STORMWATER MANAGEMENT PLAN PROPOSED DEVELOPMENT No. 29 GREGORY STREET, YAGOONA

GENERAL NOTES

- 1. FINAL LOCATION OF NEW DOWNPIPES TO BE DETERMINED BY BUILDER/ARCHITECT AT TIME OF CONSTRUCTION.
- 2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTS AND OTHER CONSULTANTS DRAWINGS. ANY DISCREPANCIES TO BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH WORK
- 3. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH AS/NZS 3500.3:2021 STORMWATER DRAINAGE, BCA AND LOCAL COUNCIL POLICY/CONSENT/REQUIREMENTS.
- 4. ALL DIMENSIONS AND LEVELS TO BE VERIFIED BY BUILDER ON-SITE PRIOR TO COMMENCEMENT OF WORKS. THESE DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS NOR TO BE USED FOR SETOUT PURPOSES.
- 5. ALL SURVEY INFORMATION AND PROPOSED BUILDING AND FINISHED SURFACE LEVELS SHOWN IN THESE DRAWINGS ARE BASED ON LEVELS OBTAINED FROM DRAWINGS BY OTHERS.

- 6. ALL STORMWATER DRAINAGE PIPES ARE TO BE uPVC AT MINIMUM 1% GRADE UNI ESS NOTED OTHERWISE
- 7. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL EXISTING SERVICES OR OTHER STRUCTURES WHICH MAY AFFECT/BE AFFECTED BY THIS DESIGN PRIOR TO COMMENCEMENT
- 8. ALL PITS WITHIN DRIVEWAYS TO BE 150mm THICK CONCRETE OR EQUAL
- 9. THIS PLAN IS THE PROPERTY OF RESOLUTE STORMWATER AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION FROM RESOLUTE STORMWATER.

PLAN SPECIFIC NOTES

- 1. ROOF DRAINAGE NOTE: TO BE ISSUED AT CC STAGE AS 3500 ROOF DRAINAGE REQUIRES EAVES GUTTERS TO BE SIZED FOR 20 YEAR 5 MIN. STORM = 205mm/hr. FOR EAVES GUTTERS, AS 3500.3:2021THEN HAS THE **FOLLOWING REQUIREMENTS:**
- i) FOR TYPICAL STANDARD OHAD GUTTER WITH-Ae = 8000mm² AND **GUTTER SLOPE 1:500 AND STEEPER. THIS REQUIRES ONE DOWNPIPE**
- ii) DOWNPIPES TO BE MINIMUM 90mm DIA. OR 100 x 50mm FOR GUTTERS SLOPE 1:500 AND STEPPER
- iii)-OVERFLOW METHOD TO FIGURE G1 OF AS 3500.3:2021 IT IS THE RESPONSIBILITY OF THE PLUMBER AND / OR BUILDER TO **COMPLY WITH THIS. THIS DRAWING SHOWS PRELIMINARY** LOCATIONS / NUMBERS OF DOWNPIPES ONLY WHICH ARE TO BE **VERIFIED BY BUILDER / PLUMBER**
- 2. TREE PRESERVATION: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PRIOR APPROVAL REQUIRED FROM COUNCIL WITH RESPECT TO POTENTIAL IMPACT ON TREES FOR ANY WORKS SHOWN ON THIS DRAWING PRIOR TO THE COMMENCEMENT OF
- 3. ALL ROOF GUTTERS TO HAVE OVERFLOW PROVISION IN ACCORDANCE WITH AS 3500.3:2021 AND SECTIONS 3.7.3, 3.7.7, 4.6 AND APPENDIX F OF
- 4. THIS DRAWING IS NOT TO BE USED FOR SET-OUT PURPOSES REFER TO ARCHITECTURAL DRAWINGS
- 5. LOCATION OF SURFACE STORMWATER GRATED INLET PITS MAY BE VARIED OR NEW PITS INSTALLED AT THE CONSTRUCTION STAGE PROVIDED DESIGN INTENT OF THIS DRAWING IS MAINTAINED

