STORWATER MANAGEMENT PLAN PROPOSED SECONDARY DWELLING UNIT IN 73 BRUNKER ROAD, YAGOONA, NSW 2199

GENERAL NOTES:

- 1. THE BUILDER/CONTRACTOR SHALL LOCATE ALL EXISTING PUBLIC UTILITY SERVICES WITHIN THE SITE, FOOTPATH AREA AND ROAD RESERVE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ALL LOCATIONS AND LEVELS OF SERVICES SHALL BE REPORTED TO THE STORMWATER ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS TO ENSURE THERE ARE NO OBSTRUCTIONS IN THE LINE OF THE DRAINAGE DISCHARGE PIPES.
- 2. THE BUILDER IS TO VERIFY ALL LEVELS ON SITE PRIOR TO COMMENCING CONSTRUCTION. SILT FENCE IS TO BE ERECTED PRIOR TO COMMENCING WORK, FENCE TO BE MAINTAINED IN WORKING ORDER DURING TIME OF
- 3. W.A.F. DRAWING BY A REGISTERED SURVEYOR IS REQUIRED PRIOR TO CERTIFICATION OF DRAINAGE.
- 4. ALL THE CLEANING EYES (OR INSPECTION EYES) FOR THE UNDER GROUND PIPES HAVE TO BE TAKEN UP TO THE FINISHED GROUND LEVEL FOR EASY IDENTIFICATION AND MAINTENANCE PURPOSES.
- 5. ALL TERRACE FLOOR & PLANTER GRATES TO HAVE FIRE COLLARS FITTED. 6. ALL PITS HAVING AN INTERNAL DEPTH THAT EXCEEDS 1.0m SHALL BE PROVIDED WITH GALVANISED STEP IRONS AT 300mm CENTRES PLACED IN A STAGGERED PATTERN AND SHALL BE IN ACCORDANCE WITH THE AUSTRALIAN STANDARDS AS 4198-1994.
- 7. ALL LEVELS SHALL RELATE TO THE ESTABLISHED BENCH MARK.
- 8. THE BASE OF ALL DRAINAGE PITS SHALL BE BENCHED TO THE INVERT OF THE OULET PIPE.
- 9. ALL GUTTERS SHALL BE MINIMUM 145 x 75mm AND DOWNPIPES SHALL BE MINIMUM 100 x 75mm UNLESS NOTED OTHERWISE.
- 10. ALL STORMWATER DRAINAGE PIPES SHALL BE A MINIMUM Ø100mm PVC LAID AT 1% MINIMUM GRADE UNLESS NOTED OTHERWISE ON THE DRAWING. WHERE GROUND COVER OVER THE PIPES IS LESS THAN 300mm THE STORMWATER PIPES SHALL BE SEWER GRADE uPVC.
- 11. THE BUILDER SHALL ENSURE THAT THE STORMWATER ENGINEERING DRAWINGS CORRESPOND TO THE ARCHITECTURAL, STRUCTURAL AND LANDSCAPE DRAWINGS .
- 12. IF THERE EXISTS ANY DISCREPANCIES BETWEEN THE DRAWINGS THE BUILDER SHALL REPORT THE DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCEMENT OF ANY WORKS.
- 13. ALL MULCHING TO BE USED WITHIN THE AREA DESIGNATED AS ON SITE DETENTION STORAGE SHALL BE OF A NON-FLOATABLE MATERIAL SUCH AS DECORATIVE RIVER GRAVEL. PINE BARK MULCHING SHALL NOT BE USED WITHIN THE DETENTION STORAGE AREA.
- 14. ALL WORKS WITHIN THE FOOTPATH AREA SHALL BE SUITABLY BARRICADED AND SIGNPOSTED IN ACCORDANCE WITH A TRAFFIC MANAGEMENT PLAN THAT HAS BEEN PREPARED BY A QUALIFIED AND RMS ACCREDITED TRAFFIC ENGINEER AND APPROVED BY COUNCIL.
- 15. IT IS THE RESPONSIBILITY OF THE BUILDER OR CONTRACTOR CARRYING OUT THE WORKS WITHIN THE FOOTPATH AREA AND ROAD RESERVE TO OBTAIN THE NECESSARY APPROVED DOCUMENTS AS OUTLINED ABOVE.
- 16. ALL RETAINING WALLS SHALL BE CONSTRUCTED COMPLETELY WITHIN THE PROPERTY BOUNDARY LIMITS TO DETAILS PREPARED BY THE STRUCTURAL ENGINEER. WALLS FORMING THE ON SITE DETENTION SYSTEM SHALL BE OF MASONARY/BRICK CONSTRUCTION AND SHALL BE WATER TIGHT.
- 17. ALL SUB-SOIL DRAINAGE SHALL BE A MINIMUM OF Ø65mm AND SHALL BE PROVIDED WITH A FLITER SOCK. THE SUBSOIL DRAINAGE SHALL BE INSTALLED IN ACCORDANCE WITH DETAILS TO BE PROVIDED BY THE LANDSCAPE ARCHITECT.
- 18. PRIOR TO COMMENCING ANY WORKS ON THE SITE, THE BUILDER SHALL ENSURE THAT THE INVERT LEVELS OF WHERE THE SITES STORMWATER SYSTEM CONNECTS INTO THE COUNCIL'S KERB/DRAINAGE SYSTEM MATCHES THE DESIGN LEVELS. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY.

