOUSE CUT/FILL CONDITIONS BUT NEED TO MAINTAIN INTENT OF DRAINAGE SYSTEM. ENGINEER TO BE CONSULTED PRIOR TO CONSTRUCTION TO ENSURE INTENT MAINTAINED.

9) END OF EXISTING DRAINAGE LINE TO BE EXPOSED & LEVELS CONFIRMED BY BUILDER PRIOR TO COMMENCEMENT OF WORKS.

10) BUILDERS TO ENSURE SERVICES CONNECTIONS TO HOUSE DO NOT CONFLICT WITH DRAINAGE DESIGN REQUIREMENTS.

11) ALL WORKS TO BE CONSTRUCTED TO GOOD BUILDING PRACTICE & MATERIALS TO MEET ACCEPTED SPECIFICATIONS.

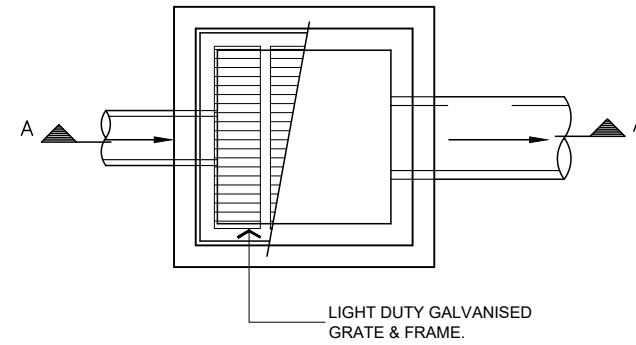
alwdesign
CIVIL ENGINEERING CONSULTANTS

P: 02 9802 5509 E: admin@alwdesign.com.au
M: 0413 763 432 69 DELANGE ROAD, PUTNEY NSW 2112

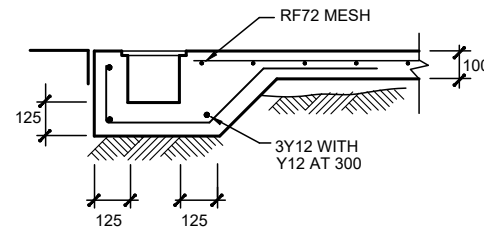
JOB NUMBER:
SW25004
DRAWING NUMBER:
SW25004 - S1

PROJECT:	PROPOSED RESIDENTIAL DWELLING AT LOT 112, # 83 HILL ROAD, BIRROING NSW		
DRAWING:	SITE STORMWATER MANAGEMENT LAYOUT		
DESIGNED	DRAWN	CHECKED:	ANDREW L WAHBE - BE (CIVIL) MIEAUST PENG
A.W	N.W	DRAWINGS NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED BY DESIGNING ENGINEER	
B	ISSUED FOR DEVELOPMENT APPLICATION		31/01/25
ISSUE	REVISION DESCRIPTION		APPR. DATE

