

STORMWATER DRAINAGE PLAN

11 MERRIS STREET, KINGSGROVE, NSW 2208

LIST OF DRAWINGS

SHEET No.	SHEET NAME	REV	DATE
H01	CONSTRUCTION NOTES	02	10/06/2025
H02	SITE DRAINAGE PLAN	02	10/06/2025
H03	FIRST FLOOR & ROOF DRAINAGE PLAN	02	10/06/2025
H04	RAINWATER TANK & PITS DETAILS	02	10/06/2025
H05	ABSORPTION TRENCH DETAILS	02	10/06/2025

GENERAL

- THE PLUMBER/ DRAINER SHALL INSPECT THE SITE AND CONFIRM THE EXISTING SITE STRUCTURES, SERVICES AND CONDITIONS PRIOR TO PROCEEDING. SHOULD ANY DISCREPANCIES BE FOUND, CONTACT THE ENGINEER FOR DISCUSSION PRIOR TO PROCEEDING THE WORKS.
- LOCATION OF STORMWATER SYSTEMS, INCLUDING DOWNPIPES, PIPES, PITS, ONSITE DETENTION AND RAINWATER TANK ARE INDICATIVE ONLY. EXACT LOCATION SHALL BE DETERMINED ON SITE BY THE PLUMBER/BUILDER TO SUIT SITE CONDITIONS.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANT DRAWINGS. IF ANY DISCREPANCIES FOUND, CONTACT THE ENGINEER FOR DISCUSSION PRIOR TO PROCEEDING THE WORKS.
- ALL MATERIAL AND WORKMANSHIP TO BE CARRIED OUT IN ACCORDANCE WITH AS3500.3:2018 STORMWATER DRAINAGE, BCA AND LOCAL COUNCIL POLICY, CONSENT AND REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE PLUMBER/ DRAINER TO OBTAIN ANY APPROVALS/ PERMITS/ LICENSES ISSUED BY THE AUTHORITIES PRIOR TO PROCEEDING WITH STORMWATER WORKS.
- ALL DIMENSIONS AND LEVELS ARE TO BE VERIFIED AND CONFIRMED ONSITE BY THE PLUMBER/BUILDER PRIOR TO COMMENCEMENT OF THE WORKS.
- THESE DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS NOR TO BE USED FOR SETOUT PURPOSES.
- THESE DRAWINGS DEPIC THE DESIGN OF SURFACE STORMWATER RUNOFF DRAINAGE SYSTEMS ONLY AND DO NOT DEPICT ROOF DRAINAGE OR SUBSOIL DRAINAGE SYSTEM. UNLESS NOTED OTHERWISE, THE DESIGN OF ROOF AND SUBSOIL DRAINAGE SYSTEMS IS THE RESPONSIBILITY OF OTHERS.
- ALL DOWNPIPES TO BE Ø100 SEWER GRADE AND FULLY SEALED U.N.O. ALL STORMWATER PIPES TO BE Ø100 SEWER GRADE AT 1% MIN. FALL U.N.O. ALL MATERIALS USED IN THE WORK SHALL BE NEW AND CONFORM WITH RELEVANT AUSTRALIAN STANDARDS AND BEAR THE REQUIRED STANDARDS MARK.
- INSPECTION AND CERTIFICATION, IF REQUIRED, SHALL BE DONE PRIOR TO BACKFILLING. ALLOW 24 HOUR NOTICE FOR THE ENGINEER TO CARRY OUT INSPECTION.
- ANY DAMAGE TO SERVICES DURING CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY AT THE PLUMBER/ DRAINER'S OWN EXPENSE.

UTILITIES

- THE LOCATION OF UTILITIES SHOWN ON THESE DRAWINGS ARE INDICATIVE ONLY. THE CONTRACTOR SHALL, BEFORE COMMENCING ANY WORKS:
 - DETERMINE THE EXTENT OF EXISTING UTILITY SURVEY AND INFORMATION REFERENCED ON THESE DRAWINGS.
 - OBTAIN CURRENT DIAL BEFORE YOU DIG PLANS AND INFORMATION BY TELEPHONING 1100 OR FAX 1300 682 077 TO ASCERTAIN THE EXACT LOCATION OF UTILITIES.