Registered Professional Engineer 9671388

Register on the NPER in the Category of **Civil/Structural**

National Professional Engineers Register

..Date 17 / 05 / 2024

T L Pradeep
MIEAust CPEng NER APEC Enginee

SERVICES NOTES

- 1. IT IS THE CONSTRUCTORS RESPONSIBILITY TO NOTIFY THE RELEVANT SERVICES AUTHORITIES OF THE WORKS AND VERIFY THE LOCATION OF ALL EXISTING SERVICES PRIOR TO ANY CONSTRUCTION ACTIVITIES COMMENCING.
- 2. THE CONSTRUCTOR SHALL LIAISE AND COORDINATE THE TIMING OF THE CONSTRUCTION OF THE WORKS WITH THE RELEVANT SERVICES AUTHORITIES AND/OR OTHER CONSTRUCTORS INSTALLING SERVICES CONCURRENTLY AT
- THE LOCATION OF ALL EXISTING SERVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND HAVE BEEN TAKEN FROM INFORMATION PROVIDED BY THE RELEVANT SERVICE AUTHORITIES.
- 4. THE CONSTRUCTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE CAUSED TO EXISTING SERVICES AS A RESULT OF THE CONSTRUCTION WORKS.
- THE COORDINATION OF TELECOMMUNICATIONS, ELECTRICAL, GAS, WATER, SEWER, STORMWATER AND ANY OTHER SERVICE SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTOR.

RAINWATER TANK NOTES

- 1. LABELS SHALL BE FIXED ADJACENT TO ALL OUTDOOR WATERING TAPS STATING THAT THE WATER IS NOT TO BE CONSUMED.
- 2. AN EMERGENCY MAINS TAP SHALL BE PROVIDED ADJACENT TO THE WATER
- METER AND CONNECTED TO THE MAINS SUPPLY RAINWATER TANK SUPPLY SHALL NOT BE CONNECTED TO DRINKING AND
- BATHING WATER TAP OUTLETS. 4. FIRST FLUSH DEVICES TO BE FITTED TO ALL DOWNPIPES CONNECTED TO
- 5. TANK SHALL BE CONNECTED TO A SYDNEY WATER APPROVED CONTROL PANEL TO ENSURE MAINS WATER SUPPLY IS PROVIDED WHEN TANK EMPTIES.
- 6. ALL PIPES WITHIN CHARGED RAINWATER COLLECTION SYSTEM TO BE MIN. ϕ 100 uPVC AND ALL JOINTS SOLVENT WELDED.
- 7. ALL PLUMBING WORKS SHALL BE CARRIED OUT BY A LICENSED PLUMBER IN ACCORDANCE WITH SYDNEY WATER GUIDELINES AND THE "NSW CODE OF PRACTICE: PLUMBING & DRAINAGE".