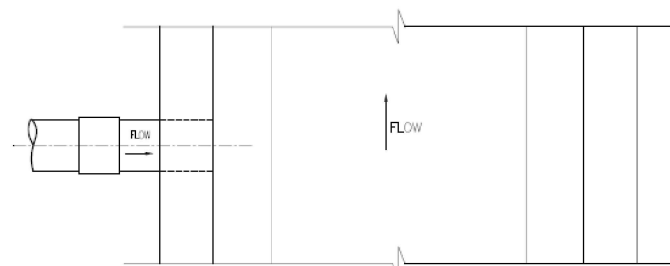
NOTE, ALL PIT SIZES SHOWN ON PLAN
REFLECT THE REQUIRED GRATE DIMENSION



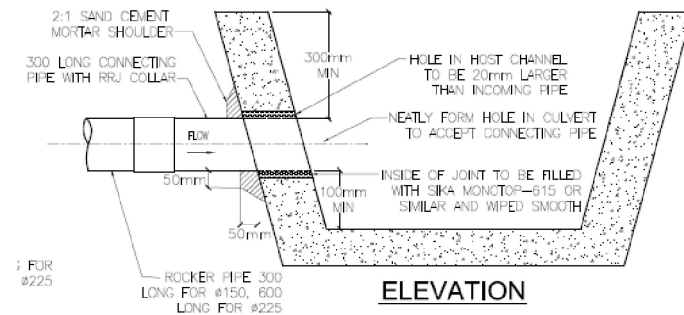
TYPICAL PIT DETAIL



GRATED DRAIN



PLAN



ELEVATION

TYPE C4 - CONNECTION TO
OPEN CHANNEL

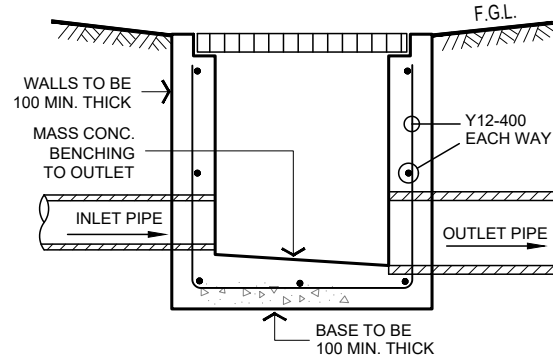
TABLE C4 - SYDNEY WATER
STORMWATER OPEN CHANNEL

CONNECTING STORMWATER SIZE (mm)	RECEIVING STORMWATER		RISER TYPE (REFER DRG STW1102)	CONNECTION TYPE (REFER DRG (STW1104)	SILT ARRESTOR TYPE (REFER DRG STW1107)
	SIZE (mm)	DEPTH (m)			
100/150/225	ALL	<1.2	NOT REQUIRED	TYPE C4	TYPE S2
		1.2-2.0			
		2.0-3.0			
		>3.0	SITE SPECIFIC (DESIGN BY ENGINEER)		

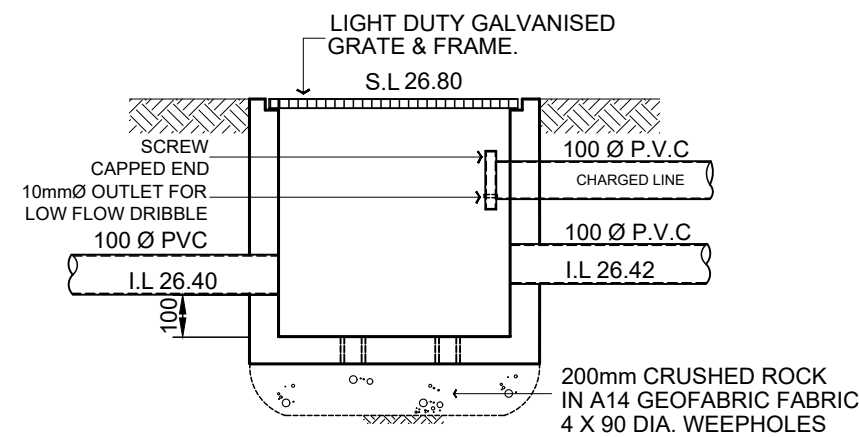
EXTRACTS FROM SYDNEY WATER'S STANDARD DRAWINGS
FOR STORMWATER CONNECTIONS 'STW-1104'

IN TRAFFICABLE AREAS
BRICKWORK/BLOCKWORK WALLS OR
PRECAST CONCRETE PITS MAY BE USED
SUBJECT TO APPROVAL

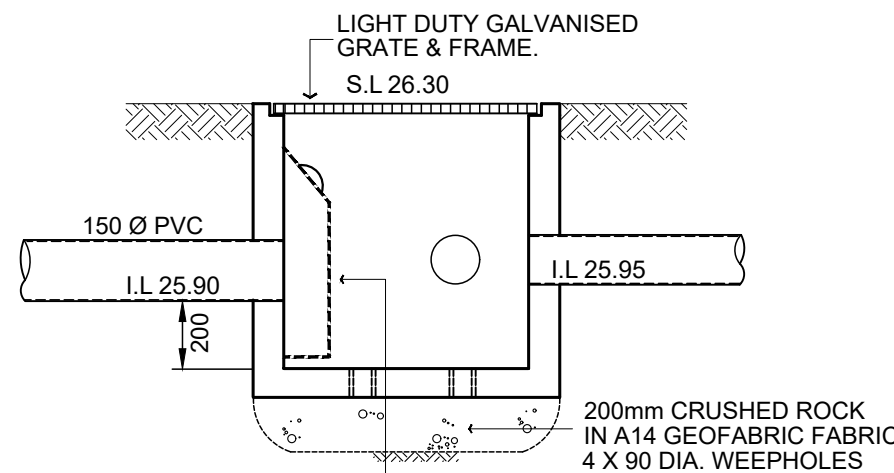
IN NON-TRAFFICABLE AREAS
FIBRE-GLASS OR
HARD-PLASTIC PITS MAY BE USED
SUBJECT TO APPROVAL