- MAKE ANY OTHER ENQUIRIES AS THE CONTRACTOR CONSIDERS NECESSARY TO SATISFY ITSELF AS TO THE EXACT LOCATION OF UTILITY SERVICES; AND
 - ENSURE THAT THE ADOPTED WORK METHOD WILL AVOID DAMAGE TO ALL UTILITIES.
- THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN THE VICINITY OF EXISTING UTILITY SERVICES.
 - THIS FIRM WILL NOT BE LIABLE FOR ANY COSTS ARISING FROM DAMAGE TO ANY UTILITY SERVICES CAUSED BY THE CONTRACTOR.

DRAINAGE NOTES

- UNLESS NOTED AS OTHERWISE, ALL DOWNPIPES TO BE Ø100 ROUND (OR 100X75 RECTANGULAR) AND FULLY SEALED; ALL STORMWATER PIPES TO BE Ø100 SEWER GRADE. ALL STORMWATER PIPES TO BE LAID AT 1% MIN. FALL. ALL MATERIALS USED IN THE WORK SHALL BE NEW AND CONFORM WITH RELEVANT AUSTRALIAN STANDARDS AND BEAR THE REQUIRED STANDARDS MARK.
- UNLESS NOTED AS OTHERWISE, THE PIPE COVER, MEASURED FROM THE TOP OF THE PIPE TO THE FINISHED SURFACE, SHALL BE AS PER THE TABLE BELOW:

PIPE LOCATION	MINIMUM COVER
NOT SUBJECT TO VEHICULAR LOADING	100MM FOR SINGLE DWELLING 300MM FOR ALL OTHER DEVELOPMENTS
SUBJECT TO VEHICULAR LOADING	450MM WHERE NOT UNDER ROAD
UNDER SEALED ROAD	600MM
UNDER UNSEALED ROAD	750MM
UNDER FOOTPATHS	400MM
PARKS	400MM
PAVED DRIVEWAY	100MM BELOW UNDER SIDE OF PAVEMENT

- ANY PIPES BENEATH RELEVANT LOCAL AUTHORITY ROAD TO BE RUBBER RING JOINTED RCP, UNLESS NOTED AS OTHERWISE.
- ALL STORMWATER PIT WITHIN THE PROPERTY ARE TO BE FITTED WITH "WELDLCK" OR APPROVED EQUIVALENT GRATE OF:
 - LIGHT DUTY FOR LANDSCAPED AREAS
 - HEAVY DUTY WHERE SUBJECTED TO VEHICULAR TRAFFIC
- UNLESS NOTED AS OTHERWISE, MINIMUM INTERNAL DIMENSIONS FOR STORMWATER AND INLET PITS SHALL BE GIVEN IN TABLE BELOW:

DEPTH TO INVERT OF OUTLET	MINIMUM INTERNAL DIMENSION (mm)	
	WIDTH	LENGTH
UP TO 450mm	450	450
450mm TO 600mm	600	600
600mm TO 900mm	600	900
900mm TO 1500mm (x)	900	900
1500mm TO 2000mm (x)	1200	1200

(x) NOTE : STEP IRONS SHALL BE PROVIDED FOR PITS WITH DEPTHS EXCEEDING 1200 MM

- ALL PITS IN ROADWAY SHALL BE FITTED WITH HEAVY DUTY GRATES WITH LOCKING BOLTS AND CONTINUOUS HINGES.
- SUB-SOIL DRAINS FOR RETAINING WALL AND EMBANKMENTS SHALL BE INSTALLED BY THE BUILDER AND CONNECTED TO STORMWATER LINES. ALL AGG. LINES SHALL BE 100MM DIA., UNLESS NOTED OTHERWISE.

