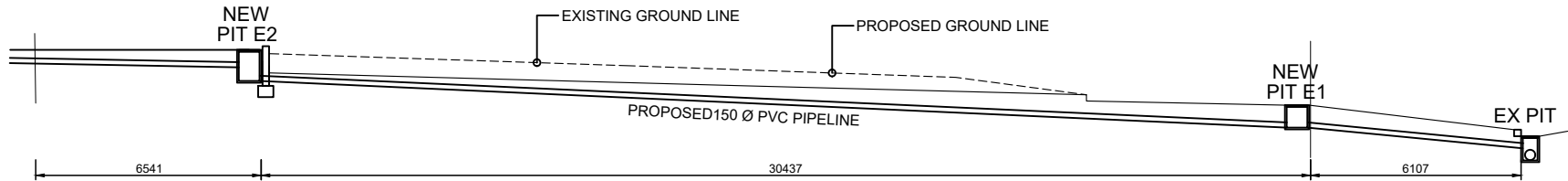


SITE STORMWATER MANAGEMENT LAYOUT

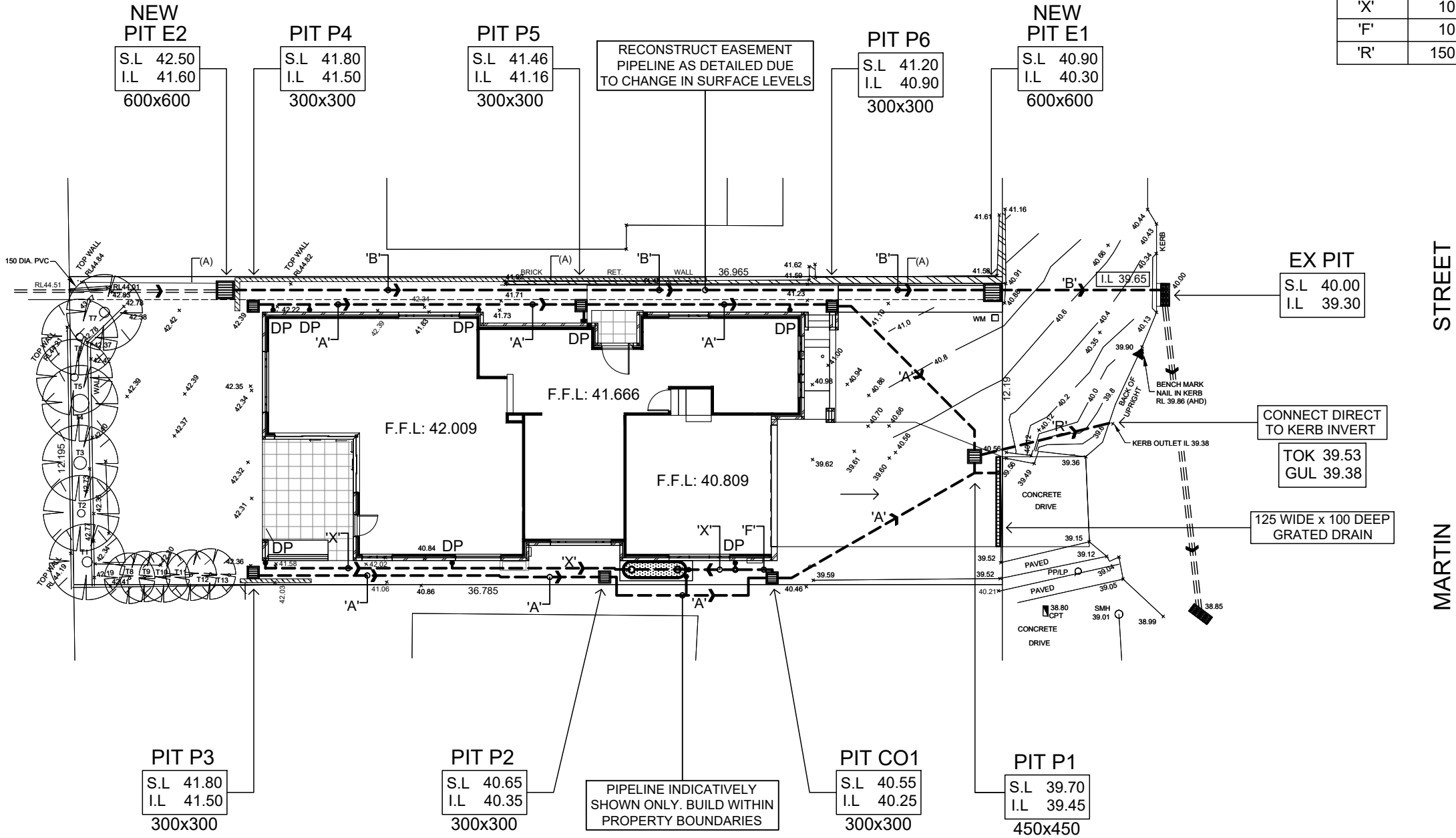
SCALE 1:200/A3



PROPOSED EASEMENT PIPELINE LONGSECTION
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
'R'	150x100	GALV RHS	1% MIN	DISCHARGE PIPE TO KERB



NOTE, ON SITE DETENTION IS NOT REQUIRED AS THE SITE AREA IS LESS THAN 450m2

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 UPTO U/S OF ROOF GUTTERS

ROOF GUTTERS I.L. 44.66
TANK INLET I.L. 42.40
HEAD PRESSURE - 2260mm

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.

