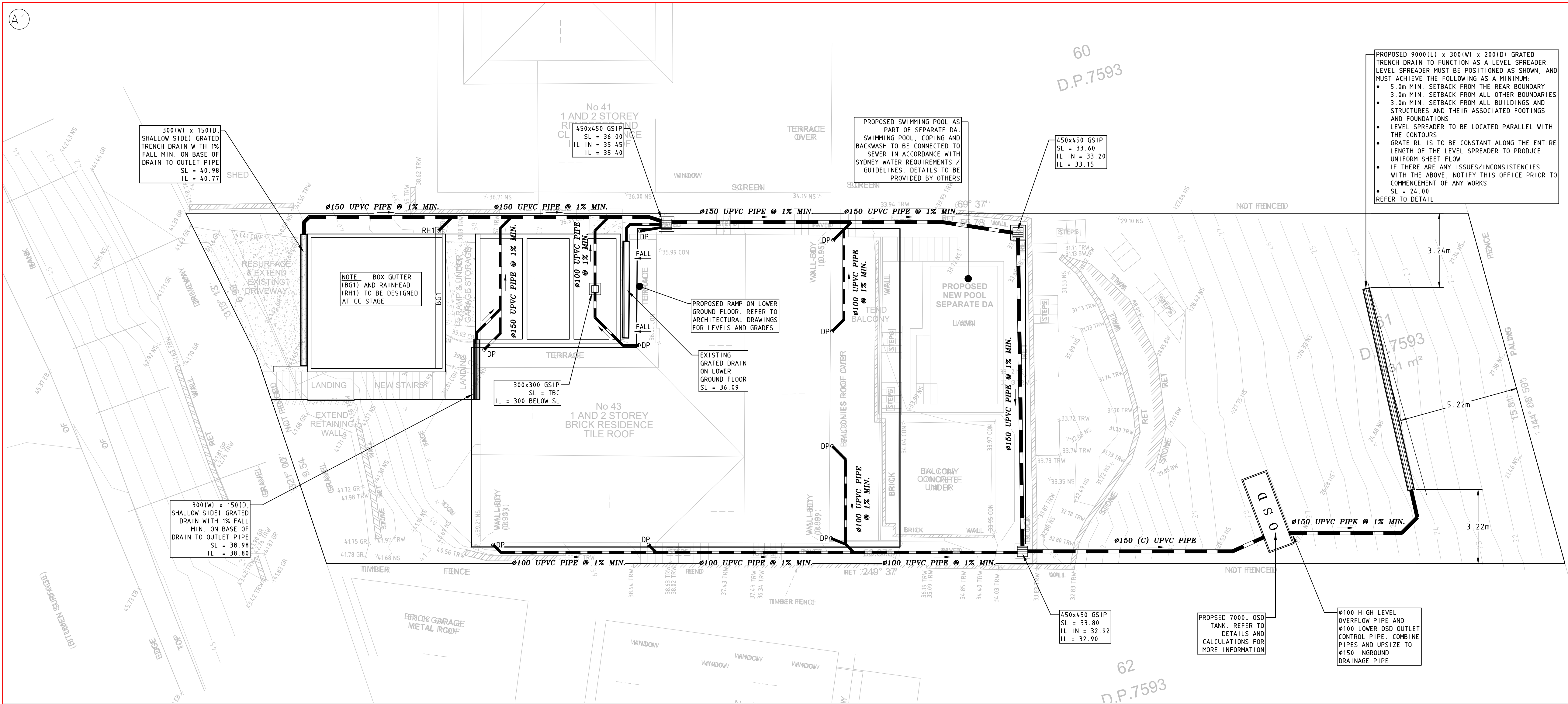




STORMWATER DRAINAGE NOTES:

ALL STORMWATER DRAINAGE WORKS MUST BE CARRIED OUT BY A LICENCED PLUMBER & BE IN ACCORDANCE WITH AS/NZS 3500.3:2021 "STORMWATER DRAINAGE" & AS/NZS 3500.3.2:1998 "STORMWATER DRAINAGE-ACCEPTABLE SOLUTIONS".

ANY VARIATIONS TO THE NOMINATED LEVELS SHALL BE REFERRED TO ENGINEER IMMEDIATELY.

ANY VARIATIONS TO SPECIFIED PRODUCTS OR DETAILS SHALL BE REFERRED TO THE ENGINEER FOR APPROVAL.

