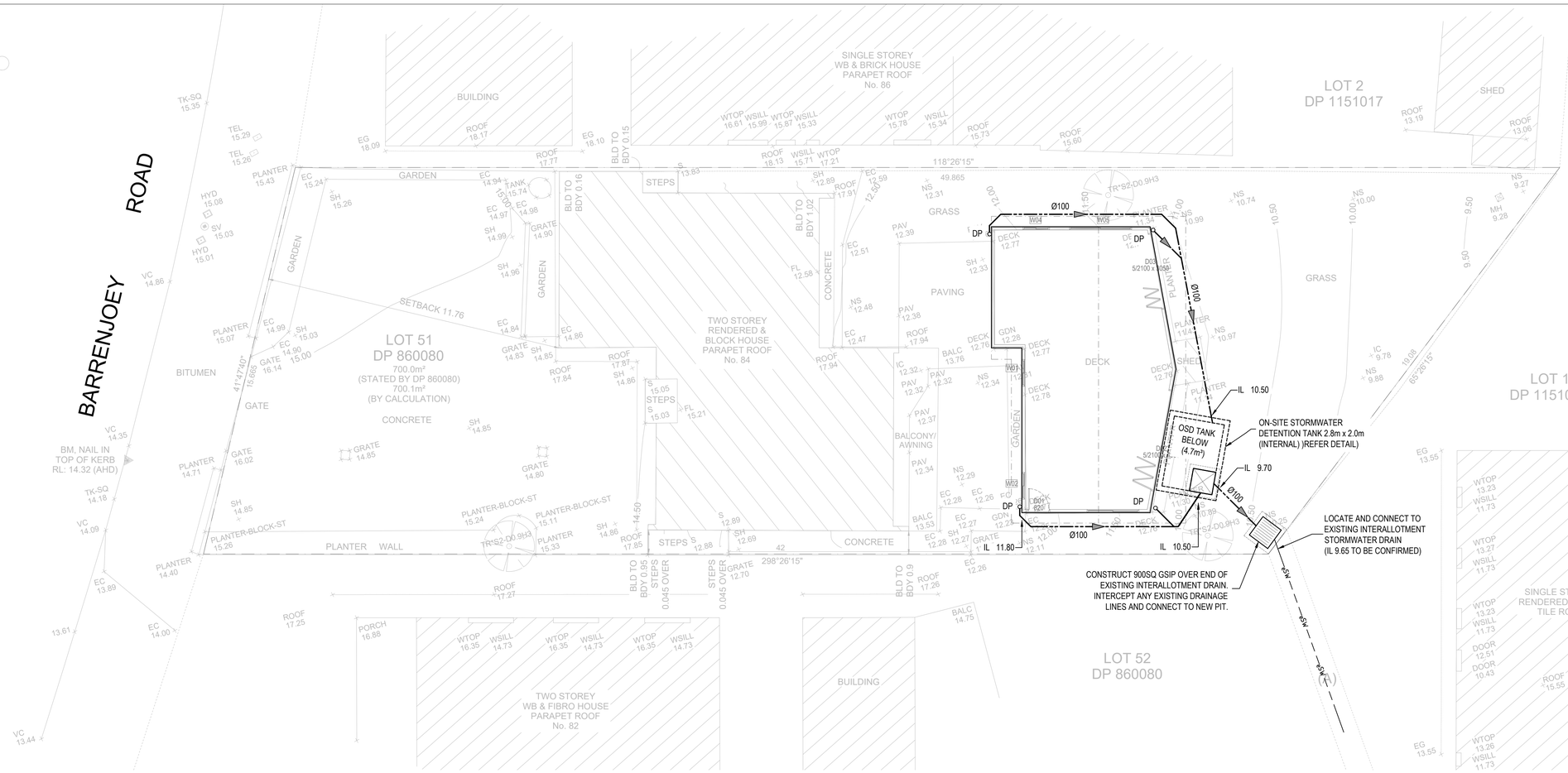
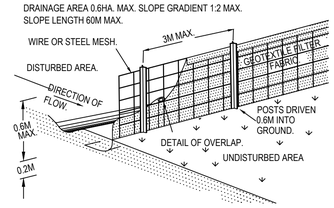
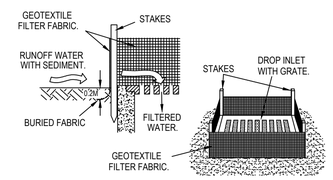


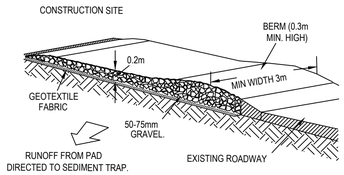
PLAN
SCALE 1:100



TEMPORARY SEDIMENT FENCE
NOT TO SCALE



GEOTEXTILE FILTER FABRIC DROP INLET SEDIMENT TRAP
NOT TO SCALE



TEMPORARY CONSTRUCTION EXIT
NOT TO SCALE

STORMWATER DRAINAGE

1. ALL PIPE WORK SHALL BE INSTALLED AND TESTED TO AS3500.

2. ALL PIPE PENETRATIONS THROUGH CONCRETE STRUCTURAL ELEMENTS SHALL BE COORDINATED AND WHERE POSSIBLE CAST-IN PRIOR TO THE PLACEMENT OF CONCRETE. THE CONTRACTOR SHALL NOT CUT OR MOVE ANY STEEL REINFORCING BARS TO SUIT A PIPE PENETRATION UNLESS APPROVED IN WRITING BY THE BUILDER AND OR THE PROJECTS STRUCTURAL ENGINEER.

