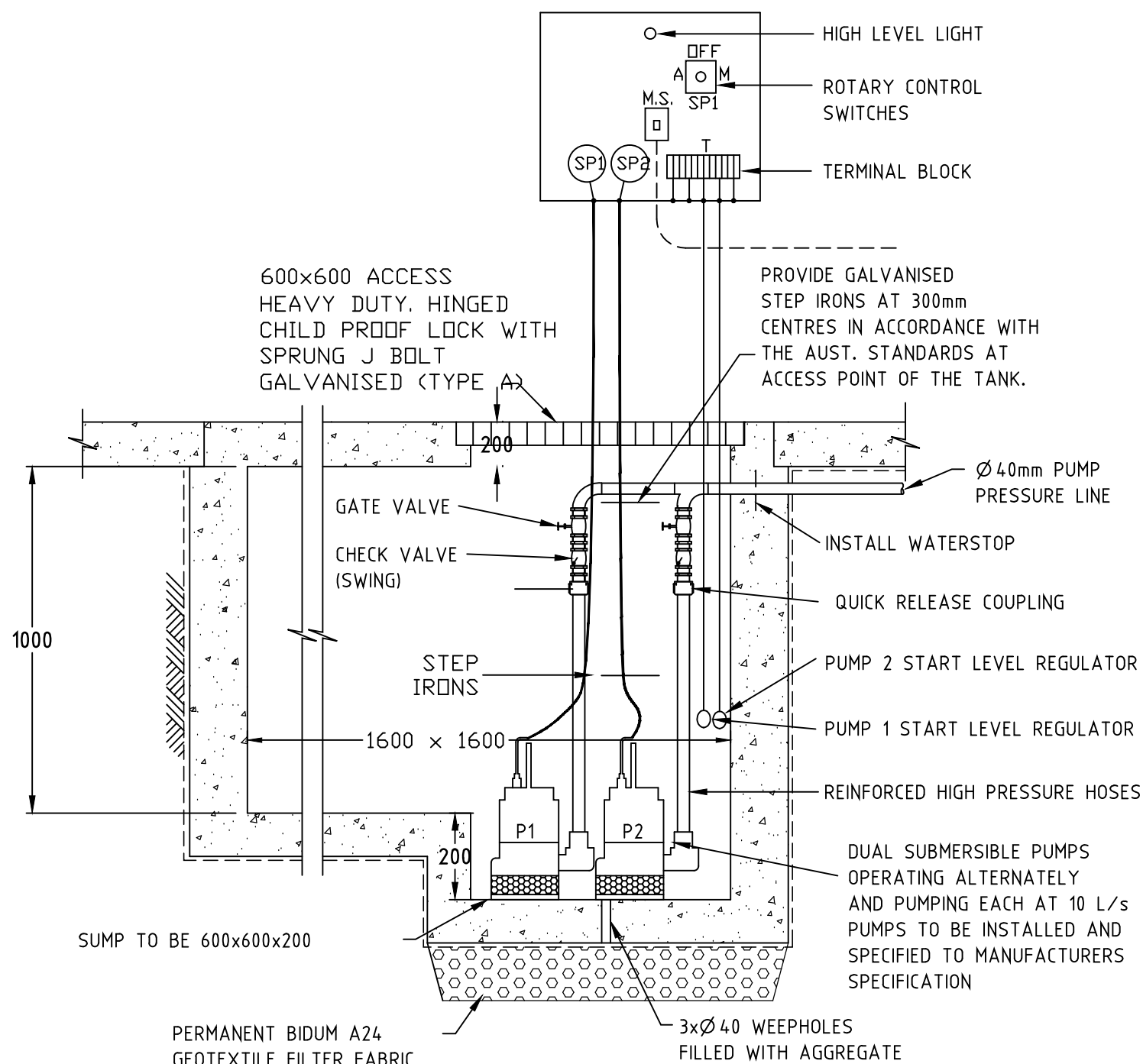
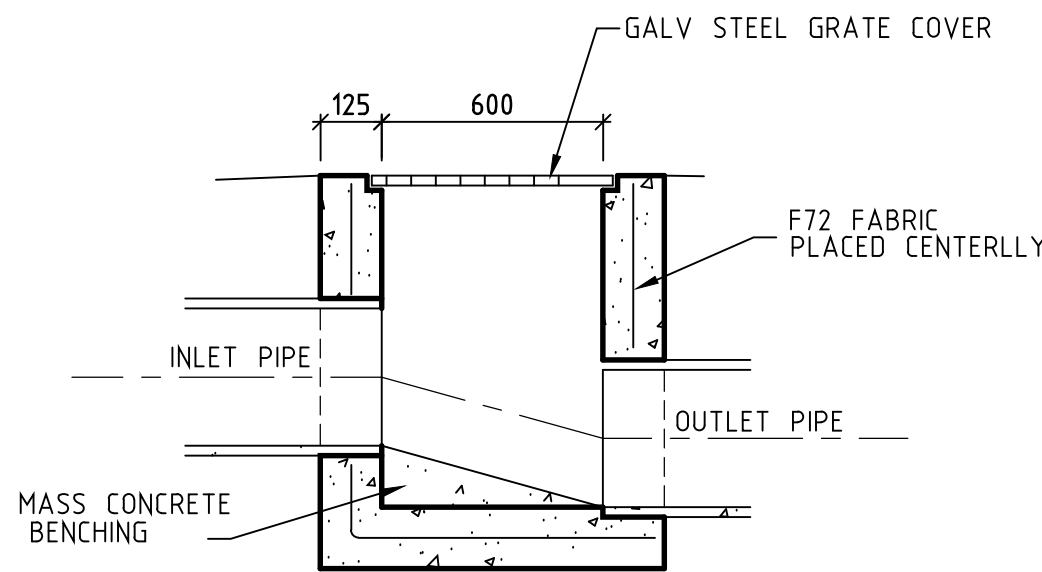