BOX COLORBOND OR ZINCALUME STEEL GUTTERS SHALL BE A MINIMUM OF 450 WIDE X 150 DEEP WITH 1:200 FALL ON BASE OF GUTTER UNO.

EAVES GUTTERS SHALL BE COLORBOND OR ZINCALUME STEEL AND HAVE A MINIMUM EFFECTIVE CROSS-SECTIONAL AREA (A_e) OF 8,200mm² UNO. MINIMUM EFFECTIVE EAVES GUTTER SLOPE = 1:500.

ALL DRAINAGE PIPES SHALL BE Ø100 SEWER GRADE UPVC PIPES UNO.

ALL DRAINAGE PIPES SHALL BE LAID @ 1% FALL MIN. UNO.

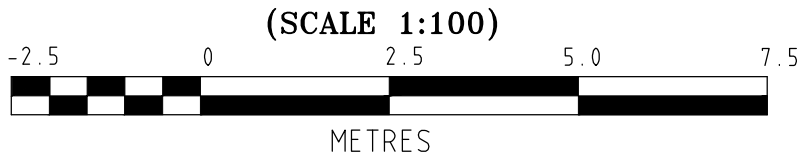
FIRST FLUSH RAINWATER DEVICES TO BE FITTED TO DRAINAGE LINES TO BUILDER'S DETAIL.

SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS & EMBANKMENTS TO STRUCTURAL ENGINEERS REQUIREMENTS. SUBSOIL DRAINAGE LINES MUST BE KEPT SEPARATE FROM ALL OTHER DRAINAGE SYSTEMS (SUCH AS ROOF OR SURFACE DRAINAGE SYSTEMS), AND MUST DISCHARGE INDEPENDENTLY AT THE POINT OF DISCHARGE. REFER TO TYPICAL SUBSOIL DRAINAGE LAYOUT DETAIL. CONTACT THIS OFFICE IF THERE ARE ANY ISSUES, OR IF FURTHER ADVICE IS REQUIRED

SYMBOLS & ABBREVIATIONS:

- DP = Ø100 SEWER GRADE UPVC DOWNPIPE, UNO.
- RWO = Ø260 TRU-FLO RAINWATER OUTLET WITH Ø100 DOWNPIPE, TYPICAL
- FO = 200 SQUARE SPS PUSH IN FLOOR DRAIN WITH DOWNPIPE, TYPICAL
- OF = 200(W) x 75(D) OVERFLOW DUCT
- PBD = PLANTER BOX DRAINAGE TO MANUFACTURERS OR BUILDERS DETAILS AND SPECIFICATIONS
- GSIP = GRATED SURFACE INLET PIT (NO LINTEL)
- GTD = GRATED TRENCH DRAIN
- ØXXX (C) = ØXXX CHARGED PIPE (E.G. Ø150 (C) = Ø150 CHARGED PIPE)
- IP = Ø100 INSPECTION POINT
- SP = RAINWATER DOWNPIPE SPREADER
- EX DP = EXISTING DOWNPIPE
- RHX = RAINHEAD 'X'
- BOX = BOX GUTTER 'X'
- SX = BOX GUTTER SUMP 'X' OUTLET
- TOW = TOW OF WALL RL
- GSIP = GRATED SURFACE INLET PIT
- NGL = NATURAL GROUND LEVEL
- SL = SURFACE LEVEL (ALSO DRAIN GRATE / LID LEVEL)
- IL = INVERT LEVEL
- U/S IL = UPSTREAM INVERT LEVEL
- D/S IL = DOWNSTREAM INVERT LEVEL
- XXXX = PROPOSED FINISHED SURFACE LEVEL
- R16.5m² = CATCHMENT AREA (WHERE R=ROOF, P=PAVED, L=LANDSCAPED, C=COMBINED SURFACE)
- FALL = PROPOSED SURFACE FALL DIRECTION
- XXX = HYDRAULIC GRADE LINE (HGL) POINT MARKER

GENERAL DRAINAGE LAYOUT PLAN



GENERAL NOTES:

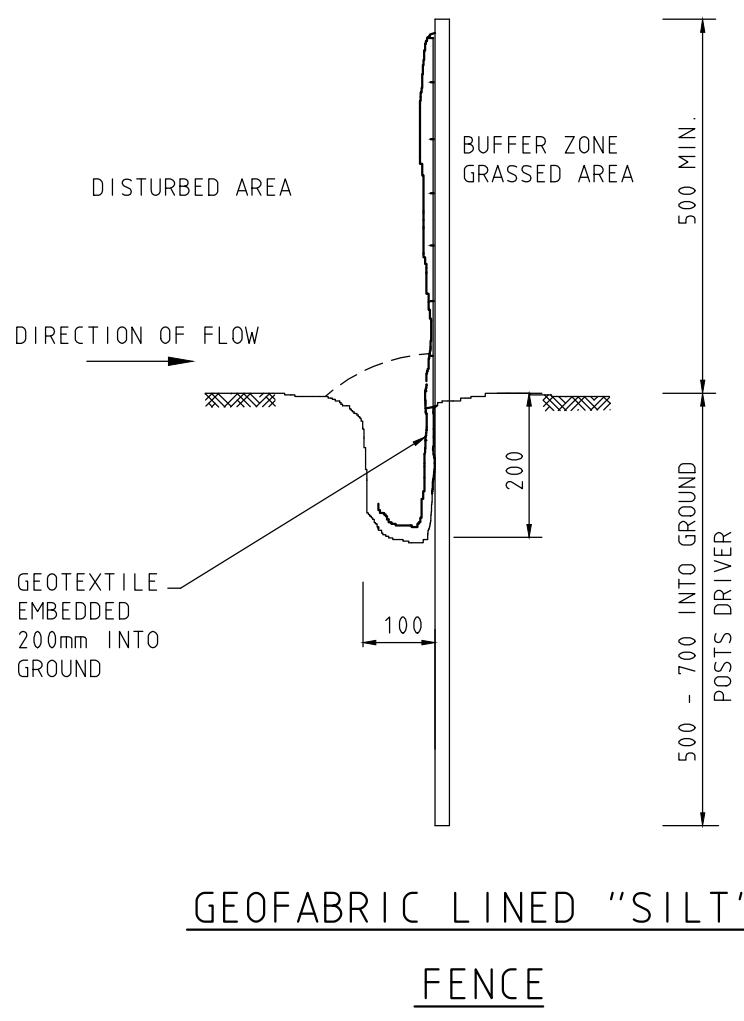
- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL'S SUB DIVISION, STORMWATER, DETENTION & SEDIMENT CODE
- THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST IF NECESSARY.
- THE CONTRACTOR SHALL NOT ENTER UPON NOR DO ANY WORK WITHIN ADJOINING LANDS WITHOUT THE PERMISSION OF THE SUPERINTENDENT.
- ALL NEW WORKS SHALL MAKE SMOOTH CONNECTION TO EXISTING CONDITIONS.
- ALL IMPORTED FILL SHALL BE APPROVED BY THE COUNCIL. THE FILL SHALL BE PLACED IN NOT MORE THAN 300mm LAYERS AND SHALL BE COMPACTED TO AT LEAST 98% STANDARD COMPACTION TO COUNCIL'S SPECIFICATION.
- PROVIDE VEHICULAR CROSSING TO COUNCIL'S SPECIFICATION IN KERB WHERE SHOWN (IF APPLICABLE).
- THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO ADJOINING PROPERTIES.
- ALL IMPORTED FILL TO BE USED TO SUPPORT GROUND SLABS SHALL BE COMPACTED TO A MINIMUM LEVEL OF COMPACTION OF 98% OF MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN +/- 2% OF OPTIMUM (AS1289.5.1.1)
- STEP IRONS AT 300mm CENTRES & TO COUNCIL'S SPECIFICATIONS SHALL BE PROVIDED WHERE PITS ARE DEEPER THAN 1000mm
- ALL DOWNPIPES ARE SHOWN DIAGRAMATICALLY POSITION OF DOWNPIPES SHALL BE CONFIRMED ON SITE
- EXISTING LEVELS AND SERVICE DEPTH AND LOCATION TO BE CHECKED PRIOR TO CONSTRUCTION.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER CONSULTANTS DOCUMENTATION WHICH INCLUDE BUT IS NOT LIMITED TO ARCHITECTURAL AND SURVEY DRAWINGS