3. ALL CORE HOLE LOCATIONS SHALL BE APPROVED IN WRITING BY THE BUILDER AND OR THE PROJECTS STRUCTURAL ENGINEER PRIOR TO THE COMMENCEMENT OF ANY CORING ACTIVITIES. THE CONTRACTOR SHALL PROVIDE AND REMOVE ON COMPLETION ALL

4. TIMBERING AND SHORING AS NECESSARY TO CONSTRUCT THE PIPEWORK. WHERE THE CLEARANCE FROM THE TOP OF PIPE WORK TO THE UNDERSIDE

5. OF A FOOTING IS LESS THAN 150mm THEN THE CONTRACTOR SHALL INSTALL AN 80mm COMPRESSIBLE MATERIAL OVER THE PIPE WORK. ALL DRAINS SHALL BE SUPPORTED ON FIRM GROUND. UPON EXCAVATION

6. TO THE REQUIRED LEVELS, IF SOFT OR WATER CHARGED GROUND IS ENCOUNTERED, THEN THE CONTRACTOR SHALL NOTIFY THE BUILDER IMMEDIATELY AND AWAIT FURTHER DIRECTION PRIOR TO PROCEEDING WITH ANY PIPE LAYING.

HYDRAULIC SERVICE MATERIALS

1. STORMWATER DRAINAGE PIPES
   - DN100 OR SMALLER SHALL BE UPVC STORMWATER DRAINAGE PIPE TO AS1254
   - DN150 TO DN300 SHALL BE UPVC CLASS SN4 (SEWER HEAVY GRADE)
   - DN375 OR LARGER SHALL BE REINFORCED CONCRETE OR FIBRE REINFORCED CONCRETE PIPE

2. ALL DOWNPIPES SHALL BE DN100 OR 100x75mm RHS UNLESS NOTED OTHERWISE ON THE DRAWINGS

EAVES GUTTER AND DOWNPIPE NOTES:

1. ALL EAVES GUTTERS SHALL BE Q125 QUAD OR EQUAL WITH MATERIAL AND COLOUR AS SPECIFIED BY THE ARCHITECT.

2. ALL DOWNPIPES SHALL BE DN100 OR 100x75 RHS WITH MATERIAL AND COLOUR AS SPECIFIED BY THE ARCHITECT.

SEDIMENT AND EROSION CONTROL:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED, PLACED AND MAINTAINED IN ACCORDANCE WITH THE DEPARTMENT OF HOUSING'S "MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION" MANUAL.

2. NO CONSTRUCTION WORKS ARE TO COMMENCE ON SITE UNTIL ALL EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND HAVE BEEN INSPECTED AND APPROVED BY THE PRINCIPAL CERTIFYING AUTHORITY.

3. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REGULARLY INSPECTED, IN PARTICULAR AFTER STORMS, AND REPAIRED OR MAINTAINED AS REQUIRED TO ENSURE THE MEASURES' CORRECT AND EFFICIENT FUNCTION THROUGHOUT THE DURATION OF THE WORKS, UNTIL SUCH TIME AS THE PRINCIPAL CERTIFYING AUTHORITY AUTHORISES THE REMOVAL OF SUCH MEASURES.

4. ALL STOCKPILES SHALL BE CLEAR OF ALL TREES AND DRAINAGE LINES (INCLUDING OVERLAND FLOW PATHS) AND PROTECTED FROM EROSION.

5. DUST CONTROL MEASURES SHALL BE IMPLEMENTED CONTINUOUSLY DURING CONSTRUCTION WORKS.

ALL GRATES FOR ALL PITS SHALL BE HINGED AND HAVE A CHILD PROOF LOCKING MECHANISM

LEGEND

- Ø100 — STORMWATER DRAINAGE LINE (GRAVITY LINE)
- DP — ROOF DRAINAGE DOWNPIPE
- GSIP — STORMWATER DRAINAGE PITS

0 2 4 6 8 10m
SCALE 1:100

REV	BY		DATE	APPROVED BY
A	S.V.	ISSUED FOR DA APPROVAL	19.06.20	A. MANCONE
		AMENDMENTS		

1:100
0 10 20 30 40 50 100 mm

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VD&D
STRUCTURAL.CIVIL.ARCHITECTURAL

CLIENT: MR. ANDREW SUMNER

DESIGNED / APPROVED: ANTHONY MANCONE
BE(Civil)Hons, MIEAust, CPEng, NER, APEC Eng, Int(PE)Aust