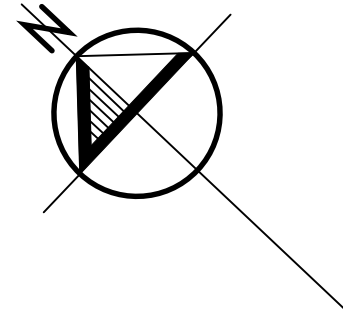
BASEMENT LEVEL - STORMWATER DRAINAGE PLAN
(SCALE 1:100)



SECTION THROUGH PUMP WELL
N.T.S.



SECTION OF DRAINAGE PIT



PUMP WELL DETAILS

SUMP SIZE AND PUMP SIZE BASED ON 100 YEAR 90MIN STORM INTENSITY 73.73
DRIVEWAY 22.73 SQM
VOLUME = 0.07373 * 22 / 3600 * 90 * 60 / 1000 = 2.43 M³
STORAGE PROVIDED 1.6 * 1.6 * 1.0 DEEP
PUMP OUT RATE BASED ON 5YR 60MIN STORM = 39.2 mm/hr
PUMP RATE = 22.0 * 39.2 / 3600 = 0.25 Lit/Sec MIN
DUAL PUMPS TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMPS TO ACT ALTERNATIVELY PUMPING 1.0 Lit/Sec at 5m HEAD (min).

PUMP NOTES

1. THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY SO AS TO ALLOW BOTH PUMPS EQUAL OPERATION TIME AND PUMP LIFE.
2. PUMPS SHALL BE CONTROLLED BY FLOAT SWITCHES. A LOW LEVEL FLOAT SHALL BE INSTALLED TO ENSURE THAT THE MINIMUM DESIGN WATER LEVEL IS MAINTAINED WHEREBY THE PUMPS ARE SWITCHED OFF.
3. A HIGH LEVEL FLOAT SHALL BE INSTALLED WHEREBY THE PUMPS WILL OPERATE ALTERNATELY AND DRAIN THE SUMP TO THE LOW LEVEL FLOAT BEFORE SWITCHING OFF.
4. A MAXIMUM LEVEL FLOAT SHALL BE INSTALLED APPROXIMATELY 350 BELOW THE GRATE LEVEL. THIS FLOAT WILL ACTIVATE THE SECOND DORMANT PUMP AND TRIGGER THE ALARM.
5. AN ALARM SYSTEM (FLASHING FOR PUMP 1 FAILURE AND AUDIBLE FOR BOTH PUMP FAILURE) SHALL BE INSTALLED WITH A FLASHING STROBE LIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE. THE ALARM SHALL BE PROVIDED WITH A BACK-UP BATTERY IN THE EVENT OF POWER FAILURE.

WARNING - SERVICES

www.dialbeforeyoudig.com.au



NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE
DEVELOPERS & EXCAVATORS MAY BE HELD FINANCIALLY RESPONSIBLE BY THE ASSET OWNER SHOULD THEY DAMAGE UNDERGROUND NETWORKS.

