STORMWATER NOTES

1. CONFIRM LOCATION, SIZE, CONDITION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORK.
2. ALL WORK TO BE IN ACCORDANCE WITH LOCAL AUTHORITIES REQUIREMENTS, BCA AND RELEVANT AUSTRALIAN STANDARDS (IN PARTICULARLY AS 3500)
3. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER CONSULTANTS DOCUMENTS. ALL DISCREPANCIES SHALL BE REFERRED TO THE PROJECT MANAGER BEFORE PROCEEDING WITH THE WORK.
4. LOCATION OF ALL DOWNPIPES, PITS AND PIPEWORK IS DIGRAMMATIC ONLY FINAL LOCATION TO BE CO-ORDINATED DURING CONSTRUCTION CERTIFICATE DOCUMENTATION.
5. ALL MATERIALS USED IN THE WORK SHALL BE NEW AND OF THE BEST QUALITY AND TYPE AVAILABLE TO CONFORM WITH THE RELEVANT AUSTRALIAN STANDARDS AND BEAR THE REQUIRED STANDARDS MARK AND WATERMARK.
6. MAKE ALL APPLICATIONS TO LOCAL COUNCIL. PAY ALL FEES AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS AS REQUIRED BY THE AUTHORITIES.
7. PIPEWORK UP TO 225mm DIAMETER SHALL BE UPVC DRAINAGE WASTE GRADE WITH SOLVENT WELDED JOINTS.
8. PIPEWORK SHALL BE LAID AT 1:100 MINIMUM GRADE UNLESS NOTED OTHERWISE. PIPEWORK MAY BE LAID AT STEEPER GRADES AS REQUIRED TO MEET COVER REQUIREMENTS OR AS NOMINATED BY PIPEWORK INVERT LEVELS.
9. SUBSOIL PIPEWORK SHALL BE INSTALLED AS REQUIRED, INCLUDING BEHIND ALL RETAINING STRUCTURES, PLANTERS AND WHERE GROUND WATER IS ENCOUNTED. SHALL BE 90mm SLOTTED UPVC PIPE WRAPPED IN CLOTH SOCK AND SURROUNDED WITH 150mm THICKNESS OF 20mm DIAMETER BLUE METAL AND SURROUNDED IN GEOTEXTILE FABRIC.
10. ALL EXTERNAL LEVELS TO FALL AWAY FROM BUILDING. BUILDER TO ENSURE THRESHOLD REQUIREMENTS. OVERLAND FLOW PATHS TO BE MAINTAINED AROUND BUILDING TO PREVENT WATER INGRESS.
11. ALL LANDSCAPED AREAS LOCATED ABOVE CONCRETE SLABS TO BE EQUIPPED WITH DEDICATED OUTLET, WATERPROOFING MEMBRANE, DRAINAGE CELL AND GEOFABRIC.
12. SUBSOIL, UPLIFT PRESSURE, VERTICAL WALL DRAINAGE AND PIT CONSTRUCTION DETAILS TO BE CONFIRMED / CO-ORDINATED WITH STRUCTURAL AND GEOTECHNICAL ENGINEERS DURING CONSTRUCTION STAGE OF THE PROPOSED DEVELOPMENT.
13. ALL BALCONIES TO BE PROVIDED WITH SAFETY OVERFLOWS (FINAL LOCATION OF OVERFLOWS TO BE CONFIRMED BY ARCHITECT).

DRAWING SCHEDULE

DWG No	DESCRIPTION
STW-00	LEGEND, DETAILS & CALCULATIONS
STW-01	EROSION SEDIMENT CONTROL PLAN
STW-02	STORMWATER DRAINAGE- GROUND FLOOR

STORMWATER PIT SIZES

MINIMUM INTERNAL MEASUREMENTS:

DEPTH TO BASE OF CHAMBER	RECTANGULAR		CIRCULAR	LADDER / STEP IRON
	WIDTH	LENGTH		
LESS THAN 600	450	450	600	NO
601 TO 900	600	600	900	NO
901 TO 1200	600	900	1050	NO
GREATER THAN 1200	900	900	1050	YES

OSD & RAINWATER TANK CALCULATIONS

ALL IN ACCORDANCE WITH RANDWICK COUNCIL STORMWATER REQUIREMENTS.