TYPICAL SECTION A

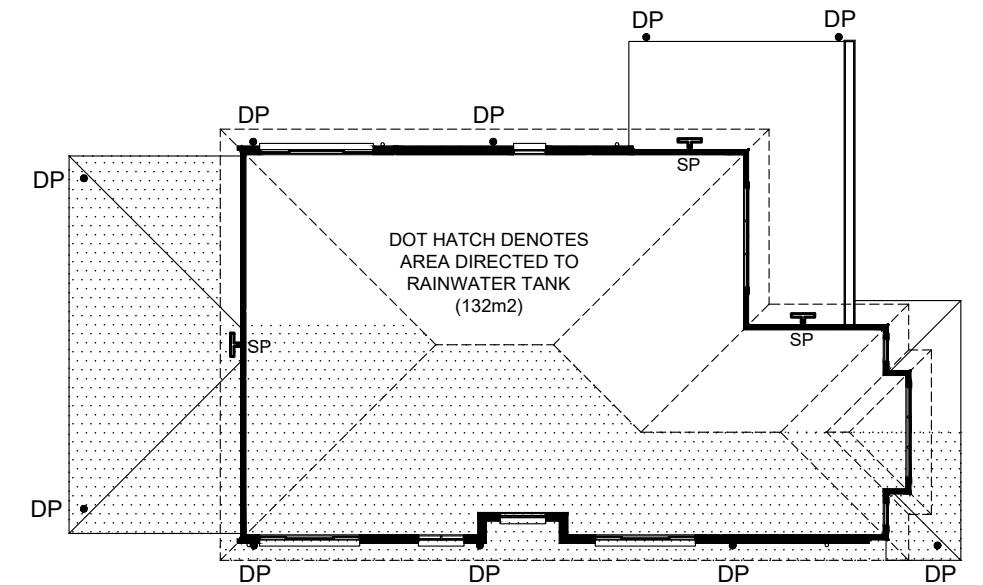


PIT CO1 - 350x350
CLEAN-OUT PIT
FOR CHARGED LINE SYSTEMS



REMOVABLE RECTANGULAR
SCREEN HOT DIPPED GALV.
LYSAGHT MAXIMESH TYPE
RH3030 WITH HANDLE

PIT P1 - 450x450



GUTTER SELECTED: STRAMIT INFINITILINE QUAD GUTTER - SLOTTED;
AREA = 5200 SQ.MM

ALL DOWNPIPES TO BE 90 Ø MIN

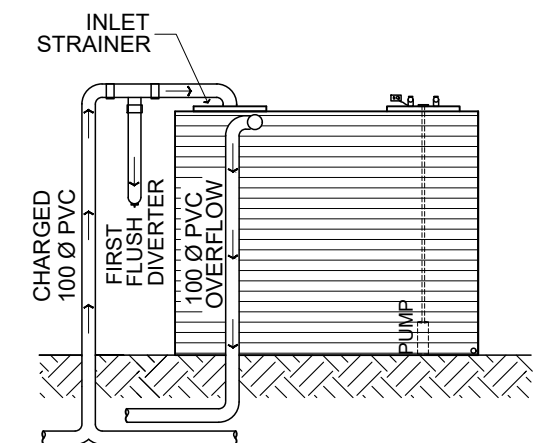
ROOF & FIRST FLOOR LAYOUT

SCALE 1:200/A3

ENSURE ALL CONNECTIONS
WITHIN CHARGED SYSTEM
ARE SOLVENT WELDED

ALL DOWNPIPES ARE TO BE
ENTIRELY PVC. PIPES ARE TO
BE SEALED UP TO U/S OF
ROOF GUTTERS

ROOF GUTTERS I.L. 29.93
TANK INLET I.L. 28.49
HEAD PRESSURE - 1440mm



EVOLUTION MkIII RAINWATER TANK
CONFIGURATION BY KINGSPAN

alwdesign
CIVIL ENGINEERING CONSULTANTS

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M: 0413 763 432 69 DELANGE ROAD, PUTNEY NSW 2112

JOB NUMBER:
SW25004
DRAWING NUMBER:
SW25004 - S2

PROJECT: PROPOSED RESIDENTIAL DWELLING AT
LOT 112, # 83 HILL ROAD, BIRROING NSW
DRAWING: ROOF LAYOUT & GENERAL DETAILS
DESIGNED: A.W. DRAWN: N.W. CHECKED: ANDREW L WAHBE - BE (CIVIL) MIEAUST PENG
B. ISSUED FOR DEVELOPMENT APPLICATION 31/01/25
ISSUE REVISION DESCRIPTION APPR. DATE