| (| EGEND GRATED TRENCH DRAIN | | SURFACE INLET PIT |
|----------|-------------------------------------|-----------|---|
| | ABSORPTION TRENCH | 00 | SURFACE INLET PIT (WITH ENVIROPDD 200 MICRON) |
| - | PROPOSED ROOF GUTTER FALL | | ACCESS GRATE |
| ⊢● SP | PROPOSED DOWNPIPE SPREADER | امات | (WITH ENVIROPOD 200 MICRON) |
| | STORMWATER PIPE 100mm DIA. MIN. UNO | 450 X 450 | 450 SQUARE INTERVAL |
| —_a—_a—_ | SUBSOIL PIPE | SL 75.50 | GRATE LEVEL = 75.50 |
| sw | EXISTING STORMWATER PIPE | IL 75.20 | INVERT LEVEL = RL 75.20 |
| • IR | INSPECTION RISER | DP 90 | PROPOSED DOWNPIPE 90mm DIA. OR 100mm x 50mm MIN. |
| RWH | RAINWATER HEAD | × [10.00] | NATURAL GROUND FINISHED DESIGN LEVEL |

DRAINAGE NOTES

PIPE SIZE:

THE MINIMUM PIPE SIZE SHALL BE-

- 90mm DIA WHERE THE LINE ONLY RECEIVES ROOFWATER RUNOFF; OR 100mm DIA WHERE THE LINE RECEIVES RUNOFF FROM PAVED OR
- UNPAVED AREAS ON THE PROPERTY

THE MINIMUM PIPE VELOCITY SHOULD BE 0.6 m/s AND A MAXIMUM PIPE VELOCITY OF 6.0 m/s DURING THE DESIGN STORM

THE MINIMUM PIPE GRADE SHALL BE:

- 1.0% FOR PIPES LESS THAN 225mm DIA (UNO)
- 0.5% FOR ALL LARGER PIPES (LINO)

PIPES WITH A GRADIENT GREATER THAN 20% WILL REQUIRE ANCHOR BLOCKS AT THE TOP AND BOTTOM OF THE INCLINED SECTION: AND AT INTERVALS NOT

ANCHOR BLOCKS ARE DESIGNED ACCORDING TO CLAUSE 7.9 OF AS3500 3-2021

DEPTH OF COVER FOR PVC PIPES

MINIMUM PIPE COVER SHALL BE AS FOLLOWS:

| LOCATION | MINIMUM COVER |
|--------------------------------|--|
| NOT SUBJECT TO VEHICLE LOADING | 100mm SINGLE RESIDENTIAL 300mm ALL OTHER DEVELOPMENTS |
| SUBJECT TO VEHICLE LOADING | 450mm WHERE NOT IN A ROAD |
| UNDER A SEALED ROAD | 600mm |
| UNSEALED ROAD | 750mm |
| PAVED DRIVEWAY | 100mm PLUS DEPTH OF CONCRETE |
| | |

SEE AS2032 INSTALLATION OF UPVC PIPES FOR FURTHER INFORMATION.

CONCRETE PIPE COVER SHALL BE IN ACCORDANCE WITH AS3725-2007 LOADS ON BURIED CONCRETE PIPES, HOWEVER A MINIMUM COVER OF 450mm WILL APPLY.

WHERE INSUFFICIENT COVER IS PROVIDED, THE PIPE SHALL BE COVERED AT LEAST 50mm THICK OVERLAY AND SHALL THEN BE PAVED WITH AT LEAST:

- 150mm REINFORCED CONCRETE WHERE SUBJECT TO HEAVY VEHICLE
- 75mm THICKNESS OF BRICK OR 100mm OF CONCRETE PAVING WHERE SUBJECT TO LIGHT VEHICLE TRAFFIC; OR
- 50mm THICK BRICK OR CONCRETE PAVING WHERE NOT SUBJECT TO VEHICLE TRAFFIC.