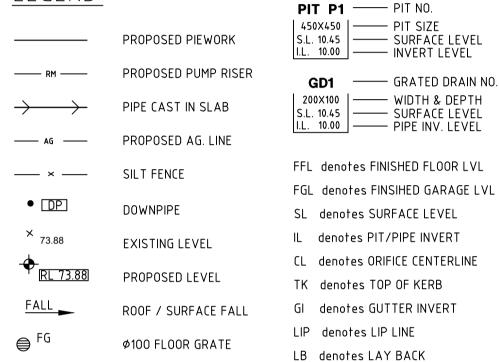
SEDIMENT & EROSION CONTROL NOTES

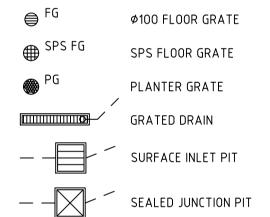
- 1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED PLACED AND MAINTAINED IN ACCORDANCE WITH RYDE CITY COUNCIL STANDARDS AND THE DEPARTMENT OF HOUSING'S "MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION" MANUAL
- 2. NO CONSTRUCTION WORKS ARE TO COMMENCE ON SITE UNTIL ALL EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND HAVE BEEN INSPECTED AND APPROVED BY THE PRINCIPAL CERTIFYING AUTHORITY
- 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
- 6. ALL AREAS OF THE SITE DISTRUBED AND GRADED SHALL BE REVEGETATED
 - AS SOON AS CONSTRUCTION WORKS HAVE BEEN COMPLETED. GEOIEXIILE

BOX GUTTER NOTES

- 1. ALL BOX GUTTERS TO HAVE A MINIMUM UNIFORM SLOPE OF 0.5% OVER THE ENTIRE GUTTER LENGTH U.N.O.
- 2. PLUMBER /BUILDER IS TO ENSURE THAT ALL EMERGENCY OVERFLOW PROVISIONS DETAILED ARE IMPLEMENTED IN ACCORDANCE WITH THE APPROVED PLANS AS WELL AS ADDITIONAL MEASURES WHERE DEEMED **NECESSARY ON SITE**
- 3. BOX GUTTER WIDTH AND DEPTH SHOWN ON THIS PLAN ARE THE MINIMUM ALLOWABLE DIMENSIONS AT THE UPSTREAM END/CREST OF GUTTER U.N.O.
- ALL RESIDENTIAL BOX GUTTERS TO HAVE A MINIMUM WIDTH OF 200MM

LEGEND





BP denotes BACK of PATH FP denotes FRONT of PATH BDY denotes BOUNDARY EB denotes EDGE OF BITUMEN

CR denotes CENTRELINE PP denotes POWER POLE

SC denotes SAW CUT

- SUSPENDED DRAINAGE NOTES 1. ALL SUSPENDED DRAINAGE LINES TO BE SEWER GRADE uPVC U.N.O. 2. ALL LINES SHALL BE SOLVENT WELDED AND PRESSURE TESTED IN
- ACCORDANCE WITH AS3500.3-2018 TO ENSURE WATERTIGHTNESS 3. ALL SUSPENDED LINES SHALL BE SUPPORTED AT MAX. 1200 CENTERS WITH LIGHT DUTY FIXTURES IN ACCORDANCE WITH THE MANUFACTURERS
- 4. WHERE NOTED, CHARGED LINES MUST BE SUPPORTED WITH HEAVY DUTY FIXTURES CAPABLE OF SUPPORTING THE WEIGHT OF A FULLY CHARGED
- 5. STORMWATER SHALL TAKE PRECEDENCE TO ALL NON-GRAVITY SERVICES. ANY SERVICE CLASHES OR DISCREPANCIES MUST BE REPORTED TO THE DESIGNING ENGINEER IMMEDIATELY

SERVICES ARE SHOWN

INDICATIVLY ONLY.

