

NOTE: BUILDER TO CONFIRM GUTTER INVERT R.L. 28.17 PRIOR TO COMMENCEMENT OF CONSTRUCTION

2/Ø100 P.V.C. OUTLETS TO STREET KERB & GUTTER AT 1% MIN & 150mm APART

NOTE: TURN Ø100 'CHARGED' P.V.C. DOWNPIPES UP WALL SO ARE WATERTIGHT TO R.L. 31.68 MIN. (TYP)

PROVIDE STRAMIT 150 HALF ROUND EAVES GUTTERS OR APPROVED EQUIVALENT 7700mm² (MIN) EAVES GUTTER

RAINWATER STORAGE TANK TO BASIX REQUIREMENTS & WITH Ø100 HIGH LEVEL OVERFLOW OUTLET

PROVIDE LEVEL SPREADER FOR DISCHARGE OF RUNOFF FROM UPPER TO LOWER ROOF AREA (TYP)

NOTE: CHECK & LOCATE DEPTH OF EXISTING MAINS & SERVICES PRIOR TO CONSTRUCTION OF STORMWATER SYSTEM AS VARIATIONS IN POSITION OF MAINS COULD AFFECT DRAINAGE CONSTRUCTION DETAILS

BENCHMARK NAIL IN TOP OF KERB R.L. 28.56 A.M.D.

450 SQ. BOUNDARY PIT GRATE R.L. - 28.60 INVERT R.L. - 28.25 WITH TRASH SCREEN

300 WIDE BY 150 DEEP BOX GUTTER AT 1% FALL TO SUMP WITH PROVISION OF EMERGENCY OVERFLOW

300 SQ. BY 200 DEEP SUMP WITH Ø100 DOWNPIPE OUTLETS FROM BASE AND PROVISION FOR EMERGENCY OVERFLOW

450 SQ. INLET PIT GRATE R.L. - 28.77 INVERT R.L. - 28.47 NOTE: ALL PITS TO HAVE 2.0m LONG SUB-SOIL TAIL INLET (TYP)

PROVIDE LOW POINT IN CHARGED LINE FOR PERIODIC FLUSHING & MAINTENANCE

NEW Ø100 'CHARGED' DOWNPIPE (TYP)

NOTE: PLUMBER TO PERFORM WATER TESTING OF EXISTING PIPED SYSTEM TO DETERMINE CAPACITY AND STATE OF REPAIR. PLUMBER TO INSPECT & REPAIR DAMAGED SECTIONS OF EXISTING PIPE (INCLUDING DOWNPIPES) AS NECESSARY OR PROVIDE NEW DRAINAGE LINES WHERE NECESSARY SUBJECT TO THE APPROVAL BY THE SUPERVISING ENGINEER