LEGEND

P1	PIT LABEL	G.F.L.	GARAGE FLOOR LEVEL
	SUMP PIT	• 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

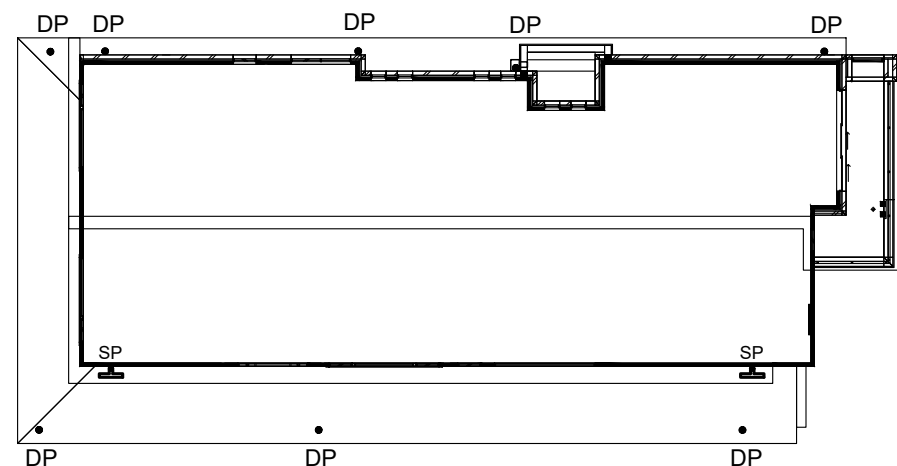
alwdesign
CIVIL ENGINEERING CONSULTANTS

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

JOB NUMBER:
SW22023
DRAWING NUMBER:
SW22023 - S1

PROJECT: PROPOSED RESIDENTIAL DWELLING AT
LOT 5, # 46 MARTIN STREET, FRESHWATER NSW
DRAWING: SITE STORMWATER MANAGEMENT LAYOUT

DESIGNED	DRAWN	CHECKED:	ANDREW L WAHBE - BE (CIVIL) MIEAUST PENG
A.W	N.W		
A	ISSUED FOR DEVELOPMENT APPLICATION		23/02/22
ISSUE	REVISION DESCRIPTION		APPR. DATE