OSD NOT REQUIRED WHERE ABSORPTION / INFILTRATION PROPOSED.

RAINWATER TANK MINIMUM EFFECTIVE VOLUME 10,000L WITH AN ASSOCIATED ROOF CATCHMENT OF 498mSQ AS PER BASIX REQUIREMENTS.

ABSORPTION TRENCH SIZING

GEOTECHNICAL REPORT DATED 08.11.2021 PREPARED BY STS GEOTECHNICS PTY LTD CONFIRMED INFILTRATION RATE OF 0.7L/SEC/M^2 AT 1M DEEP AND 0.4L/SEC/M^2 AT 2M DEEP. AN AVERAGE OF 0.55L/SEC/M^2 HAS BEEN ADOPTED FOR THE PROPOSED DESIGN.

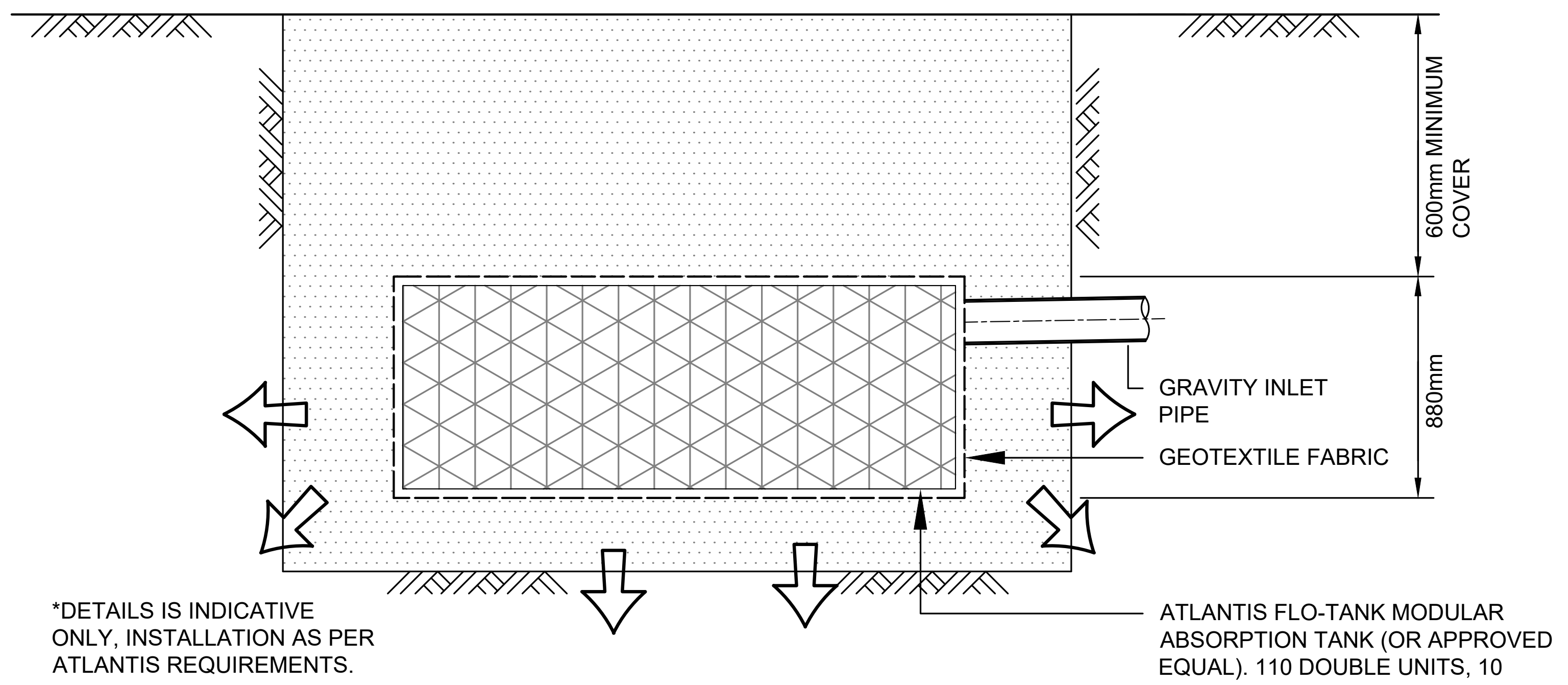
IMPERVIOUS CATCHMENT AREA:	801m^2
INFILTRATION RATE:	0.55 L/sec/m^2
AREA AVAILABLE FOR INFILTRATION:	28.5m^2
ABSORPTION RATE:	15.675 L/sec
ARI:	1:100 YEARS
STORAGE REQUIRED:	23.5m^3