ALL SERVICES MUST BE LOCATED PRIOR TO

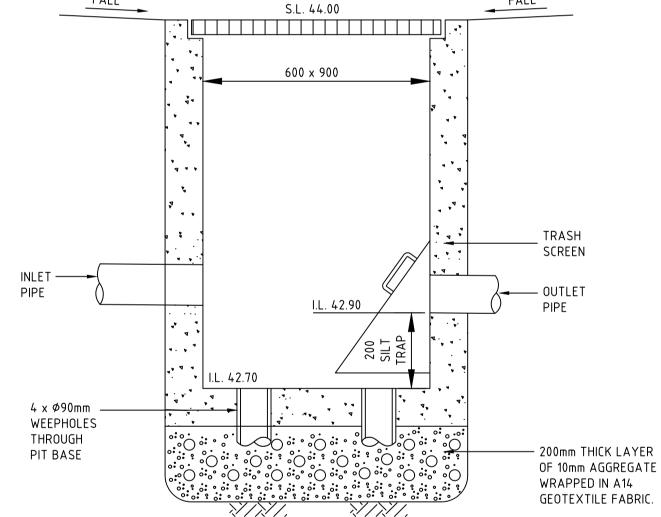
ANY EXCAVATION WITHIN SITE, FOOTPATH

OR ROADWAY

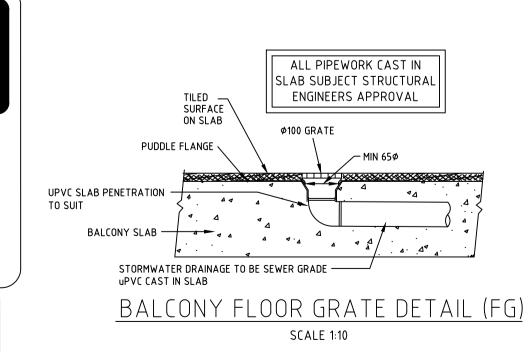
GRATE & FRAME 'A' x 'B' WALLS TO BE 100 MIN. THICK _ EACH WAY MIN. 20mm MASS CONC. BENCHING TO OUTLET INLET PIPE OUTLET PIPE REO SPACING 350 D ≤ 450 350 N12-400 H + V 100 MIN. THICK 450 450 < D ≤ 600 450 600 600 < D ≤ 900 600 N12-200 H + V 900 < D ≤ 1200 600 900 150 N12 CORNER

CLASS 'B' LIGHT DUTY





SILT ARRESTOR PIT 'P1' DETAIL



—uPVC PIPE (AS SPECIFIED) — SCREW-CAP SEALED INSPECTION OPENING (I.O.) - Ø100 PVC ORIFICE DISK SOLVENT WELDED WITHIN Ø100 I.O. JUNCTNO (REFER TO PLAN FOR CENTERLINE LEVEL AND OPENING DIAMETER)

RAINWATER TANK ORIFICE DETAIL SCALE 1:10

ROOF NOTES

CONSTRUCT DRIVEWAY TO

DESIGN GRADES.

INSTALL 50mm uPVC SPITTER PIPES 20mm ABOVE SURFACE LEVEL FOR BALCONY AND CONCRETE ROOF AREAS TO ALLOW FOR EMERGENCY OVERFLOW INCASE OF BLOCKAGES DURING HEAVY STORMS. PLUMBER TO CONFIRM LOCATION DURING CONSTRUCTION.

VARIABLE WIDTH

TYPICAL GRATED DRAIN DETAI

NOT TO SCALE

GRATED DRAIN.

SL72 MESH

ALL BUILDING AND HYDRAULIC SERVICES TO BE PROPERLY CO-ORDINATED WITH STORMWATER PIPES AND ENSURE NO CLASHES ARE PRESENT DURING CONSTRUCTION (TYP).

STORMWATER PIPE ARRANGEMENT TO BE CO-ORDINTED WITH STRUCTURAL SLAB AND BEAMS WHERE REQUIRED (TYP).

BALCONY, TERRACE & CONCRETE ROOF AREAS TO SLOPE TOWARDS RAINWATER OUTLETS WHERE REQUIRED (TYP).

ARROW DENOTES THE SLOPE OF FINISHED SURFACE LEVEL (TYP).

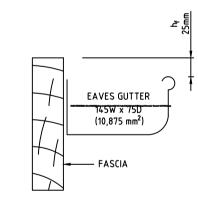
DOWNPIPES SHOWN ON PLAN ARE TO BE \$\phi 100mm uPVC U.N.O. (TYP).

PROPOSED DOWNPIPE LOCATIONS ARE NOMINAL AND TO BE CONFIRMED DURING CONSTRUCTION

INSTALL DOWNPIPE WITH SPREADER (IF REQUIRED) TO DISPERSE STORMWATER ONTO LOWER ROOF AREAS EFFECTIVELY.