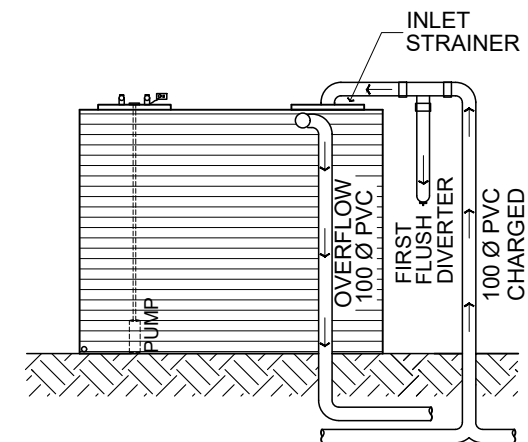


ROOF & FIRST FLOOR LAYOUT
SCALE 1:200/A3

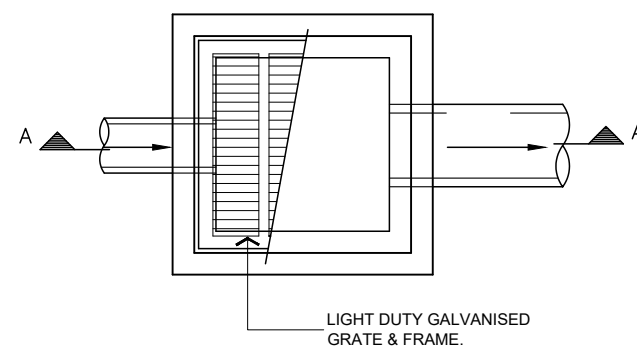
ENSURE ALL CONNECTIONS
WITHIN CHARGED SYSTEM
ARE SOLVENT WELDED

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

ROOF GUTTERS I.L. 44.66
TANK INLET I.L. 42.40
HEAD PRESSURE - 2260mm



**EVOLUTION MkIII RAINWATER TANK
CONFIGURATION BY KINGSPAN**



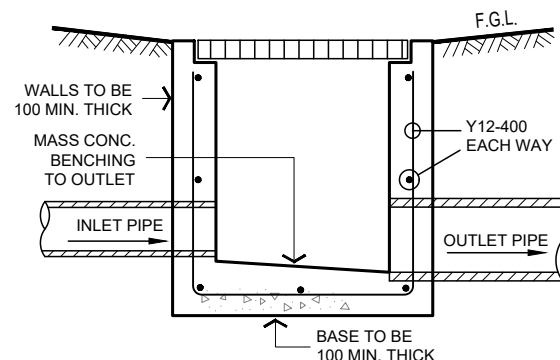
TYPICAL PIT DETAIL

IN TRAFFICABLE AREAS

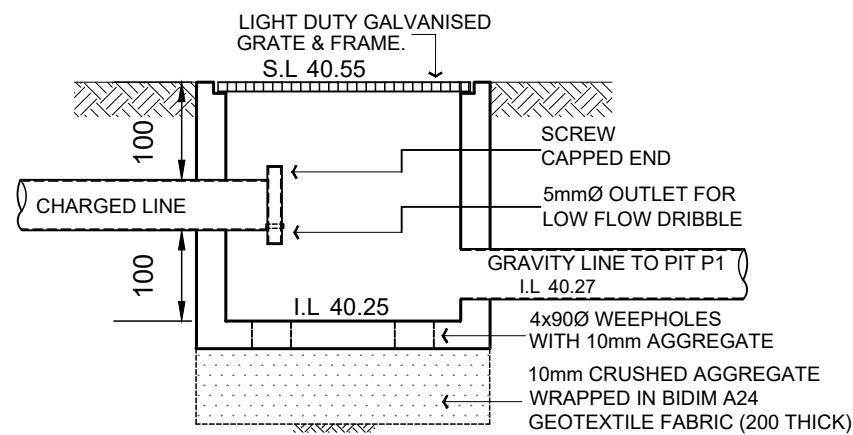
BRICKWORK/BLOCKWORK WALLS OR
PRECAST CONCRETE PITS MAY BE USED
SUBJECT TO APPROVAL

IN NON-TRAFFICABLE AREAS

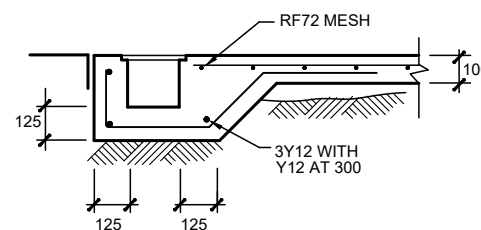
FIBRE-GLASS OR
HARD-PLASTIC PITS MAY BE USED
SUBJECT TO APPROVAL



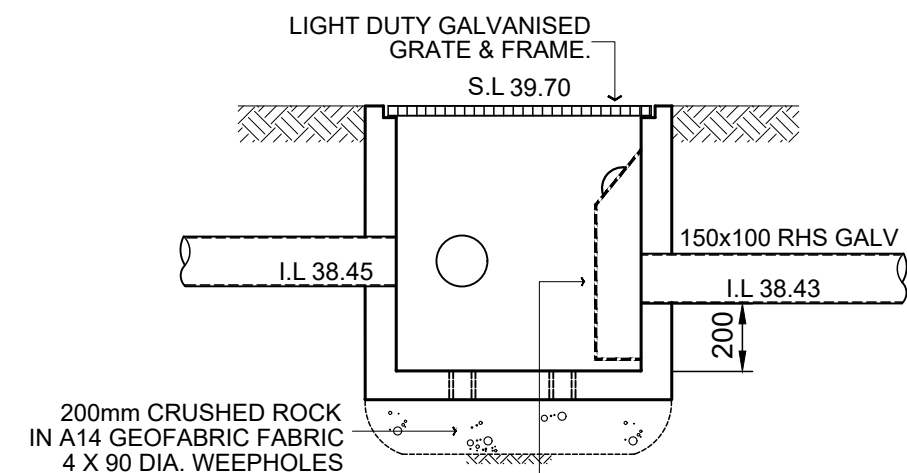
TYPICAL SECTION A



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



GRATED DRAIN



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

PIT P1 - 450x450

alwdesign
CIVIL ENGINEERING CONSULTANTS

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JOB NUMBER:
SW22023
DRAWING NUMBER:
SW22023 - S2

PROJECT:	PROPOSED RESIDENTIAL DWELLING AT LOT 5, # 46 MARTIN STREET, FRESHWATER NSW		
DRAWING:	ROOF LAYOUT & GENERAL DETAILS		
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	
A	ISSUED FOR DEVELOPMENT APPLICATION		23/02/22
ISSUE	REVISION DESCRIPTION		APPR. DATE