SEDIMENT & EROSION CONTROL

- THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES TO THE COUNCIL'S SPECIFICATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND DURING CONSTRUCTION.
- ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED IN A SATISFACTORY WORKING ORDER DURING THE CONSTRUCTION PERIOD. INSPECTIONS OF THESE DEVICES SHALL BE CARRIED OUT AFTER EACH STORM. REPAIRS AND/OR DE-CLOGGING SHALL BE CARRIED OUT TO ENSURE PROPER OPERATION OF THE DEVICE.
- PROVIDE TEMPORARY CONSTRUCTION EXIT TO SHAKE OFF SITE MATERIALS FROM EXITING VEHICLES AND SHALL CONSIST OF A PAD OF COURSE CRUSHED ROCK, (75mm TO 150mm RANGE) HAVING A MINIMUM DEPTH OF 200mm, A MINIMUM LENGTH OF 25m AND 3.5m WIDE OR "CATTLE GRID" SYSTEM.
- THE GULLY PITS SHALL BE PROTECTED IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS
- THE GRATED SURFACE PITS SHALL BE PROTECTED IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS

NOTE:

FOR TREES TO BE REMOVED, RETAINED OR NEWLY PLANTED, REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS



EXTREME CARE SHALL BE TAKEN WHEN DOING WORK NEAR EXISTING PIT/STRUCTURES AND UNDERGROUND SERVICES. LOCATION & DEPTH OF ALL UNDERGROUND CABLES & SERVICES TO BE CONFIRMED PRIOR TO CONSTRUCTION. CONTACT "DIAL BEFORE YOU DIG" ON 1100