REV	DESCRIPTION	DATE	DRAWN	CHECKED
01	ISSUED FOR CC SUBMISSION	19/02/2025	LT	ET
02	ISSUED FOR S4.55 SUBMISSION	10/06/2025	LT	ET

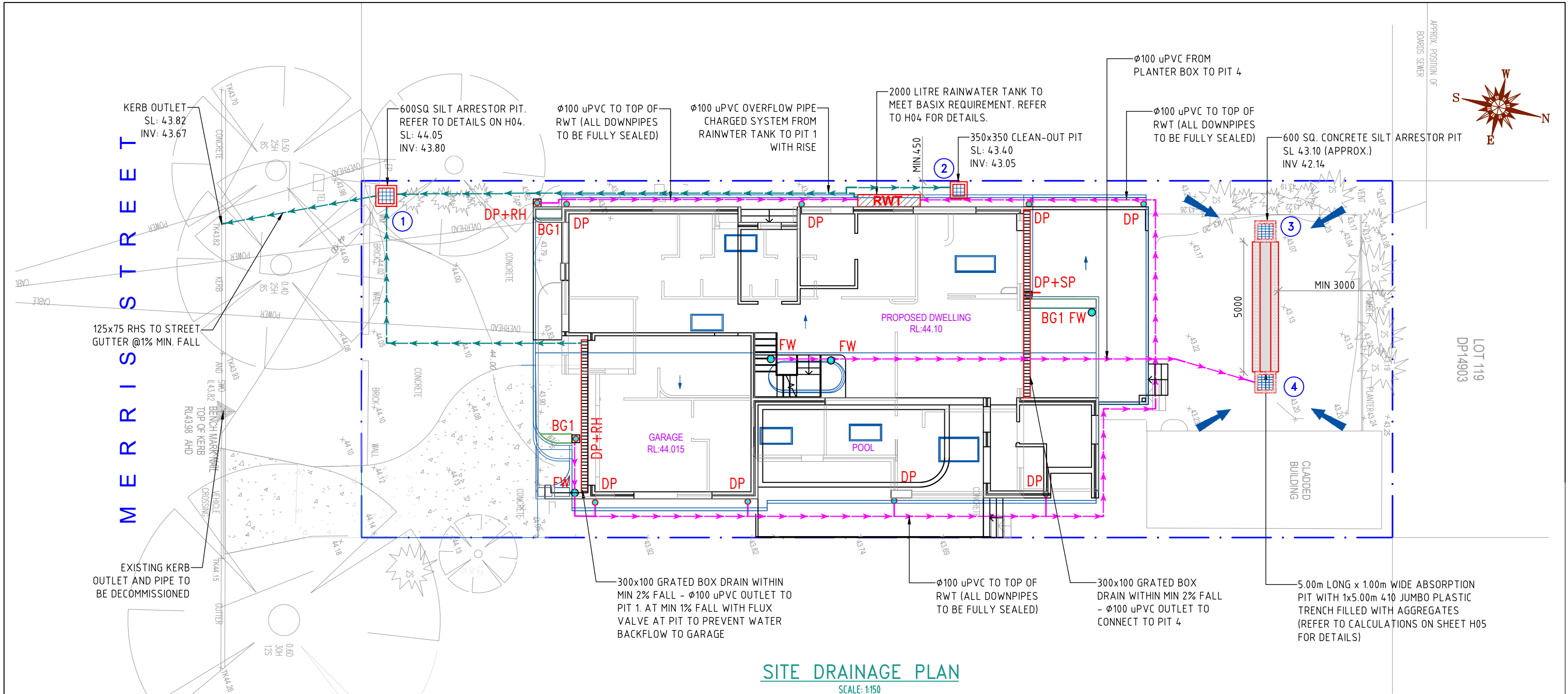
DRAWINGS / DESIGN PREPARED BY

 5S PROJECTS CONSULTING ENGINEERS STRUCTURAL CIVIL HYDRAULIC A.B.N 38 634 702 113 A: PO Box 208, Earlwood NSW 2206 M: (02) 9906 5668 E: info@5sprojects.com.au W: 5sprojects.com.au	DRAWING NUMBER FSP-DWG-243035-H01
	REVISION 02
	TOTAL SHEET 05