GENERAL NOTES

- 1) ALL WORK SHALL BE IN ACCORDANCE WITH COUNCIL SPECIFICATIONS.
- 2) ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH THE RELEVANT SAA CODES.
- 3) CONTRACTOR SHALL VERIFY THE VALUE OF THE BM PRIOR TO COMMENCEMENT OF WORK.
- 4) MAKE SMOOTH JUNCTION WITH ALL EXISTING WORKS.
- 5) ALL STORMWATER PIPES AND PITS SHALL BE INSTALLED IN ACCORDANCE WITH AS 3500.3 NATIONAL PLUMBING AND DRAINAGE - STORMWATER DRAINAGE NOTWITHSTANDING COUNCIL REQUIREMENTS.
- 6) ALL STORMWATER PIPES UNDER TRAFFICABLE AREAS SHALL BE SEWER GRADE uPVC.
- 7) MINIMUM 100 mm PIPE COVER TO NATURAL SURFACE OR UNDERSIDE PAVEMENT.
- 8) ALL STORMWATER PIPES FROM DPS SHALL BE 100 uPVC LAID AT 1% MINIMUM U.N.O.
- 9) ALL STORMWATER PIPES FROM PITS SHALL BE 150 uPVC LAID AT 1% MINIMUM U.N.O.
- 10) ALL PITS SHALL BE PROVIDED WITH 100 0 WEEP HOLES IN THE UPSTREAM WALL AND BE STREAMLINED WITH MASS CONCRETE BENCHING AND HAVE INTERNAL DIMENSIONS COMPLYING WITH THE FOLLOWING TABLE :-

DEPTH < 600 mm	450 mm SQUARE
600 < DEPTH < 900 mm	600 mm SQUARE
900 < DEPTH < 1200 mm	600 x 900 mm WITH STEPS IRONS @ 300 Ctrs
1200 < DEPTH	900 mm SQUARE WITH STEPS IRONS @ 300 Ctrs
- 11) ALL PITS SHALL BE PRE-CAST OR CAST IN-SITU CONCRETE OR APPROVED EQUAL.
- 12) GRATES AND COVERS SHALL MATCH THE CLASS SPECIFIED AND SHALL COMPLY WITH AS3996. ALL GRATES AND COVERS SHALL BE TRAFFICABLE BY BICYCLES AND WHEEL CHAIRS. CLASS IS SPECIFIED BEFORE LOADING, AS FOLLOWS:-
A-XLT-EXTRA LIGHT, B-LT-LIGHT, C-MT -MEDIUM, D-HT -HEAVY, E-XHT-EXTRA HEAVY, F-XXHT-SUPER EXTRA HEAVY
- 13) DRAINAGE CALCULATIONS AND CAPACITIES HAVE BEEN ASSESSED AS FOLLOWS :-
(A) 10 Yr ARI FOR PITS (NODES) AND PIPES
(B) 20 Yr ARI FOR EAVES GUTTERS
(C) 100 Yr ARI FOR BOX GUTTERS - U.N.O.
- 14) ON SITE DETENTION AND PERMISSIBLE SITE DISCHARGE HAVE BEEN CALCULATED IN ACCORDANCE WITH COUNCIL'S STORMWATER CODE.
- 16) VEHICLE CROSSINGS SHALL BE INSTALLED TO COUNCIL SPECIFICATIONS AND LEVELS.
- 17) ALL EXISTING SERVICES IN ROAD RESERVE SHALL BE IDENTIFIED PRIOR TO CONSTRUCTION AND RELOCATED AS REQUIRED AT THE DEVELOPERS EXPENSE.
- 18) ALL CONTROL MEASURES USED SHALL BE IN ACCORDANCE WITH THE DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT PUBLICATION DATED 1992, TITLED "URBAN EROSION AND SEDIMENT CONTROL".
- 19) SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE SET IN PLACE PRIOR TO ANY WORKS COMMENCING.
- 20) ALL CONTROL MEASURES SHALL ALSO BE INSTALLED TO THE SATISFACTION AND DIRECTION OF THE COUNCIL'S ENGINEER.
- 21) THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM SUCH DEVICES BEFORE NO MORE THAN 60% OF THEIR CAPACITY IS LOST. NO SILT SHALL BE PLACED OUTSIDE THE LIMIT OF WORKS.
- 22) ALL DISTURBED AREAS SHALL BE STABILISED BY MEANS OF LANDSCAPING, TURF OR RE-VEGETATION SHALL AS SOON AS POSSIBLE.
- 23) THIS DRAWING OUTLINES THE MINIMUM MEASURES TO BE TAKEN TO CONTROL EROSION AND TO ARREST THE TRANSPORT OF SEDIMENT. ADDITIONAL MEASURES MAY BE REQUIRED TO SUIT STAGING OF WORKS OR AS DIRECTED BY THE SUPERINTENDENT OR COUNCIL ENGINEER.

NOTE:

- * ADJUST SERVICES IN FOOTWAY AS REQUIRED AT NO COST TO COUNCIL.
- * REGRADE AND RESTORE FOOTWAY AREA AS REQUIRED AT COMPLETION OF WORKS TO COUNCIL ISSUED LEVELS AND SATISFACTION.