LINETYPES

—— —— ——	STORMWATER DRAINAGE
—·—·—·—	SUBSOIL DRAINAGE
——e——	EXISTING SERVICE
—×—e—×—e—	EXISTING SERVICE TO BE REDUNDANT

SYMBOLS

—o	RISER
—›	DROPPER
—‖	CONTINUATION SYMBOL (CONTINUATION OF SERVICE NOT SHOWN)
—=	CAPPED OFF SERVICE
—▸—	DIRECTION OF FLOW IN PIPE
⬡	DIRECTION OF FLOW SERVICE SIZE
⊘RWO	RAINWATER OUTLET
⊘BRWO	BALCONY RAINWATER OUTLET
⊘PRWO	PLANTER RAINWATER OUTLET
⊘SRWO	SPOON DRAIN RAINWATER OUTLET
☐	STORMWATER PIT (WITH COVER)
▥	STORMWATER PIT (WITH GRATE)
▥▥	KERB INLET PIT
⥧	SAFETY OVERFLOW
ꟷo	SPREADER



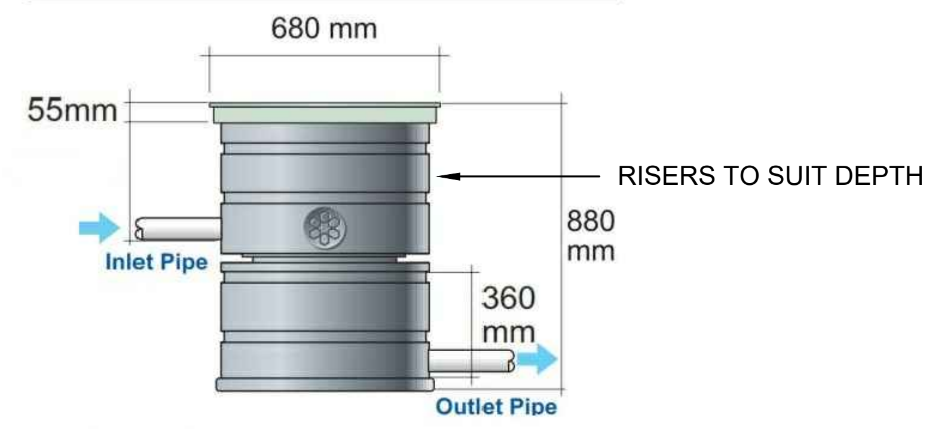
*DETAILS IS INDICATIVE ONLY, INSTALLATION AS PER ATLANTIS REQUIREMENTS.

ATLANTIS FLO-TANK MODULAR ABSORPTION TANK (OR APPROVED EQUAL). 110 DOUBLE UNITS, 10 ROWS OF 11 MODULES (PART NUMBER 70004, MEDIUM DUTY 5 PLATE)

DETAIL- ATLANTIS TANK DETAIL

NTS

Flo-Screen® LARGE



Part No: 60003 - Multiple pipe inlets

Suitable for flow situations of 20 L/sec.

Size: (H)880 x (W)680mm

Flo-Screen® Large Pipe Connections

The large Flo-Screen® filtration unit can accomodate multiple pipe inlets.