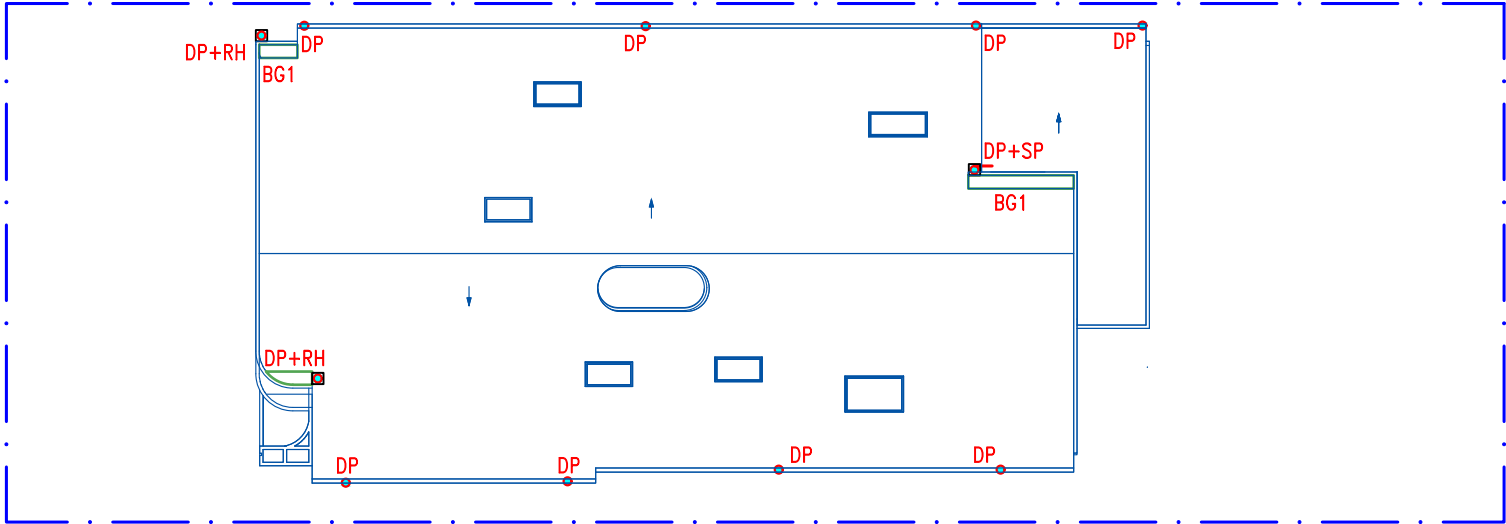
DRAWING TITLE: CONSTRUCTION NOTES	
LGA: CANTERBURY BANKSTOWN COUNCIL	CLIENT: TERRY VU
PROJECT ADDRESS: 11 MERRIS STREET, KINGSGROVE, NSW 2208	