NOT FOR CONSTRUCTION
CONCEPT PLAN FOR COUNCIL APPROVAL

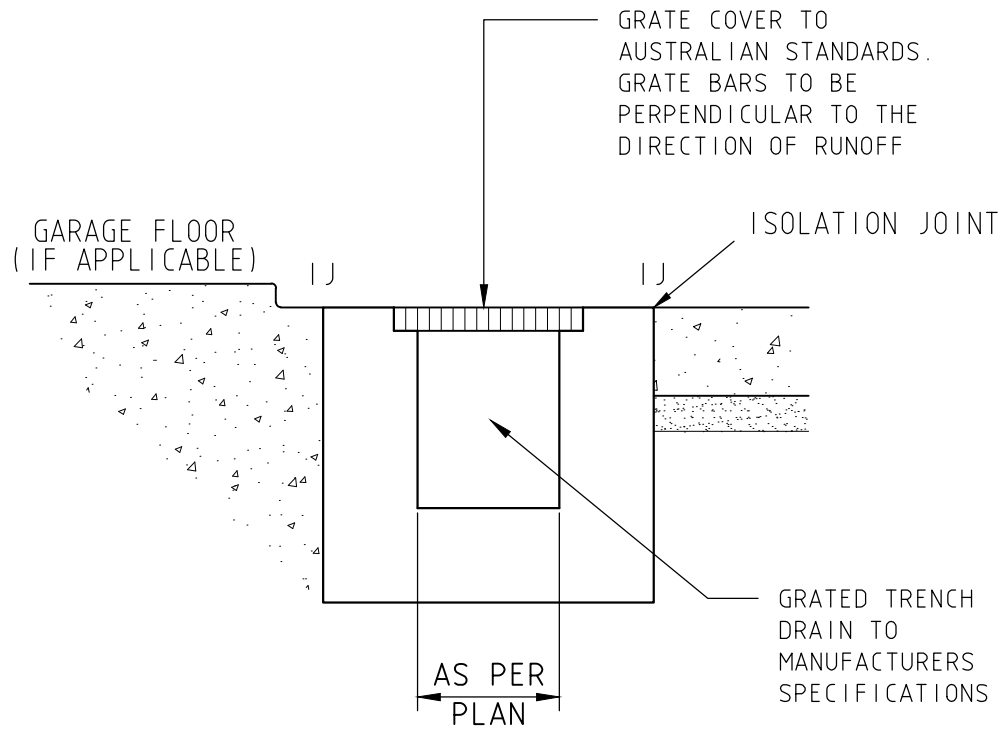
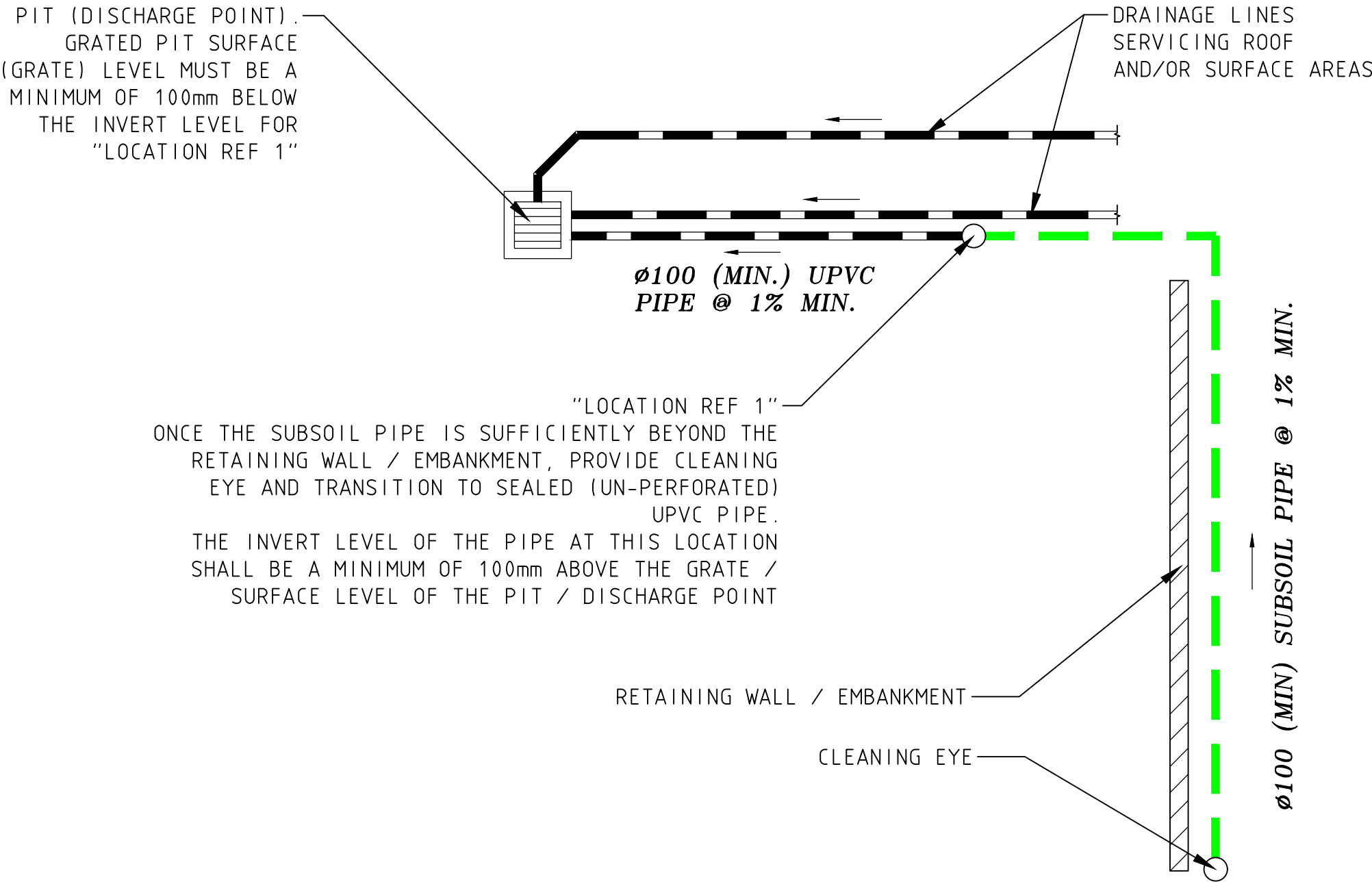
GILCON
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CLIENT: TARNEE & RICHARD ZARZECZNY
PROJECT: PROPOSED ALTERATIONS AND ADDITIONS AT 43 ALLEYNE AVENUE, NORTH NARRABEEN NSW

APPROVED:
ADAM GILLET
B.E (Hons) M.I.E. AUST CPEng NER

DRAWING TITLE: GENERAL DRAINAGE LAYOUT PLAN AND NOTES

			DRAWN BY: TM	ENGINEER: TM
			DATE: 19/12/2023	
A	19/12/2023	ISSUE FOR DA	SCALE: AS SHOWN ON A1	SHEET No:
ISSUE	DATE	REVISIONS:	JOB NO: 231139	C01