- 4 pipe inlets of 90mm
- 2 pipe inlets of 150mm
- 1 pipe inlet of 250mm

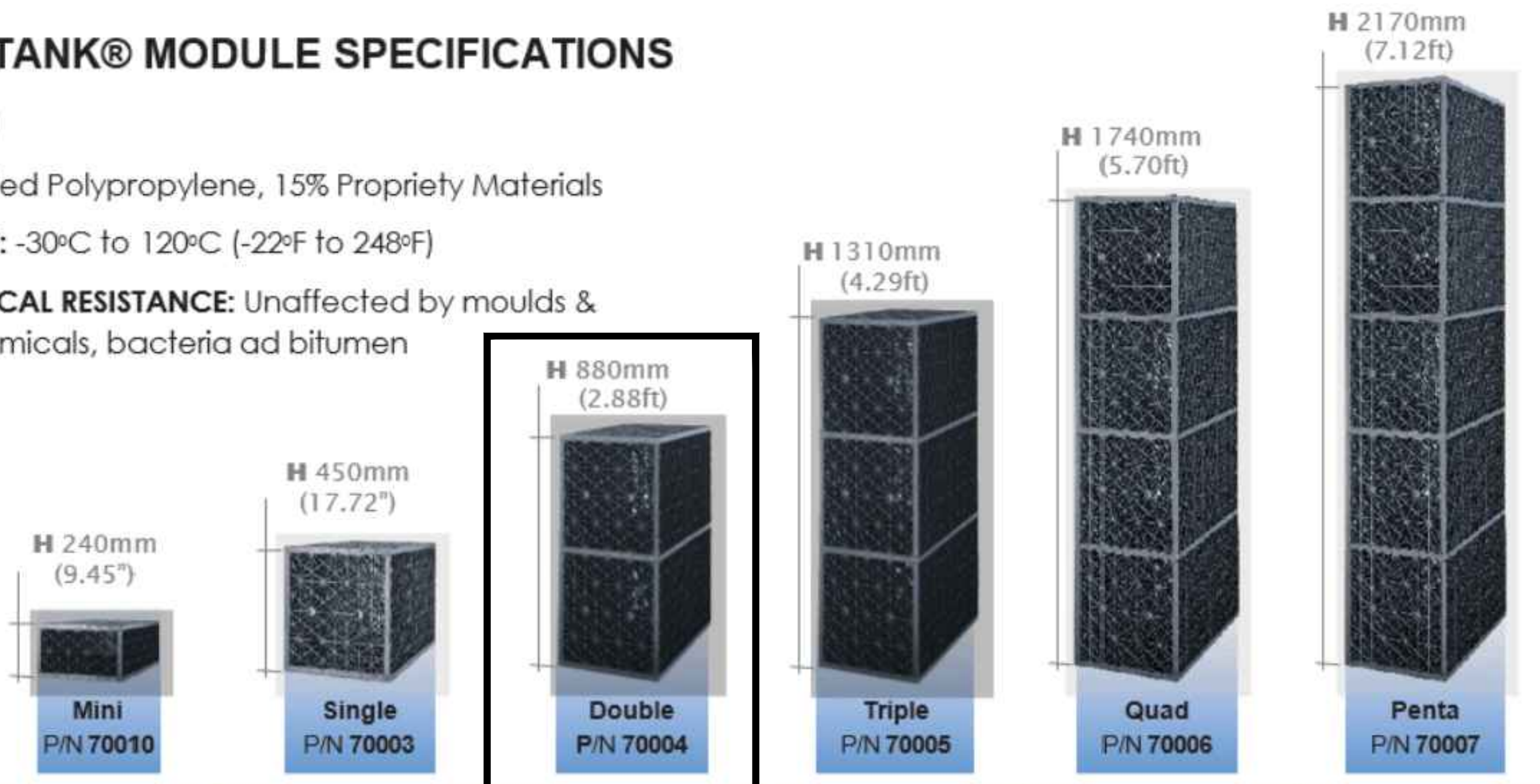
ATLANTIS FLO-TANK® MODULE SPECIFICATIONS