THIS DRAWING MAY BE PREPARED IN COLOUR AND MAY BE INCOMPLETE IF COPIED

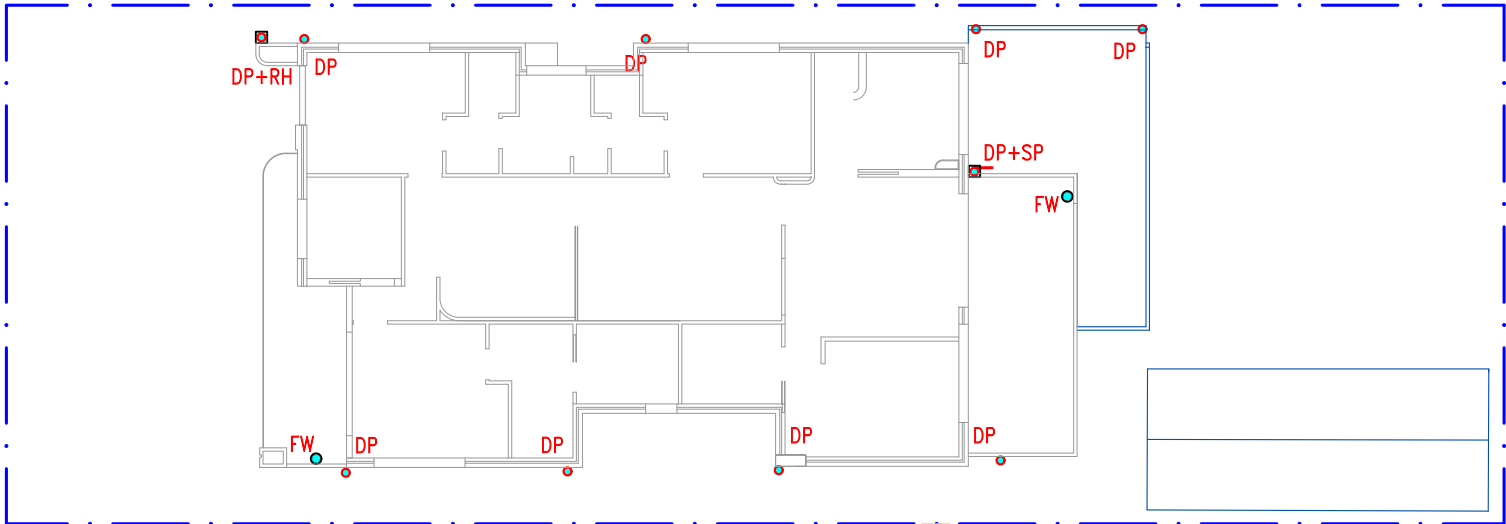
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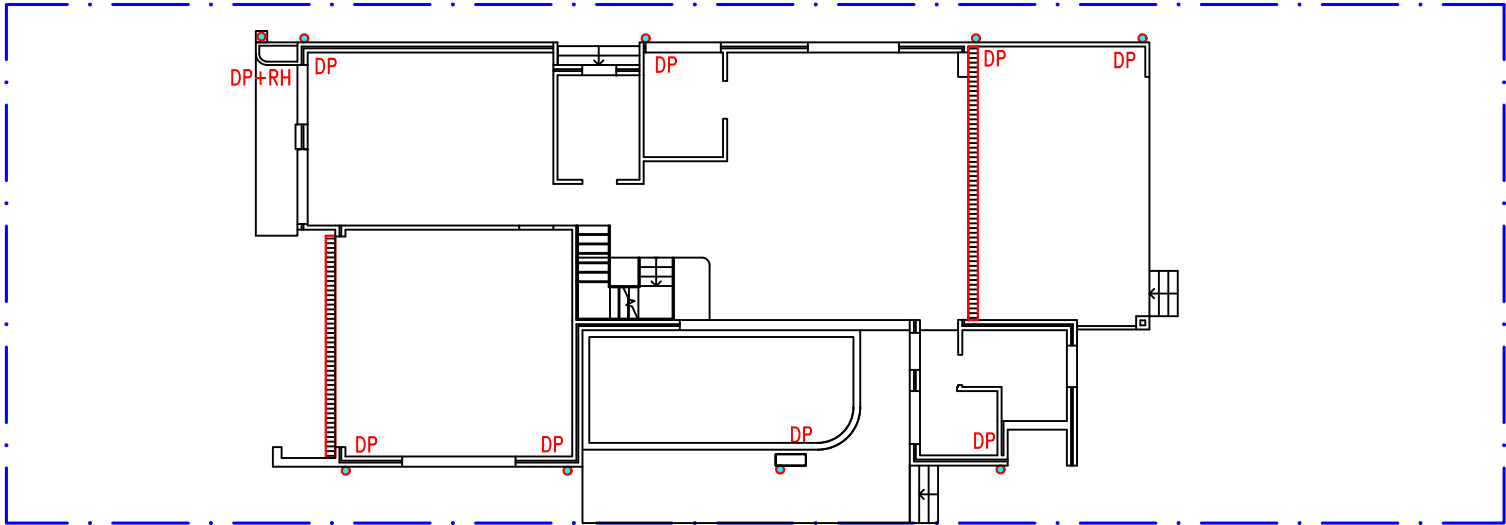
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ROOF DRAINAGE PLAN
SCALE: 1:200