CONNECTIONS TO STORMWATER DRAINS UNDER BUILDINGS:

SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 6.2.8 and 6.3.6 OF AS3500 3-2021

CONNECTIONS TO COUNCIL SYSTEM:

IF PROPOSED DRAINAGE SYSTEM IS DESIGNED TO CONNECT TO COUNCIL'S DRAINAGE SYSTEM. IT IS ADVISED THAT A 'WORKS PERMIT' IS OBTAINED FROM THE RESPECTIVE COUNCIL PRIOR TO COMMENCEMENT OF WORKS

ABOVE GROUND PIPEWORK:

SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 6 OF AS2032-2006

PIT SIZES AND DESIGN:

| DEPTH (mm) | MINIMUM PIT SIZE (mm) |
|-----------------|-----------------------------|
| UP TO 600mm | 450 x 450 |
| 600mm TO 900mm | 600 x 600 |
| 900mm TO 1200mm | 600 x 900 |
| OVER 1200mm | 900 x 900 (WITH STEP IRONS) |
| | |

ALL PIPES SHOULD BE CUT FLUSH WITH THE WALL OF THE PIT.

PITS GREATER THAN 600mm DEEP SHALL HAVE A MINIMUM ACCESS OPENING OF 600 x 600mm

THE GRATED COVERS OF PITS LARGER THAN 600 x 600mm ARE TO BE HINGED TO PREVENT THE GRATE FROM FALLING INTO THE PIT.

THE BASE OF THE DRAINAGE PITS SHOULD BE AT THE SAME LEVEL AS THE INVERT OF THE OUTLET PIPE. RAINWATER SHOULD NOT BE PERMITTED TO POND WITHIN THE STORMWATER SYSTEM

TRENCH DRAINS:

CONTINUOUS TRENCH DRAINS ARE TO BE OF WIDTH NOT LESS THAN 150mm AND DEPTH NOT LESS THAN 100mm. THE BARS OF THE GRATING ARE TO BE PARALLEL TO THE DIRECTION OF SURFACE FLOW

PITS BETWEEN 1.2m AND 6m ARE TO HAVE STEP IRONS IN ACCORDANCE WITH AS1657. FOR PITS GREATER THAN 6m OTHER MEANS OF ACCESS MUST BE PROVIDED.

PVC PITS WILL ONLY BE PERMITTED IF THEY ARE NOT A GREATER SIZE THAN 450 x 450mm (MAXIMUM DEPTH 450mm) AND ARE HEAVY DUTY

IN-SITU PITS ARE TO BE CONSTRUCTED ON A CONCRETE BED OF AT LEAST 150mm THICK. THE WALLS ARE TO BE DESIGNED TO MEET THE MINIMUM REQUIREMENTS OF CLAUSE 7.5.5.1 OF AS3500.3-2021. PITS DEEPER THAN 1.8m SHALL BE CONSTRUCTED WITH REINFORCED CONCRETE.

GRATES ARE TO BE GALVANISED STEEL GRID TYPE. GRATES ARE TO BE OF HEAVY-DUTY TYPE IN AREAS WHERE THEY MAY BE SUBJECT TO VEHICLE LOADING.