VOID RATIO: 95% Void

MATERIAL: 85% Recycled Polypropylene, 15% Propriety Materials

SERVICE TEMPERATURE: -30ºC to 120ºC (-22ºF to 248ºF)

CHEMICAL & BIOLOGICAL RESISTANCE: Unaffected by moulds & algae soil-boume chemicals, bacteria ad bitumen



	MINI	SINGLE	DOUBLE	TRIPLE	QUAD	PENTA
HEIGHT	240 mm	450 mm	880 mm	1310 mm	1740 mm	2170 mm
WIDTH	408 mm	408 mm	408 mm	408 mm	408 mm	408 mm
LENGTH	685 mm	685 mm	685 mm	685 mm	685 mm	685 mm
FOOTPRINT	0.2795 SQM	0.2795 SQM	0.2795 SQM	0.2795 SQM	0.2795 SQM	0.2795 SQM
WATER STORAGE	64.58 L	119.47 L	233.64 L	347.80 L	461.93 L	576.10 L

DA ISSUE

Revision	Amendment	Approved	Revision Date
A	ISSUED FOR REVIEW	PC	30.11.2021
B	ISSUED FOR DA	BP	03.12.2021

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Project
LAHC MATRAVILLE
289 - 293 BEAUCHAMP RD, MATRAVILLE NSW

Title
STORMWATER SERVICES
LEGEND, DETAILS & CALCULATIONS

Drawn	Designed	Approved
P.C	P.C	B.P

Project No.	Scale
E25308	NTS at A1.

Drawing No.	Revision
STW-00	B

Issued By	Checked By	Date
P.C	B.P	03.12.2021

Original sheet size A1 (841x594) Plot date: -

STORMWATER DA DRAWING ONLY

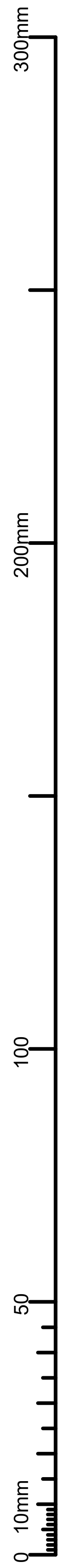
- NOT FOR CONSTRUCTION
- FINAL LOCATION OF ALL DOWNPIPES, PITS, RAINWATER OUTLETS AND SUBSOIL PIPES TO BE CONFIRMED