SITE DRAINAGE PLAN

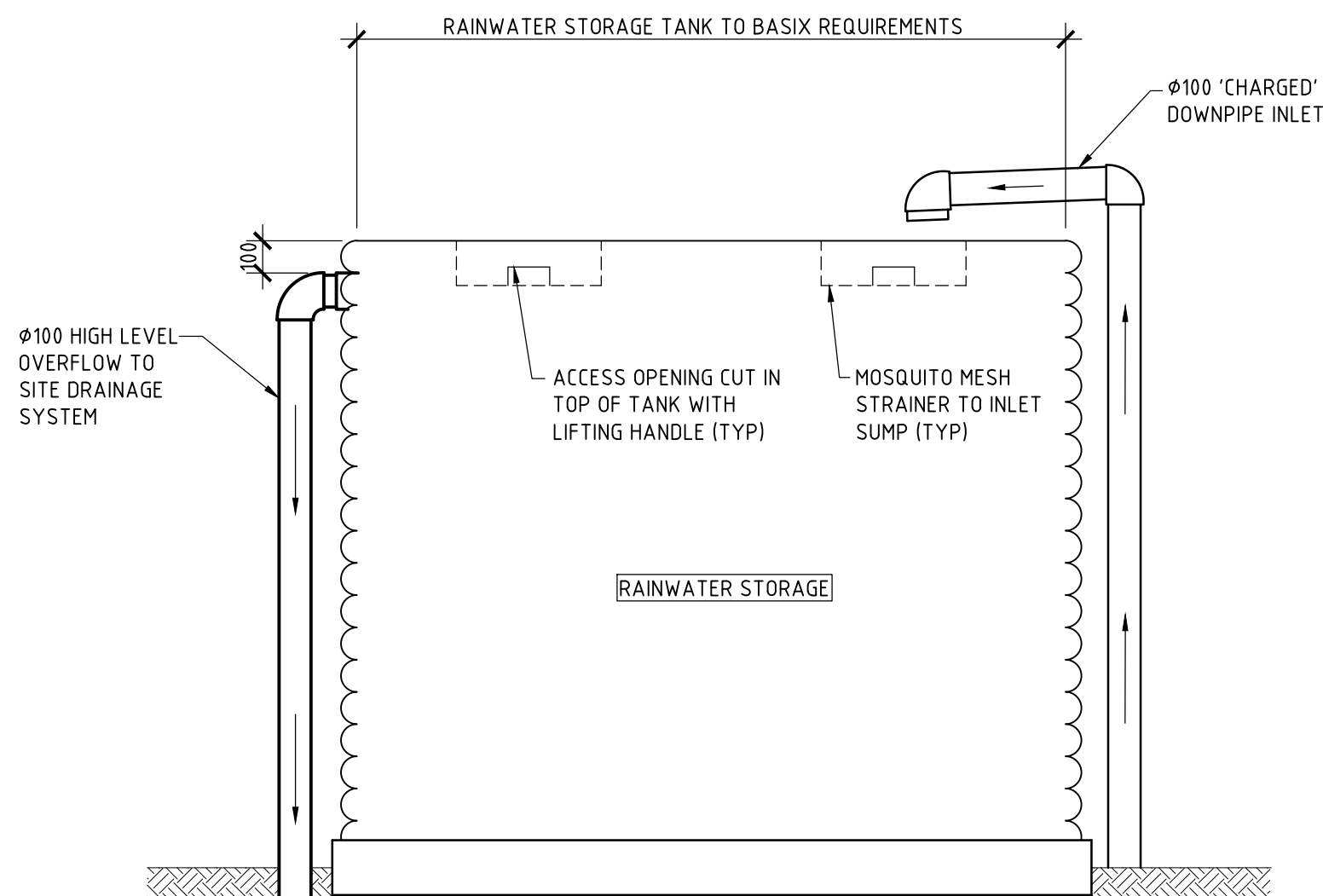
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DRAINAGE NOTES