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE FOLLOWING:-
ARCHITECTURAL PLANS by JINHONG DESIGN.
CONTOUR AND DETAIL SURVEY by SYDNEY SURVEYORS

CAUTION NOTE:

SERVICES WERE NOT INVESTIGATED AS PART OF THIS DESIGN. THE CONTRACTOR SHALL VERIFY LOCATION AND DEPTH PRIOR TO COMMENCEMENT OF ANY WORKS.

TREES HAVE BEEN OMITTED FOR CLARITY, REFER SURVEY FOR EXISTING AND ARCHITECTURAL PLANS FOR TREES TO BE REMOVED AND RETAINED

GLOBAL PROJECT

ABN 23 619 631 202 ENGINEERS (AUST) P/L

UNIT 24/105A VANESSA ST
(P.O. BOX 648)
KINGSGROVE NSW 2208
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Facsimile (02) 9502-4988

No.	Date	Revision		By	MH

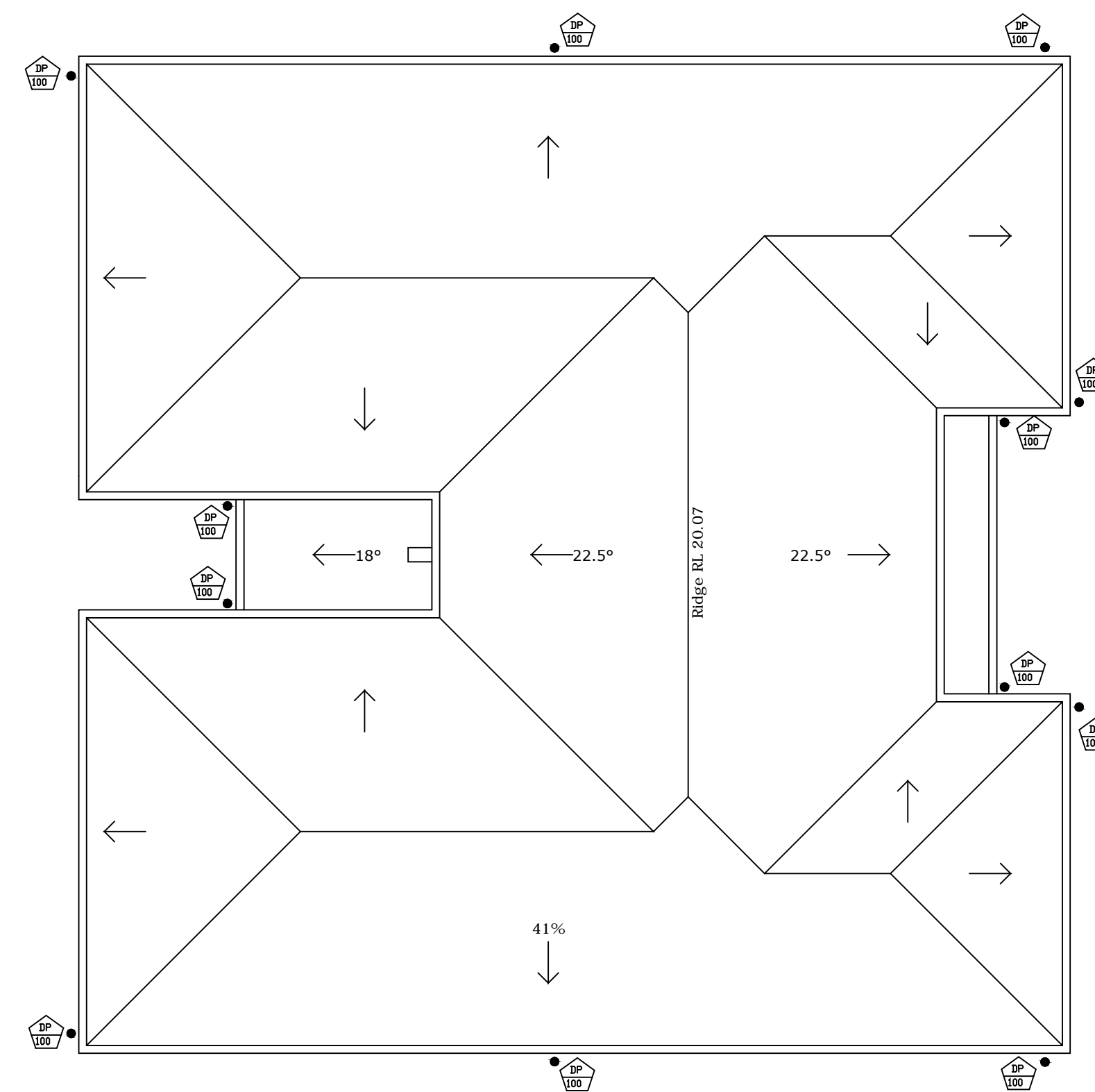
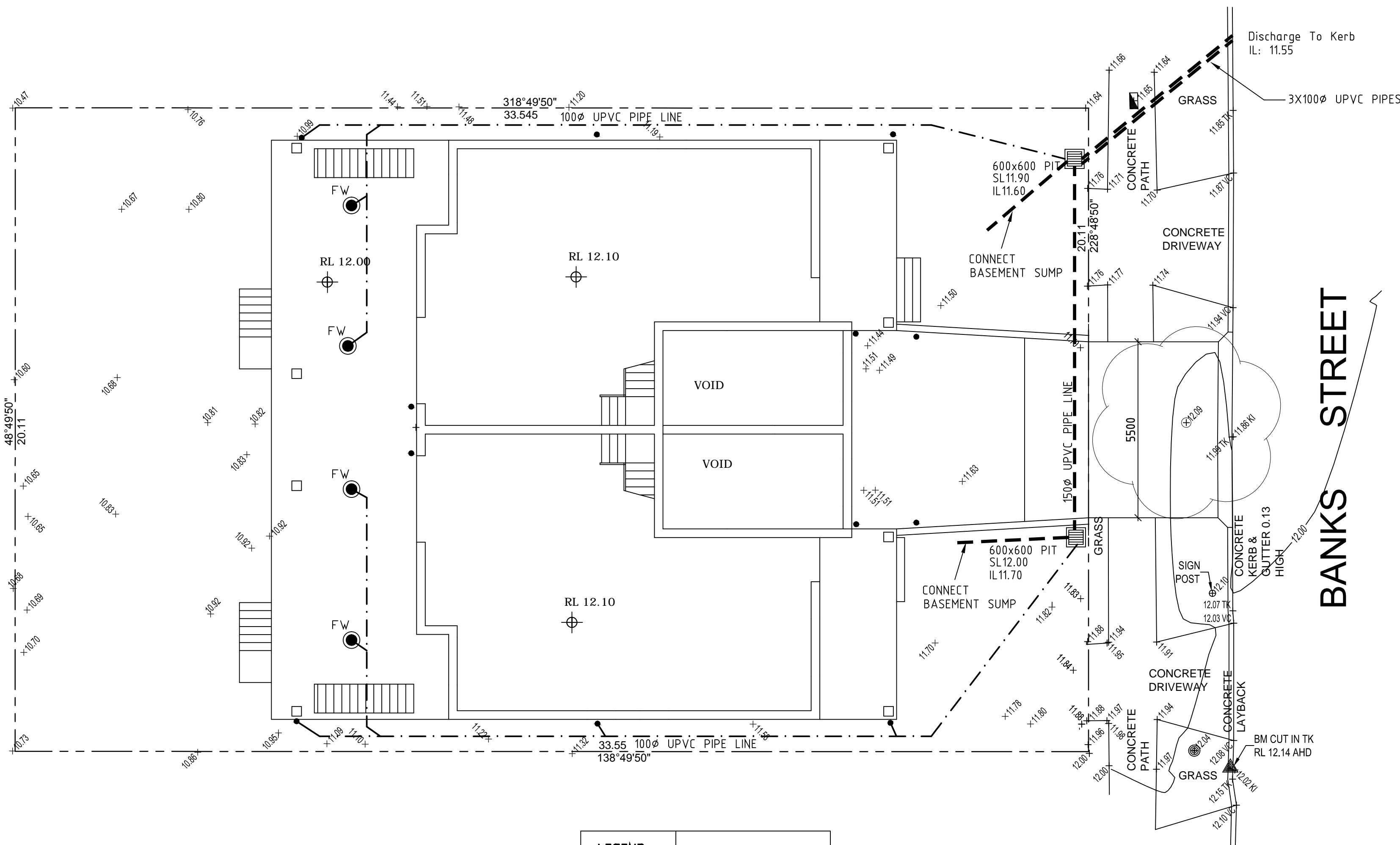
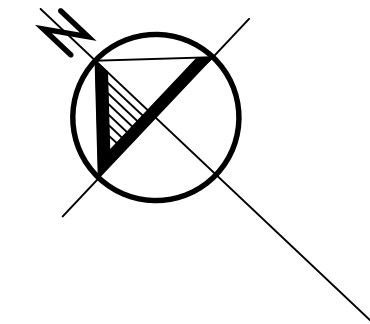
PROJECT
**PROPOSED DUPLEX
AT No 50 BANKS STREET
PADSTOW**

CLIENT
**JINHONG
DESIGN & CONSTRUCTION**

Designed by **M.H.**
Drawn by **C.K.**
Checked by
M.HAWATT
BE(Hons)MEngSc M.L.E.(AUST)