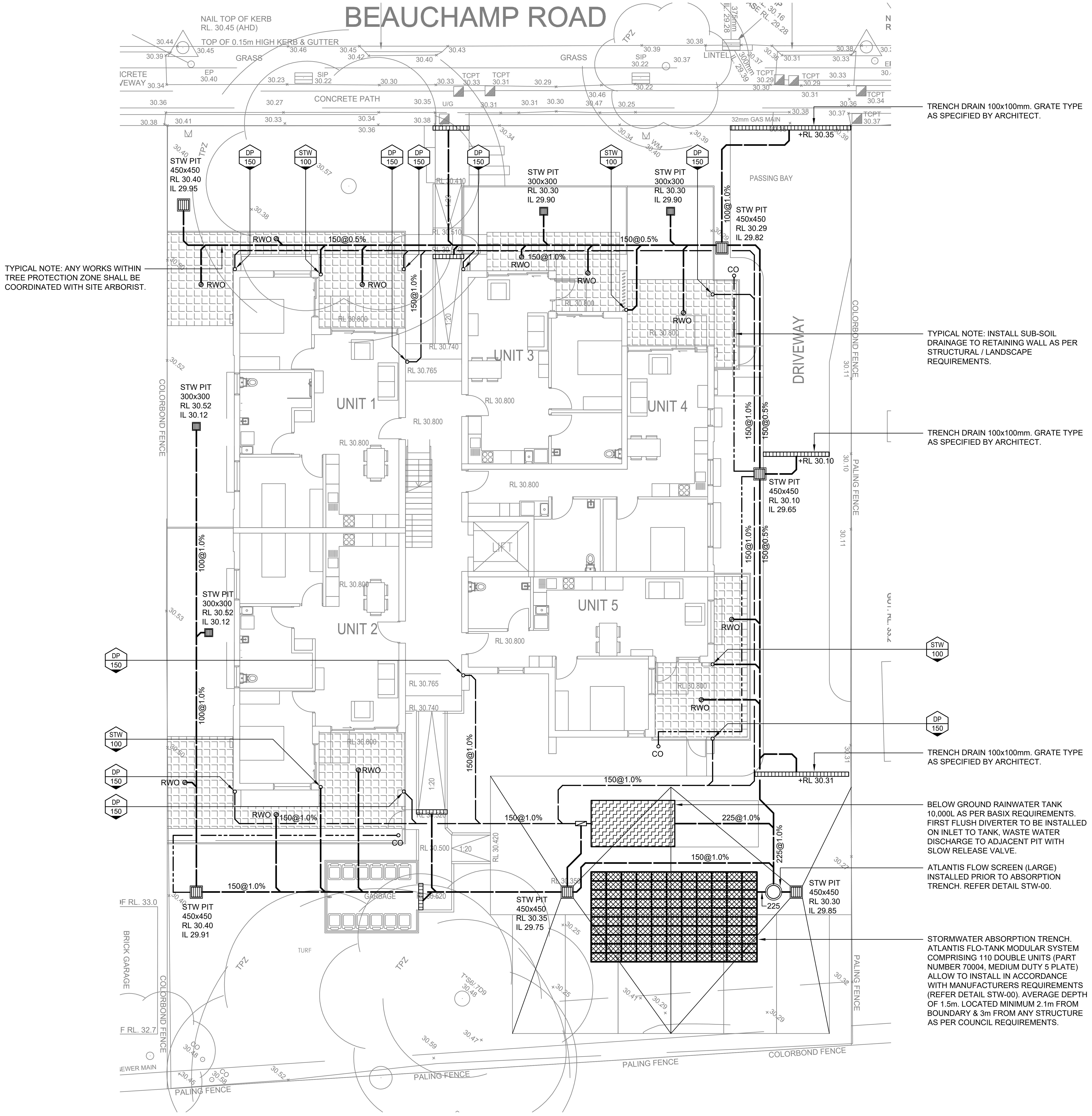
LANDSCAPING DRAINAGE

- ALL LANDSCAPED AREAS LOCATED ABOVE CONCRETE SLABS TO BE EQUIPPED WITH WATERPROOFING MEMBRANE, DRAINAGE CELL AND GEOFABRIC

GEOTECHNICAL & STRUCTURAL ADVICE

- CARPARK, SUBSOIL, UPLIFT PRESSURE, VERTICAL WALL DRAINAGE AND PIT CONSTRUCTION DETAILS TO BE CONFIRMED / CO-ORDINATED WITH STRUCTURAL AND GEOTECHNICAL ENGINEERS DURING CONSTRUCTION STAGE OF THE PROPOSED DEVELOPMENT





TRENCH DRAIN 100x100mm. GRATE TYPE AS SPECIFIED BY ARCHITECT.

TYPICAL NOTE: INSTALL SUB-SOIL DRAINAGE TO RETAINING WALL AS PER STRUCTURAL / LANDSCAPE REQUIREMENTS.

TRENCH DRAIN 100x100mm. GRATE TYPE AS SPECIFIED BY ARCHITECT.

TRENCH DRAIN 100x100mm. GRATE TYPE AS SPECIFIED BY ARCHITECT.

BELOW GROUND RAINWATER TANK 10,000L AS PER BASIX REQUIREMENTS. FIRST FLUSH DIVERTER TO BE INSTALLED ON INLET TO TANK, WASTE WATER DISCHARGE TO ADJACENT PIT WITH SLOW RELEASE VALVE.

ATLANTIS FLOW SCREEN (LARGE) INSTALLED PRIOR TO ABSORPTION TRENCH. REFER DETAIL STW-00.