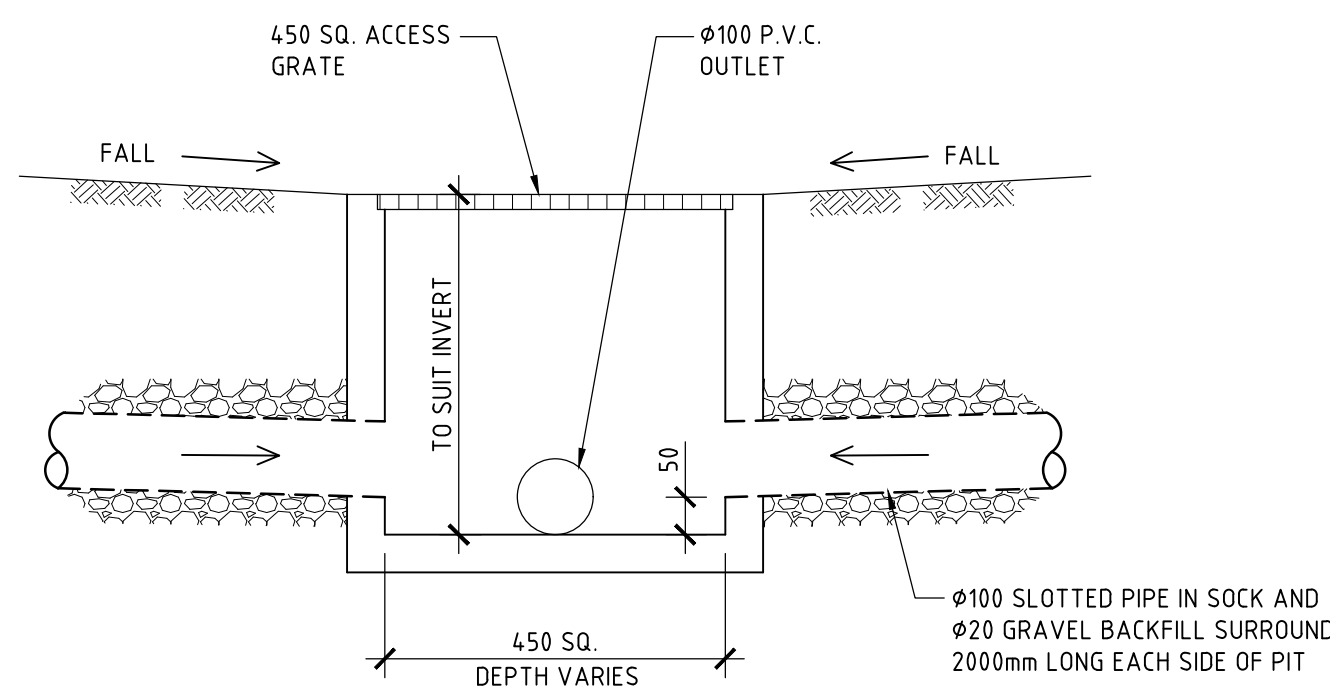
- + DENOTES EXISTING GROUND LEVEL
- FALL STORMWATER PIPES AT 1% MIN UNLESS OTHERWISE NOTED.
- SUB-SOIL DRAINAGE TO BE CONNECTED TO THE SITE DRAINAGE SYSTEM AS NECESSARY.
- SURFACE GRATES 300 SQ. UNLESS OTHERWISE NOTED
- ALL STORMWATER PIPES TO HAVE SOLVENT CEMENT WATERTIGHT JOINTS.
- CHECK & LOCATE DEPTH OF EXISTING MAINS & SERVICES PRIOR TO CONSTRUCTION OF STORMWATER SYSTEM AS VARIATIONS IN POSITION OF MAINS COULD AFFECT DRAINAGE CONSTRUCTION DETAILS.
- INSPECTIONS MUST BE UNDERTAKEN BY THIS OFFICE (BY PRIOR ARRANGEMENT WITH ENGINEER) DURING CONSTRUCTION TO ENABLE FULL CERTIFICATION UPON COMPLETION OF WORKS
- ALL CONSTRUCTION OF COUNCIL DRAINAGE WORKS TO COMPLY WITH COUNCIL STANDARD.
- REMOVE REDUNDANT DRAINAGE PITS AND SEAL PIPES.
- PIT BENCHING TO BE HALF THE OUTGOING PIPE DIAMETER. CONCRETE FOR BENCHING TO BE 20 MPa MASS CONCRETE.
- APPROVED PRE-CAST PITS MAY BE USED.
- ALL PIPES TO BE LAID ON COMPACTED FINE CRUSHED ROCK OR SAND BEDDING 75mm THICK & PIPES BACKFILLED WITH COMPACTED SAND TO 300mm ABOVE TOP OF PIPE, ELSE ATTACHED TO UNDERSIDE OF STRUCTURE AT 600mm c/c AS NECESSARY
- PIPE ROUTES SHOWN ARE INDICATIVE ONLY AND SHOULD BE AS NECESSARY ACCORDING TO SITE CONDITIONS, TREE POSITIONS ETC. CONFIRM SIGNIFICANT CHANGES IN PIPES SYSTEM DETAILS WITH SUPERVISING ENGINEER PRIOR TO COMMENCEMENT OF DRAINAGE CONSTRUCTION WORKS.
- CONTRACTOR SHALL ENSURE THAT SERVICES TO BUILDINGS NOT AFFECTED BY THE WORKS ARE NOT DISRUPTED. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES TO MAINTAIN EXISTING SUPPLY TO BUILDINGS WHERE REQUIRED. ONCE WORKS ARE COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL TEMPORARY SERVICES AND MAKE GOOD ALL DISTURBED AREAS.
- STORMWATER SYSTEM REQUIRES SIGNIFICANT MAINTENANCE DUE TO POTENTIAL HIGH POLLUTANT LOAD. FILTERS AND POLLUTANT TRAPS SHOULD BE CHECKED AFTER LARGE STORM EVENTS AND CLEANED EVERY 6 MONTHS.
- PLUMBING AND DRAINAGE WORKS TO COMPLY WITH AS-3500, THE NATIONAL DRAINAGE & PLUMBING CODE.
- WHERE POSSIBLE, DRAINAGE LINES SHALL BE LAID IN AREAS PREVIOUSLY DISTURBED BY OTHER SITE WORKS AND FOLLOW TOPOGRAPHICAL FEATURES TO REDUCE IMPACT AND AVOID TREE ROOTS.
- THIS STORMWATER MANAGEMENT PLAN HAS BEEN PREPARED FOR SUBMISSION TO COUNCIL/CERTIFIER AND DOES NOT NECESSARILY CONTAIN ALL APPROPRIATE INFORMATION TO ENABLE FOR ISSUE TO PLUMBER/BUILDER FOR CONSTRUCTION. CONTACT TAYLOR CONSULTING FOR MORE INFORMATION.