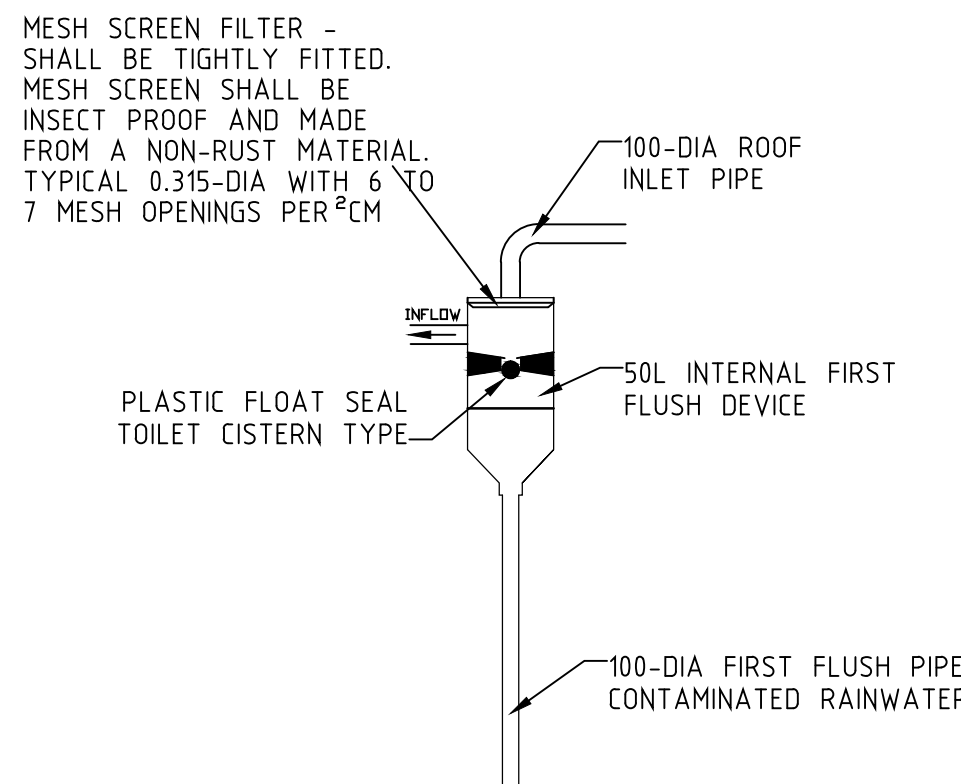
TITLE
**BASEMENT STORMWATER LAYOUT
& DETAILS**