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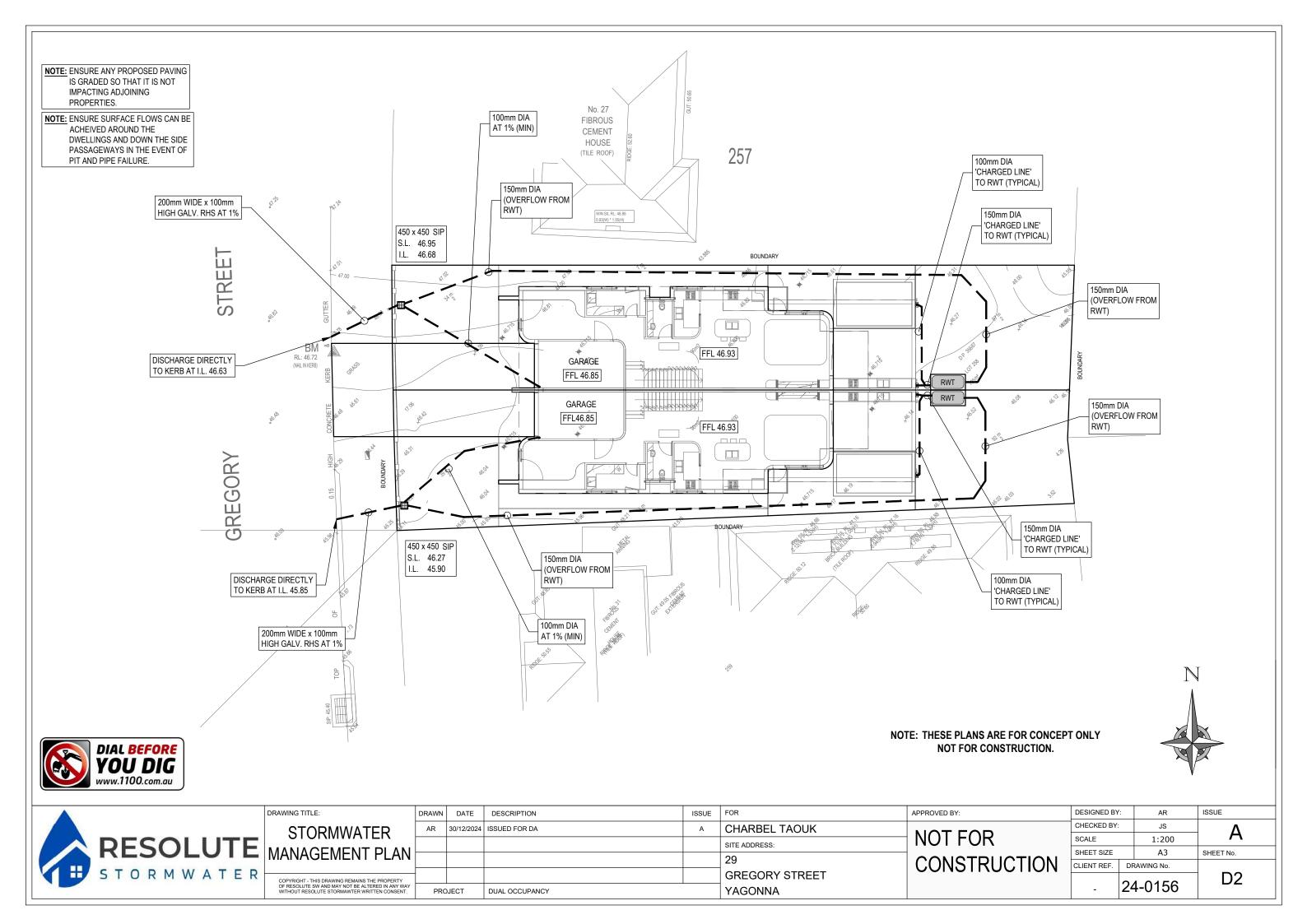
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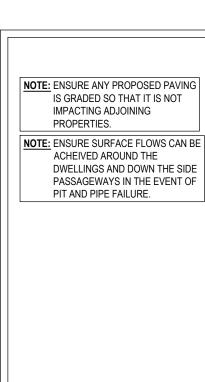
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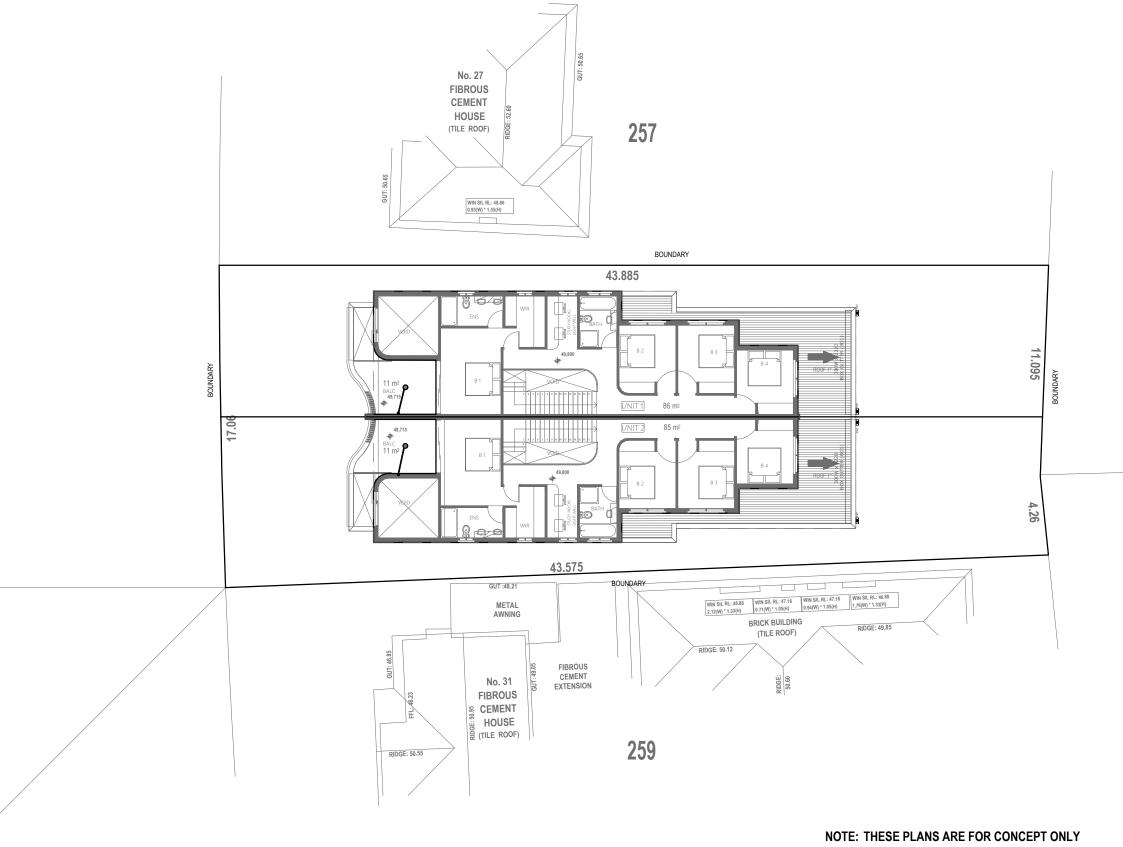