RAINWATER RE-USE NOTES AND SPECIFICATIONS

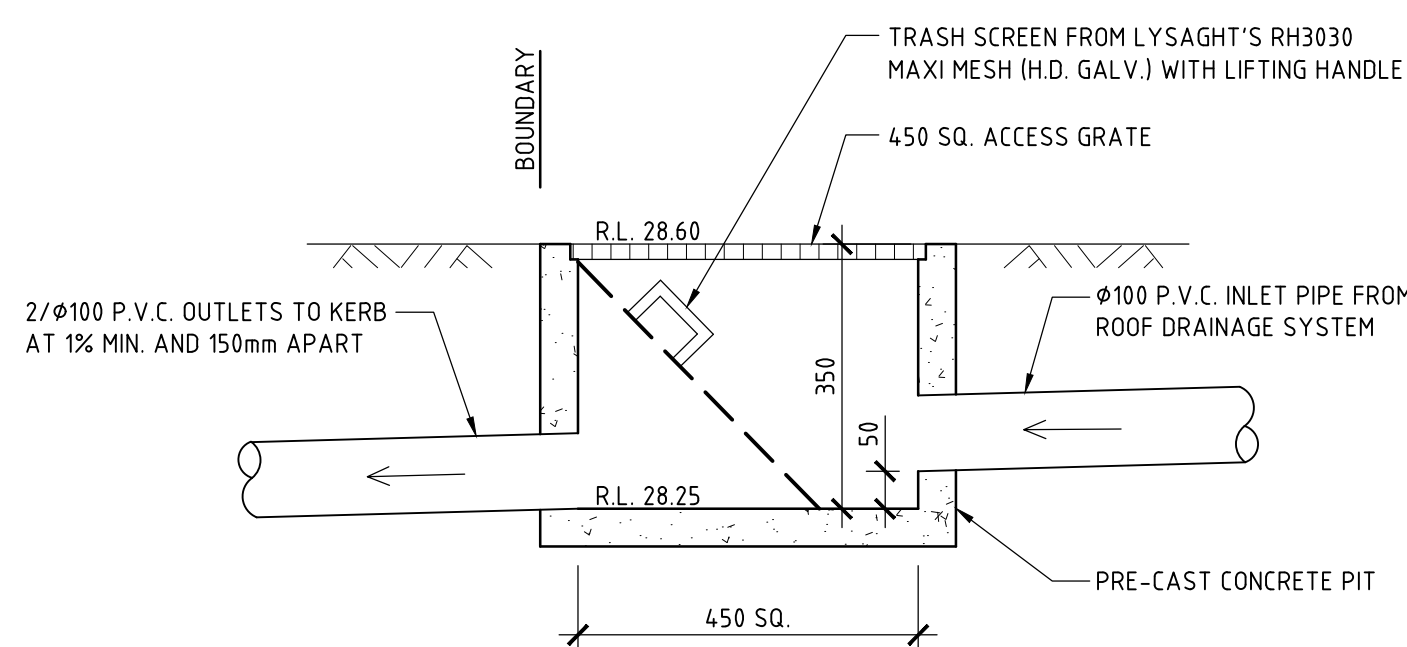
- ROOF WATER ONLY TO BE DRAINED TO THE RAINWATER STORAGE TANK.
- THE RAINWATER STORAGE TANK NEEDS TO BE CONNECTED FOR RE-USE AS REQUIRED BY THE OWNER.
- RAINWATER STORAGE TANK TO BE CONFIGURED IN ACCORDANCE WITH SYDNEY WATER SPECIFICATIONS 'GUIDELINES FOR RAINWATER TANK ON RESIDENTIAL PROPERTIES'.
- PROVIDE MAINS 'TOP-UP' SUPPLY TO RAINWATER TANK. MAINS TOP-UP ZONE TO BE BASED ON THE DAILY NON-POTABLE USAGE THAT MAY BE EXPECTED FROM THE TANK.
- PROVIDE A MECHANICAL PUMPING ARRANGEMENT (IN SOUND-PROOF HOUSING) TO PUMP SUPPLIERS SPECIFICATION TO SUIT INTENDED USAGE OF RAINWATER STORAGE. PUMPING ARRANGEMENTS MUST COMPLY WITH EPA GUIDELINES.
- INLETS TO RAINWATER TANK MUST BE SCREENED TO PREVENT THE ENTRY OF FOREIGN MATTER, ANIMALS OR INSECTS.
- A SIGN MUST BE AFFIXED TO THE RAINWATER TANK CLEARLY STATING THAT THE WATER IN THE TANK IS RAINWATER AND IS NOT TO BE USED FOR HUMAN CONSUMPTION.
- RAINWATER TANK TO BE PLACED ON A STRUCTURALLY ADEQUATE BASE IN ACCORDANCE WITH THE MANUFACTURER'S OR STRUCTURAL ENGINEER'S DETAILS.
- THE TANK MUST NOT BE INSTALLED OVER ANY MAINTENANCE STRUCTURE OR FITTINGS USED BY A PUBLIC AUTHORITY.
- RAINWATER TANK AND ASSOCIATED PLUMBING WORKS TO BE INSTALLED AND CONFIGURED BY A LICENSED PLUMBER. PUMP TO BE INSTALLED BY A LICENSED ELECTRICIAN.