PROVIDE SURFACE DRAINAGE FOR ALL CONCRETE AND BALCONY ROOF AREAS WHERE REQUIRED.

ALL THE CONSTRUCTION STEPS SHALL BE SUPERVISED BY THE STRUCTURAL ENGINEER



TYPICAL EAVES GUTTER DETAIL (TYPE LOW-FRONT) NOT TO SCALE

STORMWATER DESIGN COMPLY WITH SEPP CODE CLAUSE 3.31 AND COUNCIL'S DCP. AS3500.3 AND BCA

T L PRADEEP

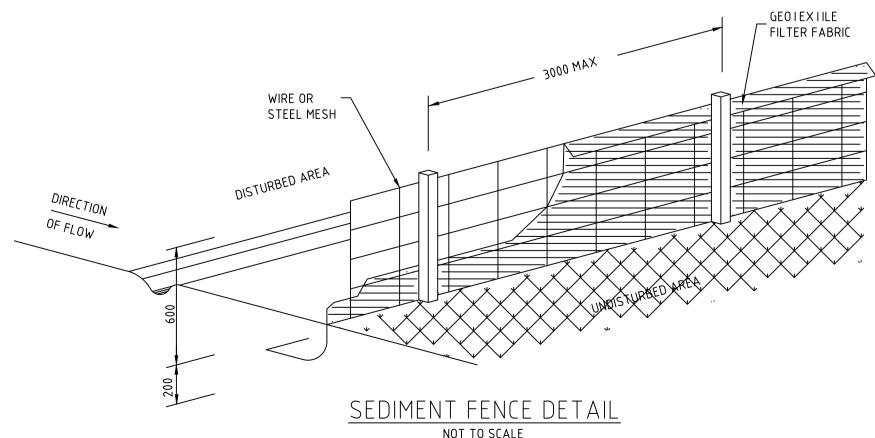
MIEAust CPEng NER APEC Engineer IntPE(Aus) EA ID:

RPEQ MIEAust CPEng NER APEC

Chartered Engineer (Civil / Structural / Geotechnical), Engineers Australia EA ID: 9671388

Registered Professional Engineer (NSW) PRE0002243 Registered Principal Design practitioner (NSW) PDP0001240