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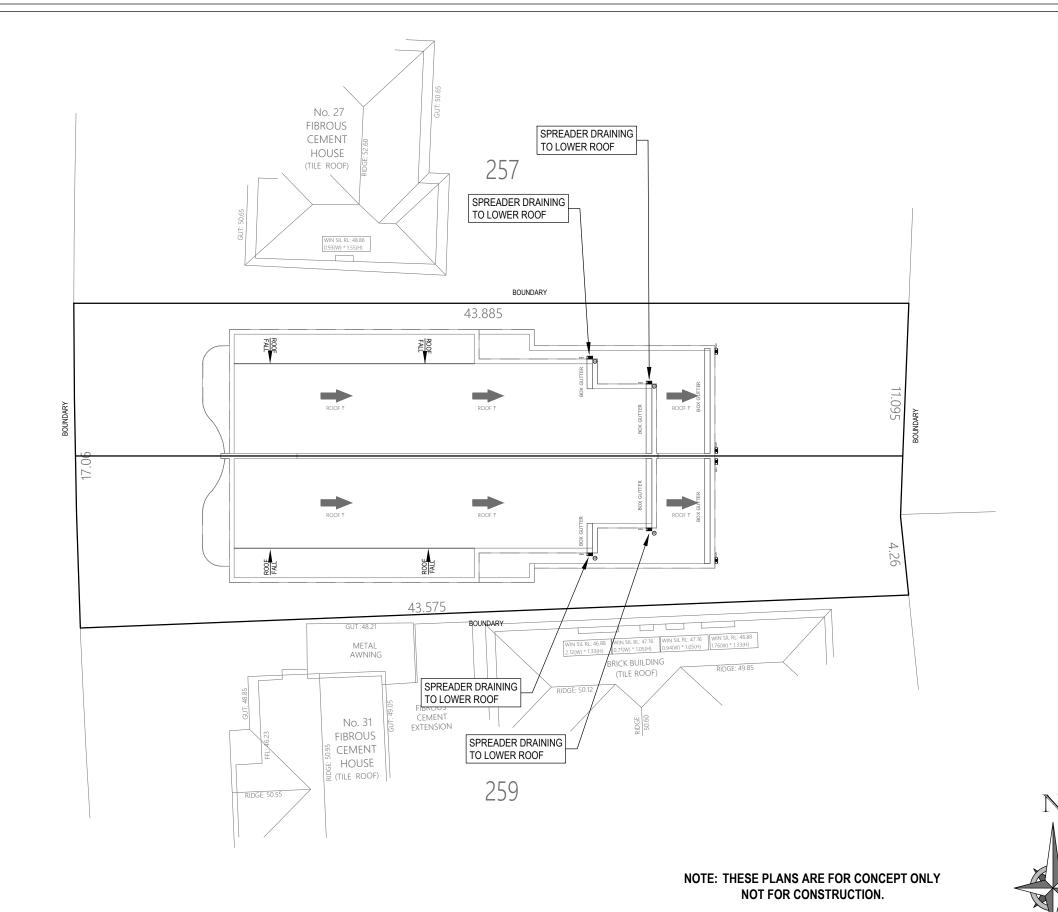
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NOTE: ENSURE ANY PROPOSED PAVING IS GRADED SO THAT IT IS NOT IMPACTING ADJOINING PROPERTIES.