Scale AS SHOWN	Rev.
Drawing No. 6543 SW1	
Date 18.12.2022	No. in se 3

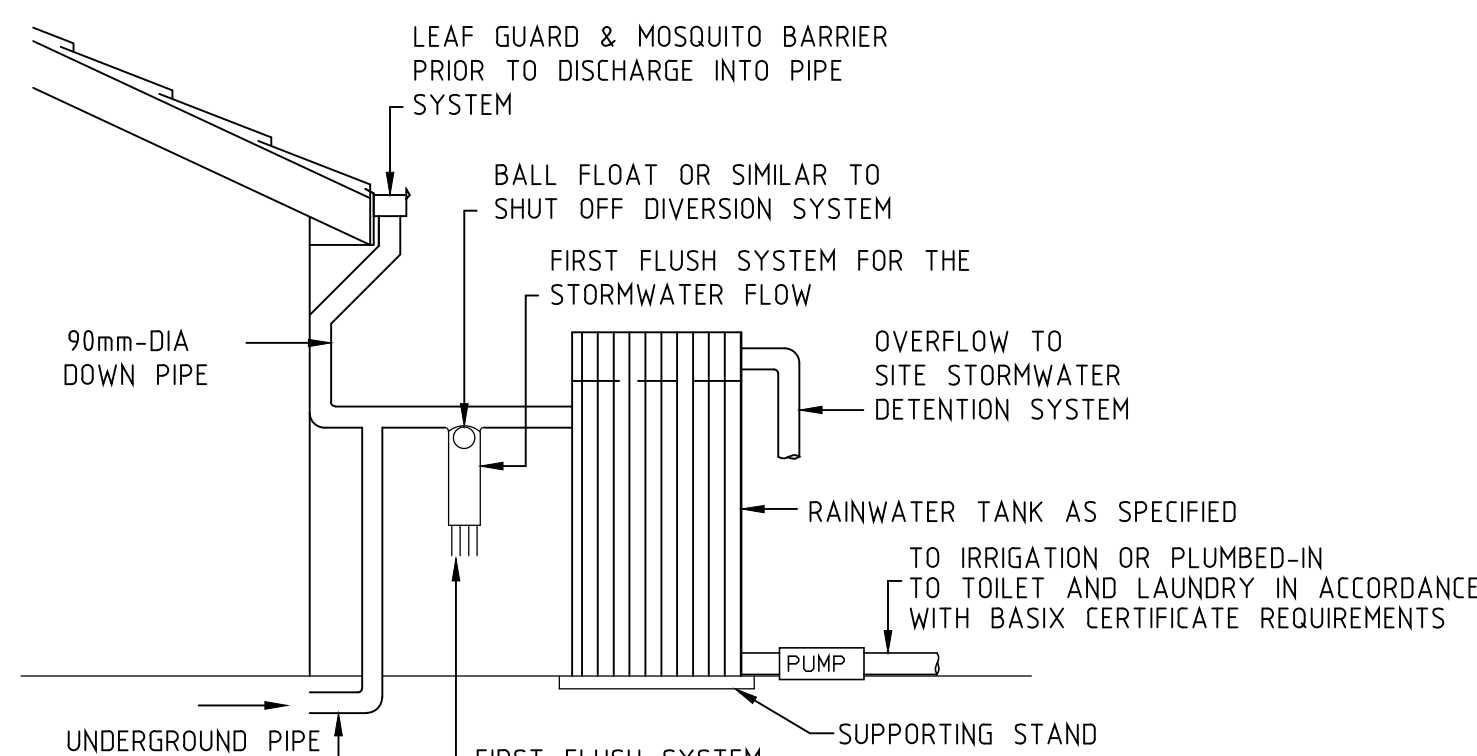


ROOF PLAN
SCALE 1:100

LEGEND	
	DRAINAGE PIT
	PROPOSED DRAINAGE LINES
	EXISTING SPOT LEVELS
	EXISTING CONTOURS
	SILT FENCE
	DIRECTION OF FALL
	DOWN PIPES
	CHARGE LINE

