

NOTE: TURN Ø100 'CHARGED' P.V.C. DOWNPIPES UP WALL SO ARE WATERTIGHT TO 1.0m ABOVE TOP OF BOUNDARY PIT GRATE

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

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1. + DEMOTE'S EXISTING GROUND LEVEL.
 2. FALL STORMWATER PIPES AT 1% MIN UNLESS OTHERWISE NOTED.
 3. SUB-SOIL DRAINAGE TO BE CONNECTED TO THE SITE DRAINAGE SYSTEM AS NECESSARY.
 4. SURFACE GRATES 300 SQ. UNLESS OTHERWISE NOTED.
 5. ALL STORMWATER PIPES TO HAVE SOLVENT CEMENT WATERTIGHT JOINTS.
 6. CHECK & LOCATE DEPTH OF EXISTING MANH & SERVICES PRIOR TO CONSTRUCTION OF STORMWATER SYSTEM AS VARIATIONS IN POSITION OF MANH COULD AFFECT DRAINAGE CONSTRUCTION DETAILS.
 7. INSPECTIONS MUST BE UNDERTAKEN BY THIS OFFICE (BY PRIOR ARRANGEMENT WITH ENGINEER) DURING CONSTRUCTION TO ENABLE FULL CERTIFICATION UPON COMPLETION OF WORKS.
 8. ALL CONSTRUCTION OF DRAINAGE WORKS TO COMPLY WITH COUNCIL STANDARD.
 9. REMOVE REDUNDANT DRAINAGE PITS AND SEAL PIPES.
 10. PIT BENCHING TO BE HALF THE OUTGOING PIPE DIAMETER. CONCRETE FOR BENCHING TO BE 20 MPa MASS CONCRETE.
 11. APPROVED PRE-CAST PITS MAY BE USED.
 12. 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.
 13. 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.
 14. 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.
 15. STORMWATER SYSTEM REQUIRES SIGNIFICANT MAINTENANCE DUE TO POTENTIAL HIGH POLLUTANT LOADS AND POLLUTANT TRAPS SHOULD BE CHECKED AFTER LARGE STORM EVENTS AND CLEANED EVERY 6 MONTHS.
 16. PLUMBING AND DRAINAGE WORKS TO COMPLY WITH AS-3500, THE NATIONAL DRAINAGE & PLUMBING CODE.
 17. 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.
 18. THIS STORMWATER MANAGEMENT PLAN HAS BEEN PREPARED FOR SUBMISSION TO COUNCIL/CERTIFIER AND DOES NOT NECESSARILY CONTAIN ALL APPROPRIATE INFORMATION FOR CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE PLUMBER/BUILDER FOR CONSTRUCTION, CONSULTATION, CONSULTING FOR MORE INFORMATION.

ABSORPTION TRENCH DESIGN DATA

SITE AREA = 566.9 m²
IMPERVIOUS CATCHMENT PER TRENCH = 28 m²
ABSORPTION RATE = 0.1 l/sec/m² (ASSUMED)
DESIGN RECURRENCE INTERVAL = 100 years

450 SQ. RAISED BOUNDARY
GRATE R.L. - 160.90
INVERT R.L. - 160.60

**NOTE: BUILDER TO GUTTER
INVERT R.L. 160.52 PRIOR TO
COMMENCEMENT OF CONSTRUCTION**

BENCHMARK NAIL TOP
KERB R.L. 160.65 (A.H.D.)

EXISTING GRATED DRAIN. REDIRECT
TO NEW SITE DRAINAGE SYSTEM
AS NECESSARY

450 SQ. FLUSH PIT WITH 200 SUMP AND
RH3030 MAXI MESH TRASH SCREEN AND
Ø100 BRANCH P.V.C. CONNECTION WITH
SCREW CAP END TO PROPOSED CHARGED
DRAINAGE LINE TO ALLOW FOR FLUSHING
& MAINTENANCE (TYP)

SITE DRAINAGE PLAN

SCALE 1:100

C O S T E R S T R E E T

DETAIL

SCALE 1:20

Diagram illustrating a 'CHARGED' SITE DRAINAGE SYSTEM (TYP) with a 450 SQ WITH 200 DEEP SUMP. The system includes a SCREW CAP TO THREADED END AT PIPE IN PIT (TYP), Ø100 P.V.C. SURFACE, Ø100 P.V.C. (two locations), Ø100 CONNECTED TO 'CHARGED' SITE DRAINAGE SYSTEM (TYP), 3/Ø20 WEEPHOLES TO RUBBLE BED (TYP), and a 450 SQ WITH 200 DEEP SUMP. Dimensions 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0 are shown.

Ø100 P.V.C. INLET FROM SURFACE DRAINAGE

PROVIDE END CAP

NON-WOVE FILTER FAB

2500 LONG

BASE OF ABSORPTION TRENCH TO BE LEVEL

Diagram illustrating the cross-section of a road construction. The layers shown are:

- GEOTEXTILE SURROUND
- CONSOLIDATED TOPSOIL / SAND (50/50) 150mm THICK
- 1000 WIDE
- 100 THICK CRUSHED AGGREGATE BASE

450 SQ. ACCESS
GRATE (TYP)

450 x 600 TRASH SCREEN FROM
LYSAGHT'S RH3030 MAXIMESH
(H.D. GALV.) WITH LIFTING HANDLE (TYP)

EP SUMP

20mm GRAVEL BACKFILL

NON-WOVEN GEOTEXTILE FABRIC

CONSOLIDATED TOPSAND (50/50) 150mm

1000 WIDE

100

4:10

150

20 mm GRAVEL BACKFILL WRAPPED IN GEOTEXTILE FABRIC

410 HIGH JUMBO EVERGLAS PLASTIC ABSORPTION TRENCH

SECTION

SCALE 1:20

TRANSVERSE SECTION THROUGH ABSORPTION TRENCH SYSTEM

DETAIL

SCALE 1:20

TYPICAL ABSORPTION TRENCH & PIT DETAIL

SECTION

SCALE 1:20

TRANSVERSE SECTION THROUGH ABSORPTION TRENCH SYSTEM

STORMWATER SYSTEM DESIGN DATA

SITE DATA

SITE AREA = 566.9 m² (100%)
 PROPOSED IMPERVIOUS AREA = 248.1 m² (44%)
 PROPOSED LANDSCAPED AREA = 318.8 m² (56%)
 EXISTING IMPERVIOUS AREA = 233.2 m² (42%)
 EXISTING LANDSCAPED AREA = 333.7 m² (58%)


[illegible]

TITLE
STORMWATER MANAGEMENT PLAN
16 COSTER STREET, FRENCHS FOREST

DRAWN	RR
ENGINEER	RB

DATE
3 APRIL 2025

CHECKED



DE Ciriaco

BE Civil (Hons) MIE Aust

SCALE @ A1
1:100
1:20

TAYLOR
CONSULTING
CIVIL & STRUCTURAL ENGINEERS

STORM-1/B