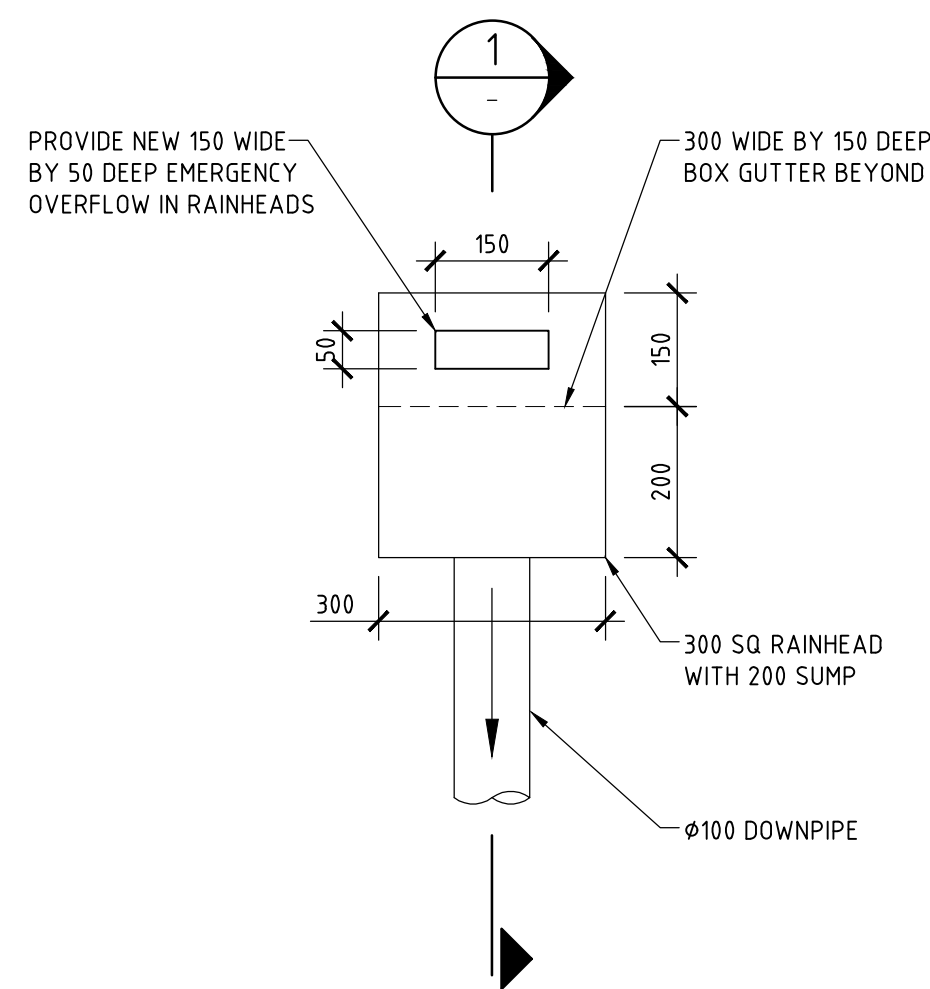
DETAIL A
SCALE 1:20



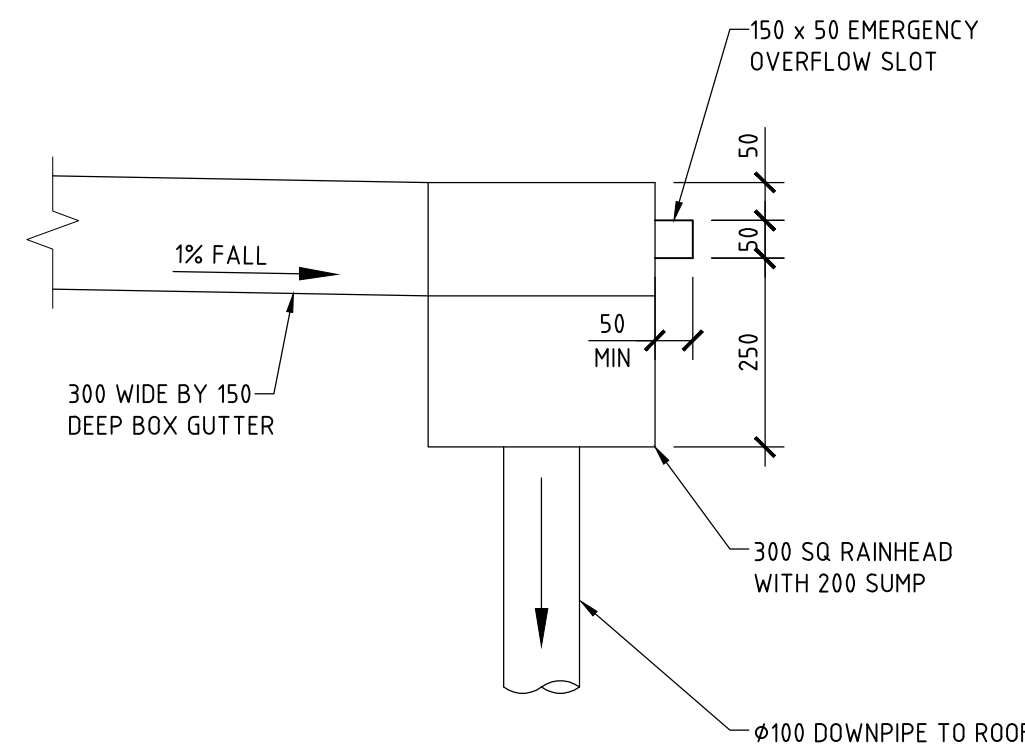
DETAIL B
SCALE 1:10
TYPICAL SURFACE INLET PIT DETAIL



DETAIL C
SCALE 1:10
TYPICAL BOUNDARY PIT DETAIL



DETAIL D
SCALE 1:10
TYPICAL RAINHEAD DETAIL (OR EQUIVALENT) SHOWING PROVISION FOR EMERGENCY OVERFLOW



SECTION 1
SCALE 1:10

STORMWATER SYSTEM DESIGN DATA

SITE DATA

SITE AREA = 404.1 m² (100%)
PROPOSED IMPERVIOUS AREA = 266.5 m² (66%)
PROPOSED LANDSCAPED AREA = 137.6 m² (34%)
EXISTING IMPERVIOUS AREA = 240.9 m² (60%)
EXISTING LANDSCAPED AREA = 163.2 m² (40%)

| ISSUE DATE | REVISION |
|-------------|----------------------------------|
| 14 MAY 2024 | UPDATE TO SUIT BUILDERS COMMENTS |
| 6 DEC 2024 | BOX GUTTER ADDED |
| 14 APR 2025 | POOL CABANA ROOF UPDATED |
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| TITLE STORMWATER MANAGEMENT PLAN 34 JOHNSON STREET, FRESHWATER | | | |
| DRAWN JBP | DATE 2 MAY 2024 | CHECKED | SCALE A1 1:100 1:5 1:20 1:10 |
| ENGINEER R B | BE Civil (Hons) MIE Aust. | | |

TAYLOR
CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING NO
STORM-1/C