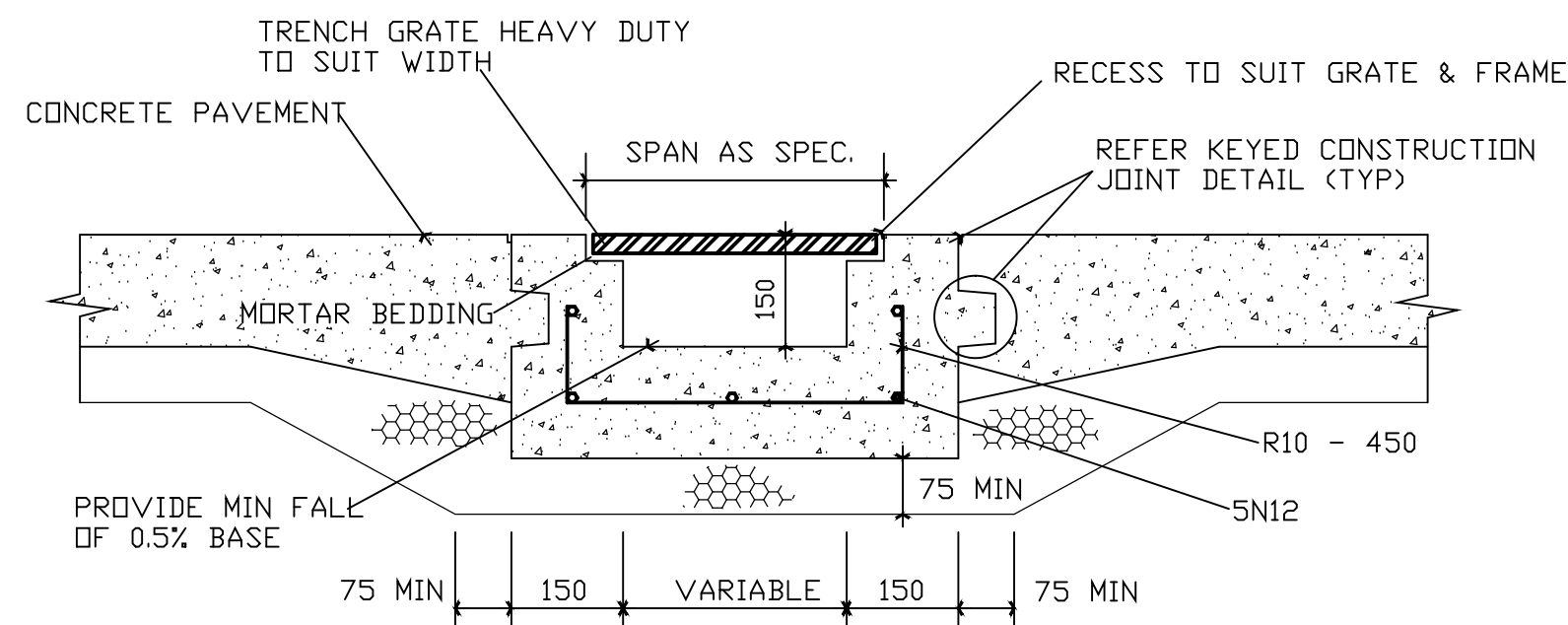


"FIRST FLUSH" DEVICE



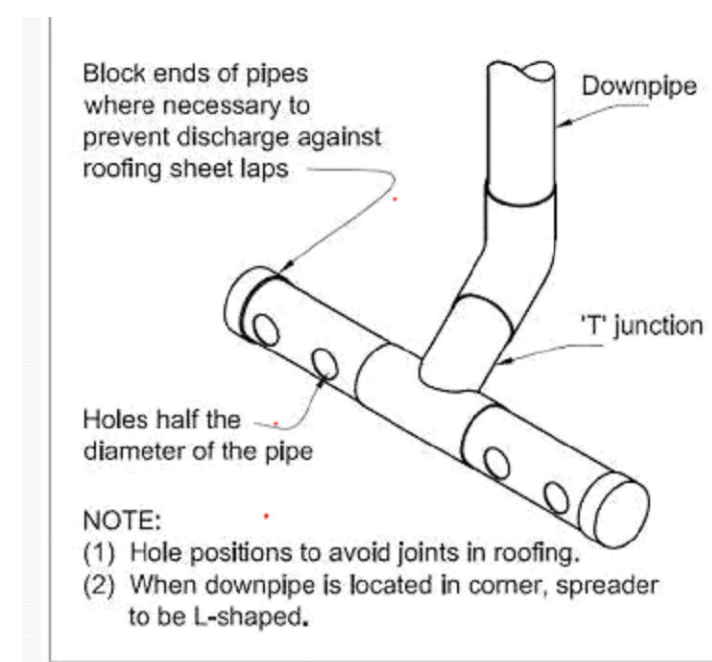
RAINWATER RE-USE TYPICAL SCHEMATIC

N.T.S.



GRATED TRENCH DRAIN DETAIL
CONCRETE/CONCRETE INTERFACE

N.T.S.



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PROJECT
**PROPOSED DUPLEX
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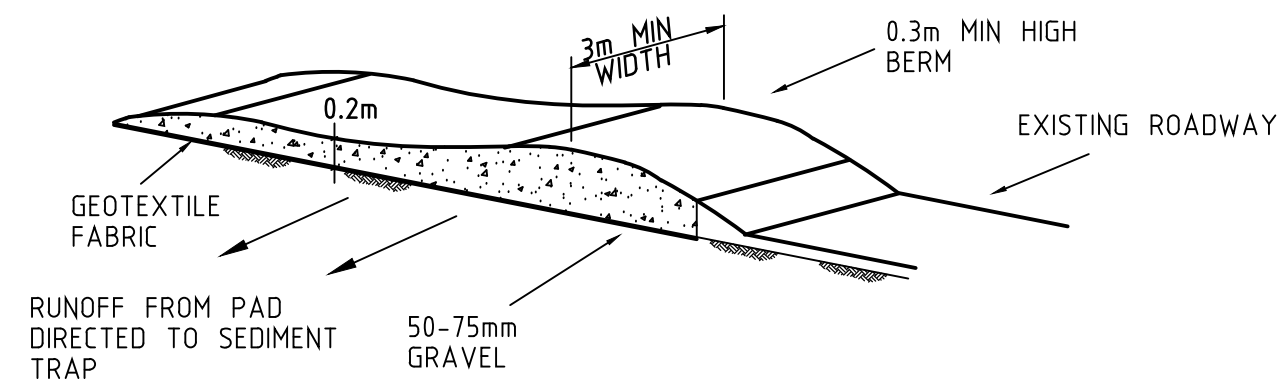
Designed by **M.H.**
Drawn by **C.K.**
Checked by
M.HAWATT
BE(Hons)MEngSc M.I.E.(AUST)

TITLE
**GROUND FLOOR LAYOUT
& DETAILS**

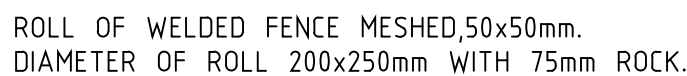
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AS SHOWN
Drawing No. **6543 SW2**
Date **18.12.2022**
Rev.
No. in se **3**



INSTALL APPROVED SEDIMENT
FENCE DOWNSTREAM OF EXISTING
SITE TO ENSURE SEDIMENT CONTAINED



N.T.S.



N.T.S.



- PITS

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No.	Date	Revision	By
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PROPOSED DUPLEX
AT No 50 BANKS STREET
PADSTOW

JINHONG
DESIGN & CONSTRUCTION

Designed by	M.H
Drawn by	C.K
Checked by	
M.HAWATT	
BE(Hons)MEngSc M.I.E.(AUST)	

SOIL & WATER MANAGEMENT PLAN

Scale	
AS SHOWN	
Drawing No.	Rev.
6543 SW3	
Date	No. in set
18.12.2022	3