FIRST FLOOR DRAINAGE PLAN
SCALE: 1:200



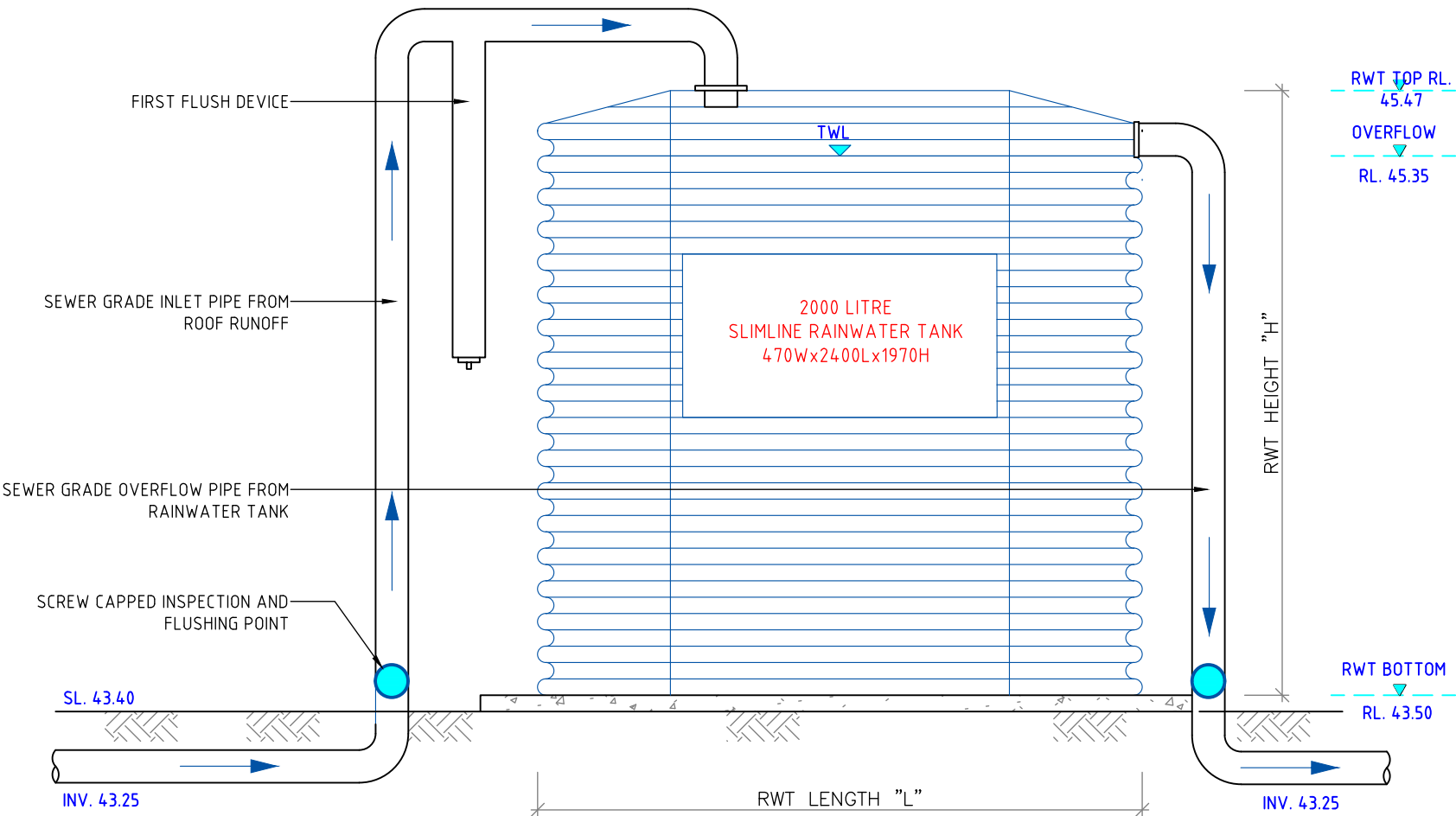
GROUND FLOOR DRAINAGE PLAN
SCALE: 1:200

LEGEND:

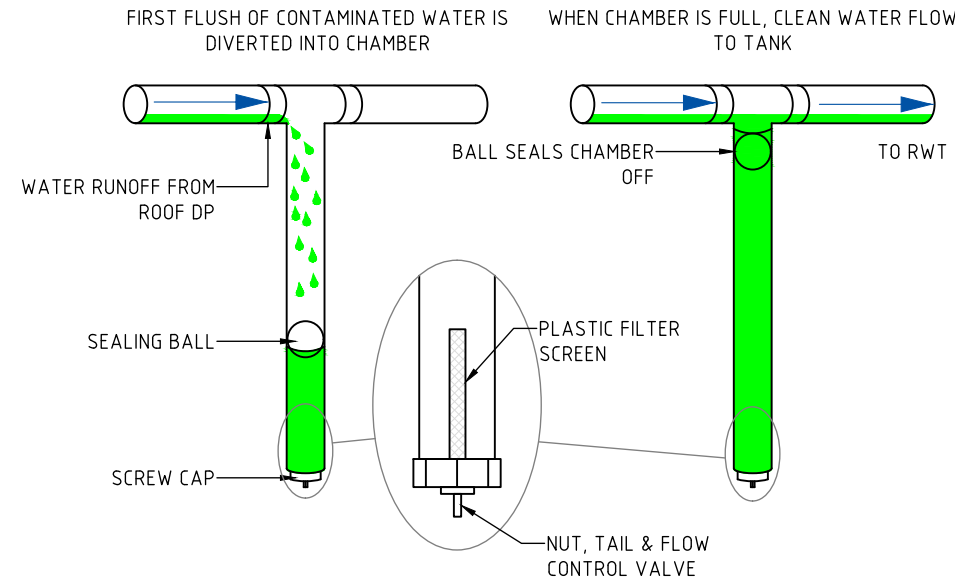
- DP Ø100 DOWNPIPE
- DP+SP Ø100 DOWNPIPE WITH SPREADER + RAINWATER HEAD + OVERFLOW
- DP+RH Ø100 DOWNPIPE + RAINWATER HEAD + OVERFLOW
- FW 100 DIA FLOOR WASTE
- ROOF RUNOFF PIPE
- SURFACE RUNOFF PIPE
- EXISTING STORMWATER PIPE
- 300x100 GRATED BOX DRAIN
- BG1 BOX GUTTER
- SL FINISHED SURFACE LEVEL
- FFL FINISHED FLOOR LEVEL
- INV INVERT LEVEL (PIPE / PIT)

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		FSP-DWG-243035-H03		
		REVISION		
		02		
		TOTAL SHEET		
		05		
DRAWING TITLE: FIRST FLOOR & ROOF DRAINAGE PLAN				
LGA: CANTERBURY BANKSTOWN COUNCIL		CLIENT: TERRY VU		
PROJECT ADDRESS: 11 MERRIS STREET, KINGSGROVE, NSW 2208				