STORMWATER ABSORPTION TRENCH. ATLANTIS FLO-TANK MODULAR SYSTEM COMPRISING 110 DOUBLE UNITS (PART NUMBER 70004, MEDIUM DUTY 5 PLATE) ALLOW TO INSTALL IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS (REFER DETAIL STW-00). AVERAGE DEPTH OF 1.5m. LOCATED MINIMUM 2.1m FROM BOUNDARY & 3m FROM ANY STRUCTURE AS PER COUNCIL REQUIREMENTS.

DA ISSUE

Revision	Amendment	Approved	Revision Date
A	ISSUED FOR REVIEW	PC	30.11.2021
B	ISSUED FOR DA	BP	03.12.2021
C	ISSUED FOR DA	BP	09.12.2021
D	ISSUED FOR DA	BP	09.02.2022

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LAHC MATRAVILLE
289 - 293 BEAUCHAMP RD, MATRAVILLE NSW

Title
STORMWATER SERVICES
GROUND FLOOR

Drawn	Designed	Approved
P.C	P.C	B.P

Project No.	Scale
E25308	1:100 at A1.

Drawing No.	Revision
STW-03	D

Issued By	Checked By	Date
P.C	B.P	09.02.2022

Original sheet size A1 (841x594)   Plot date: -

EROSION & SEDIMENT CONTROL NOTES

MINIMUM REQUIREMENTS

GENERAL
PROVIDE ON SITE CONTROLS THROUGHOUT THE ENTIRE WORKS TO ENSURE MINIMUM EROSION AND SEDIMENT LOSS.

ENSURE LEAST DISTURBANCE TO SITE.

AS EACH AREA IS COMPLETED, THAT AREA IS TO BE IMMEDIATELY/PROGRESSIVELY SEEDED AND FERTILISED. SILT FENCES, STRAW BALES OR OTHER CONTROLS NEED TO BE PROVIDED UNTIL THE SITE IS STABLE. SHOULD THIS APPROACH NOT BE PRACTICAL THE PROGRESSIVE REVEGETATION OF INDIVIDUAL AREAS WILL BE REQUIRED.

WHERE THERE IS GRADE ON OTHER AREAS OF THE SITE THAT MAY LEAD TO EROSION, FURTHER APPROPRIATE TREATMENT IS TO BE LOCATED TO CONTROL EROSION i.e. STRAW BALES

THE PROVISION AND MAINTENANCE OF (SEDIMENT) SILT FENCES WILL BE NECESSARY DURING THE CONSTRUCTION PHASE. WHEN INSTRUCTED BY THE COUNCIL PROGRESSIVELY REMOVE INDIVIDUAL SECTIONS OF SILT FENCES FOR CLEANING. CLEANING OF FENCES TO BE CARRIED OUT DURING PERIODS OF DRY WEATHER.

FILL AREAS
RUN-OFF AND SEDIMENT LOSS FROM THE AREAS OF FILL MUST BE CONTROLLED DURING AND AFTER CONSTRUCTION, BEFORE REVEGETATION TAKES PLACE USING SILT FENCES AND OR STRAW BALES AS INSTRUCTED BY THE PROJECT MANAGER/COUNCIL TO DIRECT WATER FROM THE DISTURBED AREA. OTHER MEASURES SHALL BE CARRIED OUT AS DIRECTED BY THE COUNCIL AND/OR AS SHOWN ON THE PLANS.

STOCK PILES
THE STOCK PILE LOCATION SHOWN ON THE PLAN IS PRELIMINARY. SHOULD THE BUILDER WISH TO RELOCATE THE STOCKPILE, HE SHALL OBTAIN APPROVAL FROM COUNCIL PRIOR TO COMMENCEMENT OF WORKS. THE BUILDER SHALL PRODUCE DRAWINGS INDICATING THE LOCATION OF STOCK PILES.