Registered Design practitioner (NSW) DEP0003694



NOT TO SCALE

ABN 97 655 519 949

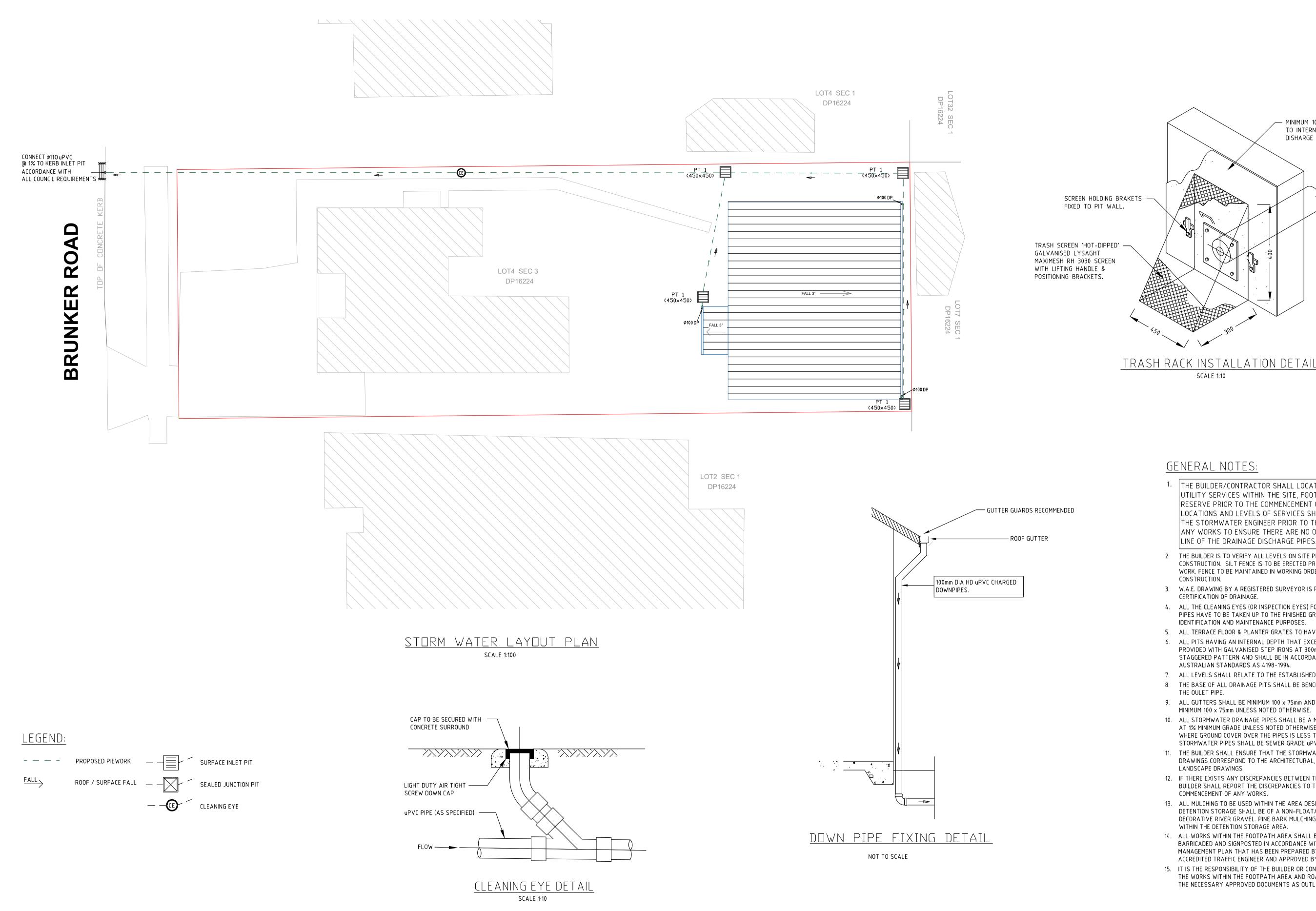
ECO CONSULTING UNIT 142/23 NORTON STREET, LEICHHARDT, NSW 2040. AUSTRALIA PHONE 02 95 692 430

AMENDMENTS APP **REV DESCRIPTION** ISSUED FOR CLIENT TLP 06/05/2024 ISSUED FOR CLIENT TLP

PROJECT PROPOSED SECONDARY DWELLING UNIT IN 73 BRUNKER ROAD YAGOONA, NSW 2199

CLIENT MR. MOHAMMAD KHAN LOCATION 73 BRUNKER ROAD YAGOONA, NSW 2199

DRAWING TITLE DRAWN BY UN **ISSUE** TITLE PAGE, GENERAL NOTE AND DETAILS TLP CHECKED BY **APPROVED BY** | TLP DISIPLINE DRAWING NO 17/05/2024 LSECO-STW-D1-1003-A1-1 DATE SCALE SHEET SIZE AS SHOWN





SCALE 1:10

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MINIMUM 10mm THICK RENDER TO INTERNAL WALLS OF DISHARGE CONTROL PIT.

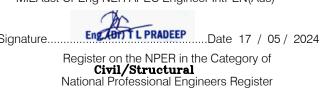
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LANDSCAPE DRAWINGS .

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Registered Professional Engineer 9671388 T L Pradeep

MIEAust CPEng NER APEC Engineer IntPEN(Aus)





AMENDMENTS			
REV DESCRIP	TION APP	DATE	
A0 ISSUED FOR CLIENT	TLP	06/05/2024	
A1 ISSUED FOR CLIENT	TLP	17/05/2024	

PROJECT
PROPOSED SECONDARY DWELLING UNIT IN 73 BRUNKER ROAD
DWELLING UNIT IN 73
BRUNKER ROAD
YAGOONA, NSW 2199

CLIENT	LOCATION
MR. MOHAMMAD KHAN	73 BRUNKER ROAD YAGOONA, NSW 2199

DRAWN BY	UN	DRAWING TITLE STORM WATER LAYOUT, GENERAL NOTE AND		ISSUE
CHECKED BY	TLP	DETAILS		02
APPROVED BY	TLP	DISIPLINE		
DATE	17/05/2024	DRAWING NO	LSECO-STW-D1-1003-A1-2	
SCALE	AS SHOWN	SHEET SIZE	A 1	