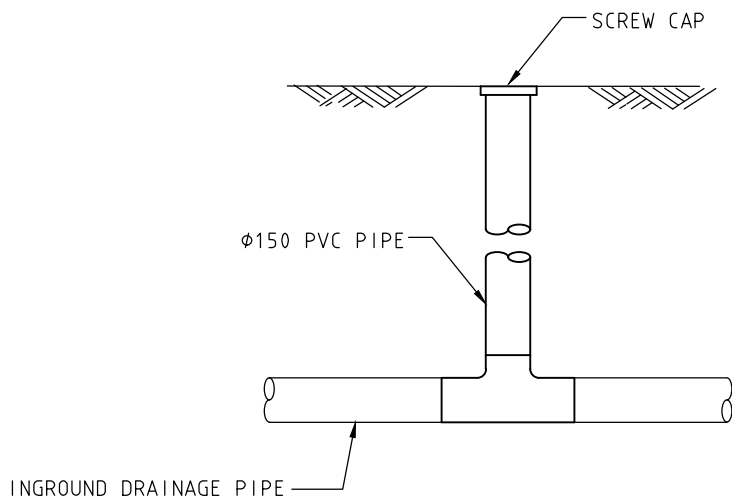


TYPICAL DETAIL - GRATED TRENCH DRAIN
(FOR PAVED AREAS)
NTS

TYPICAL SUBSOIL DRAINAGE LAYOUT DETAIL
NTS

NOTES:

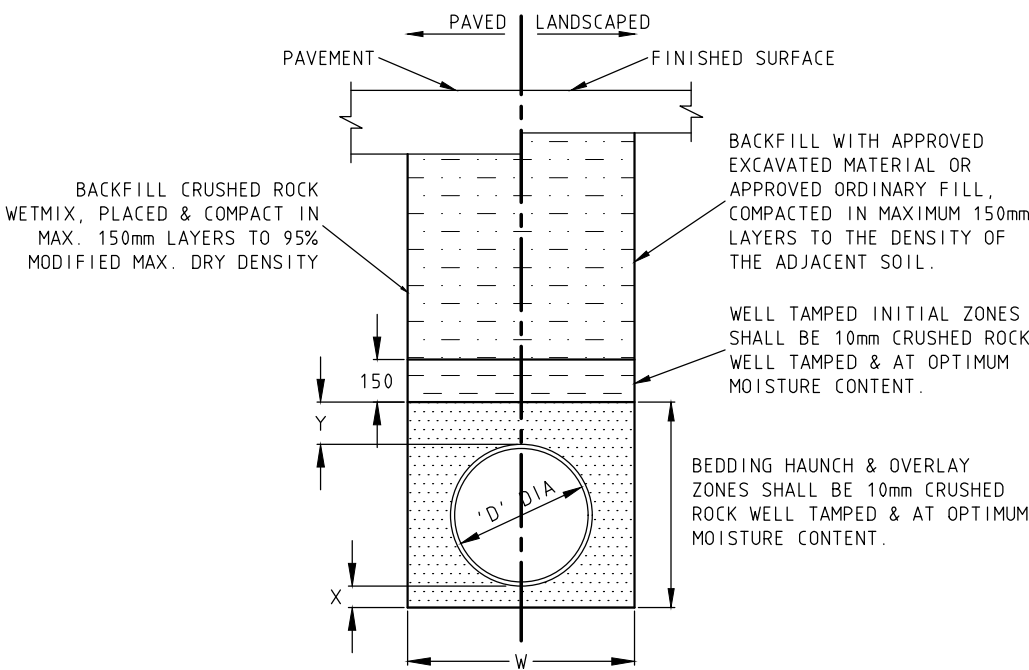
- SUBSOIL PIPES MUST REMAIN INDEPENDENT FROM ALL OTHER DRAINAGE SYSTEMS (ROOF, SURFACE ETC), AND MUST DISCHARGE INDEPENDENTLY. THE POINT OF DISCHARGE MAY BE A PIT OR OTHER POINT THAT HAS ATMOSPHERIC DISCHARGE. THE POINT OF DISCHARGE MUST HAVE A SURFACE (OR GRATE LEVEL FOR A PIT) THAT IS A MINIMUM OF 0.1m BELOW THE LOWEST INVERT LEVEL OF THE SUBSOIL PIPE ("LOCATION REF 1")
- CONTACT THIS OFFICE IF FURTHER ADVICE IS REQUIRED