NOTE: ENSURE SURFACE FLOWS CAN BE ACHEIVED AROUND THE DWELLINGS AND DOWN THE SIDE PASSAGEWAYS IN THE EVENT OF PIT AND PIPE FAILURE.







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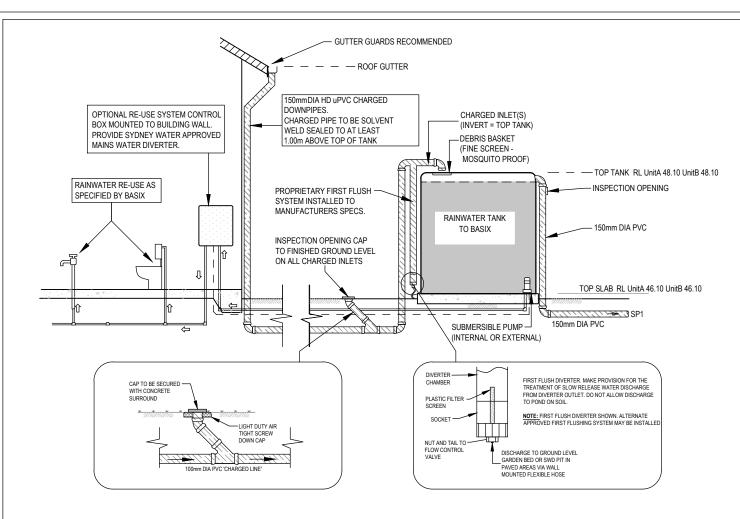
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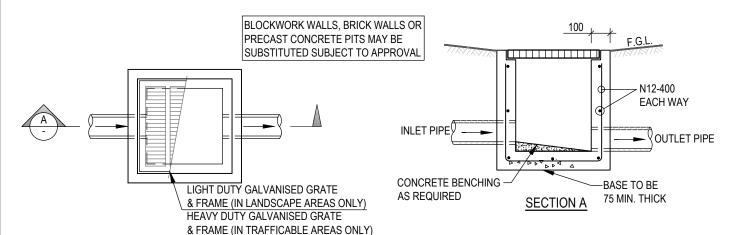
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RAINWATER RE-USE TANK - ABOVE GROUND

NTS



TYPICAL PIT (SIP)