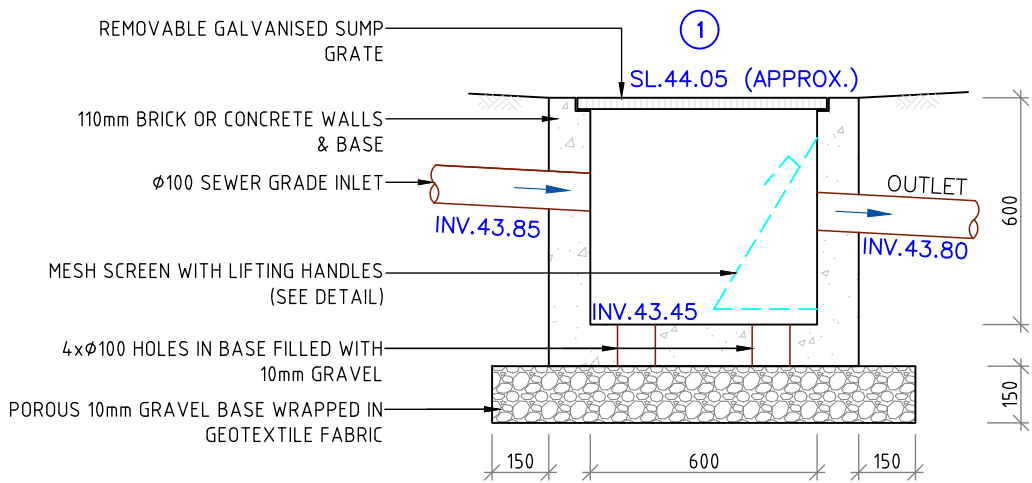
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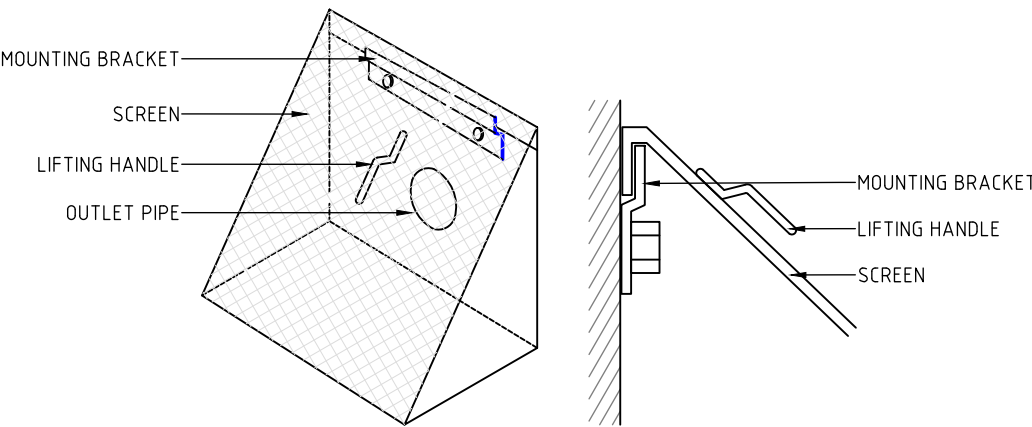
RAINWATER TANK DETAILS
SCALE: NTS



FIRST FLUSH DETAILS
SCALE: NTS




600 SQ. SILT ARRESTOR PIT DETAILS
SCALE: 1:20



MAXI-MESH RH 3030 DETAILS
SCALE: NTS

RAINWATER TANK NOTES:

- RAINWATER TANK IS TO BE TANKSHOP SLIMLINE TANK OR APPROVED EQUIVALENT PRODUCT TO BE USED FOR THIS DEVELOPMENT.
- ALL TANKS ARE TO BE PLACED ON A STRUCTURALLY ADEQUATE BASE, IN ACCORDANCE WITH THE MANUFACTURER'S OR ENGINEERS DETAILS
- DIMENSIONS OF THE RWT ARE INDICATIVE ONLY AND TO BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- FIRST FLUSH FILTERING DEVICE IS POSITIONED IN LINE WITH THE TOP OF THE TANK TO REMOVE FLOATING MATERIALS AND PREVENT FINER FINER PARTICLES FROM ENTERING THE TANK
- CLEAN FIRST FLUSH FILTER DEVICE AS DIRECTED BY THE MANUFACTURER
- EMPTY TANK AND REMOVE SEDIMENTS EVERY 5 YEARS WHEN REUSE IN BOTH INTERNAL AND EXTERNAL
- RAINWATER OUTLET CONNECTIONS AS PER BASIX CERTIFICATE.

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			FSP-DWG-243035-H04	
			REVISION	
			02	
A: PO Box 208, Earlwood NSW 2206 M: (02) 9906 5668 E: info@5sprojects.com.au W: 5sprojects.com.au			TOTAL SHEET	
			05	
DRAWING TITLE: RAINWATER TANK & PITS DETAILS				
LGA: CANTERBURY BANKSTOWN COUNCIL		CLIENT: TERRY VU		
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