TYPICAL DETAIL -
INSPECTION / CLEANING EYE
N.T.S

NOTE:

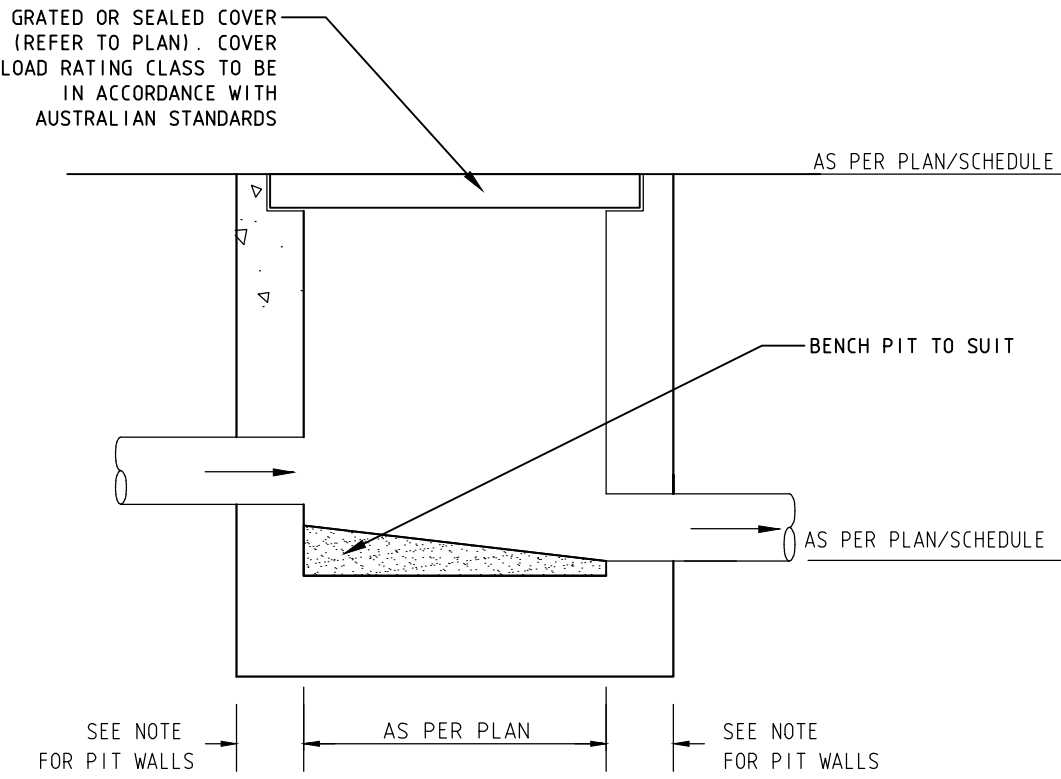
CLEANING EYE TO BE PROVIDED AT START OF CHARGED LINES AND AT CRITICAL JUNCTIONS TO BUILDERS DETAIL



NOTE:
1. REFER TO PIPE LAYING SPECIFICATIONS FOR DETAILS.

TYPICAL DETAIL - UPVC
PIPE LAYING
N.T.S

PIPE DIA 'D'	W	X MIN	Y
100-150	300	75	75
225-300	600	75	75



TYPICAL PIT DETAIL
N.T.S

PIT WALLS TO BE EITHER:

- 150mm 20MPa IN-SITU CONCRETE WITH N12 AT 400mm CENTRES EACH WAY, OR
- 200mm GROUT FILLED CONCRETE BLOCKS WITH N12 AT 400mm CENTRES EACH WAY, OR
- 110mm BRICK WITH ENGAGED PIERS AT MID SPAN AND AT CORNERS
- PRECAST CONCRETE PIT TO MANUFACTURERS SPECIFICATIONS, DETAILS TO BE PROVIDED
- PITS GREATER THAN 1m DEPTH MUST BE PRECAST CONCRETE PIT TO MANUFACTURERS SPECIFICATIONS

NOT FOR CONSTRUCTION
CONCEPT PLAN FOR COUNCIL APPROVAL

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