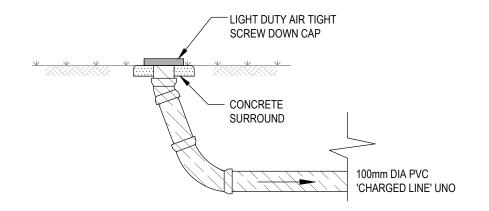
NOTE:
ALL PROPOSED SITE PITS ARE TO BE
CONSTRUCTED IN CONCRETE CAST IN SITU,
PLASTIC OR BRICK PITS ARE NOT ACCEPTABLE.
HOWEVER, 'COUNCIL MAY CONSIDER PRE-CAST
UNITS IF THE UNITS ARE PLACED ON A SOLID
BASE OF GRAVEL OR CONCRETE OF 75mm
THICK AND BACKFILL UP TO HALF THE DEPTH
OF THE PIT SURROUND WITH CONCRETE.



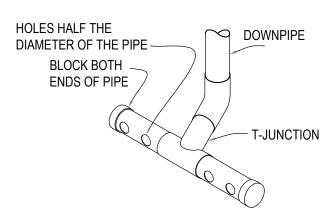
TYPICAL WARNING SIGN

NTS

EVERY EXTERNAL SUPPLY OUTLET FROM RAINWATER RE-USE TANK TO BE LABELED WITH METALLIC WARNING SIGN



INSPECTION RISER - IR



TYPICAL, DOWNPIPE SPREADER

- 1. HOLE POSITION TO AVOID JOINTS IN ROOFING
- 2. WHEN SPREADER IS LOCATED IN A CORNER, SPREADER TO BE L-SHAPED

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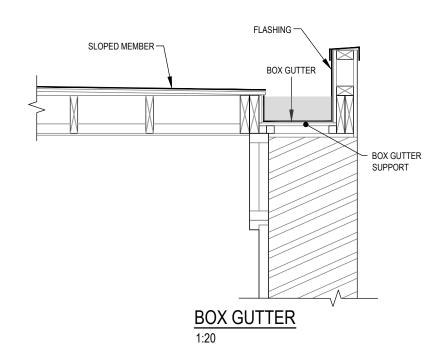
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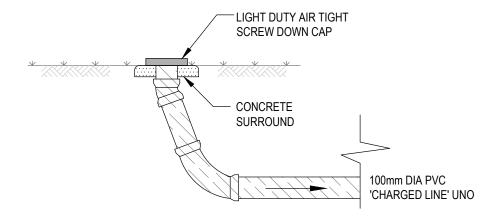
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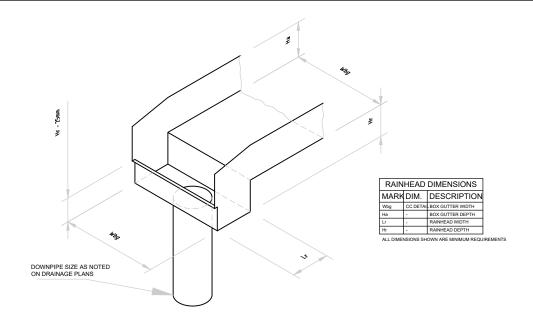
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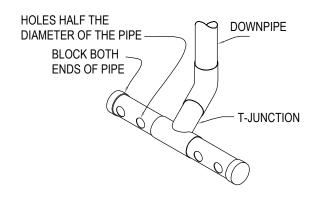
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RAINWATER HEAD DIMENSIONS

NOT TO SCALE

- . THE RAINHEAD SHALL BE FULLY SEALED TO THE BOX GUTTER AND THE FRONT OF THE RAINHEAD LEFT OPEN ABOVE THE OVERLOW WEIR
- 2. MINIMUM FALL ALONG BOX GUTTER SHALL BE 1:100



TYPICAL DOWNPIPE SPREADER

NOT TO SCALE

- 1. HOLE POSITION TO AVOID JOINTS IN ROOFING
- 2. WHEN SPREADER IS LOCATED IN A CORNER, SPREADER TO BE L-SHAPED



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