PROJECT: PROPOSED SECONDARY DWELLING
84 BARRENJOEY ROAD,
MONA VALE, NSW, 2103

DRAWING STATUS: ISSUED FOR DA APPROVAL

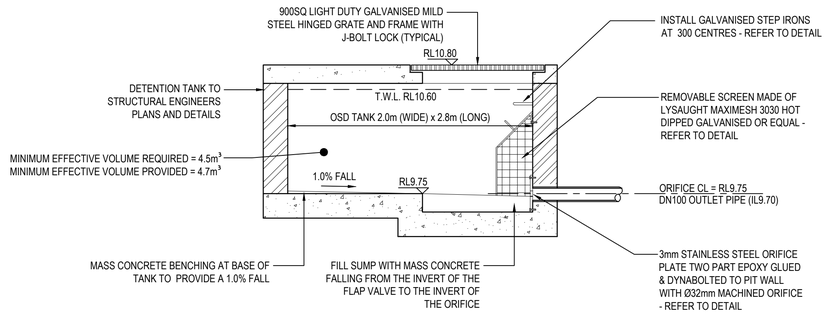
DRAWING TITLE: STORMWATER DRAINAGE PLAN & SEDIMENT & EROSION CONTROL DETAILS

DESIGNED: A.M.	DRAWN: S.V.
CHECKED: ANTHONY MANCONE	
SCALE: 1:100 @ A1	DATE: JUNE/2020
PROJECT No: VDD2047	
DRAWING No: C001	REV ISSUE: A

ON-SITE STORMWATER DETENTION CALCULATION

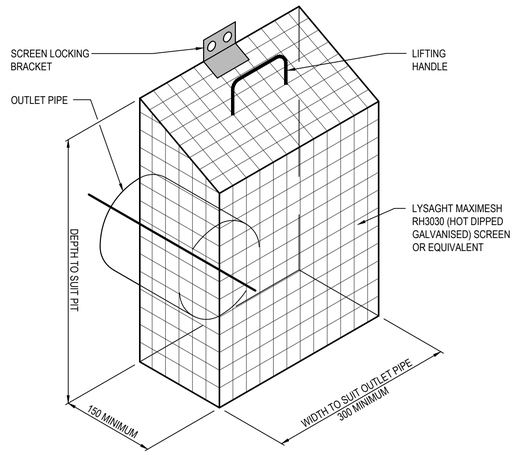
MAXIMUM DEPTH	=	0.850 m
LENGTH	=	2.00 m
WIDTH	=	2.80 m
SLOPE OF BASE	=	0.010 m/m
VOLUME	=	4.70 cu.m
PSD	=	2 l/s
COEFF. OF DISCHARGE	=	0.62
ORIFICE DIAMETER	=	32 mm

FROM COUNCIL DCP, AN ADDITIONAL 50-75m² OF ADDITIONAL IMPERVIOUS AREA REQUIRES 4.5m³ OF OSD STORAGE. THEREFORE 4.7m³>4.5m³ = OK!



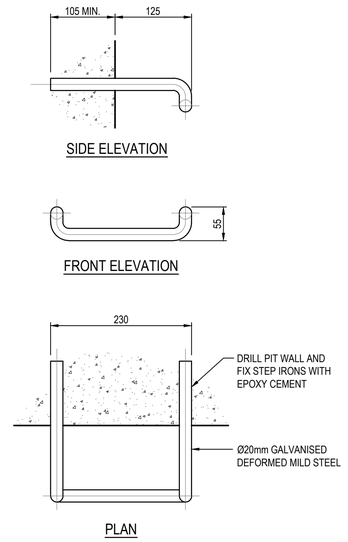
ON-SITE STORMWATER DETENTION (OSD) TANK DETAIL

SCALE 1:25



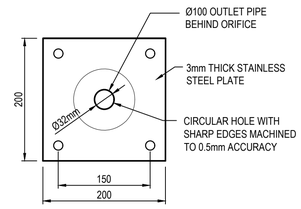
TRASH SCREEN DETAIL (TYPICAL)

SCALE 1:5



STEP IRON DETAIL (TYPICAL)

SCALE 1:5



ORIFICE PLATE DETAIL

SCALE 1:5

0 500 1000 1500 2000 2500mm
500 250
SCALE 1:25

0 100 200 300 400 500mm
100 50
SCALE 1:5

REV	BY	AMENDMENTS	DATE	APPROVED BY
A	S.V.	ISSUED FOR DA APPROVAL	19.06.20	A. MANCONE

1:100
0 10 20 30 40 50 100 mm

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PROJECT:
PROPOSED SECONDARY DWELLING
84 BARRENJOEY ROAD,
MONA VALE, NSW, 2103

DRAWING STATUS:
ISSUED FOR DA APPROVAL

DRAWING TITLE:
ON-SITE STORMWATER DETENTION SYSTEM DETAILS

DESIGNED: A.M.	DRAWN: S.V.
CHECKED: ANTHONY MANCONE	
SCALE: 1:100 @ A1	DATE: JUNE/2020
PROJECT No: VDD2047	
DRAWING No: C002	REV ISSUE: A