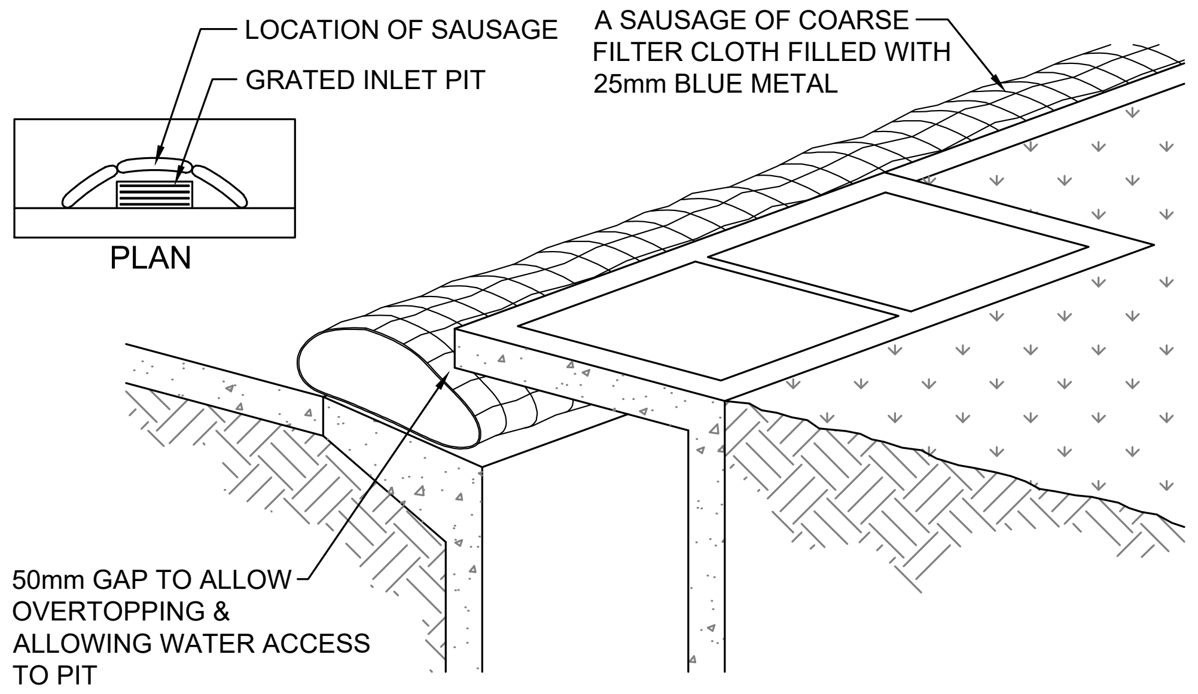
STOCK PILE SITES SHALL BE LOCATED AWAY FROM EXISTING OR PROPOSED DRAINAGE LINES OR AREAS LIKELY TO BE DISTURBED DURING CONSTRUCTION. STOCK PILE SITES SHALL NOT BE LOCATED WITHIN THE DRIP ZONE OF TREES.

STOCK PILE SITES MUST BE PROTECTED FROM EROSION AND SEDIMENT LOSS BY THE INSTALLATION OF SILT FENCES/STRAW BALES OR OTHER CONTROLS APPROVED BY COUNCIL.

WIND EROSION
TO MINIMISE WIND EROSION DURING CONSTRUCTION, THE GROUND SURFACE SHOULD BE KEPT DAMP (NOT WET). THE SURFACE SHOULD BE LEFT IN A ROUGH CLODDY CONDITION TO INCREASE ROUGHNESS AND SLOW SURFACE WIND SPEED.

LOCATION
LOCATION OF SEDIMENT CONTROL METHODS ie. SILT FENCES ARE SHOWN DIAGRAMMATICALLY ONLY ON DRAWING. FINAL LOCATION, EXTENT AND TYPE OF SEDIMENT CONTROL METHODS SHALL BE TO THE SATISFACTION OF COUNCIL.

THE CONTRACTOR, UNDER SECTION 16 OF THE CLEAN WATERS ACT, IS LIABLE FOR THE DEPOSITION OF ANY CONTAMINANTS DEPOSITED ON ROADWAYS AFTER LEAVING THE CONSTRUCTION SITE.



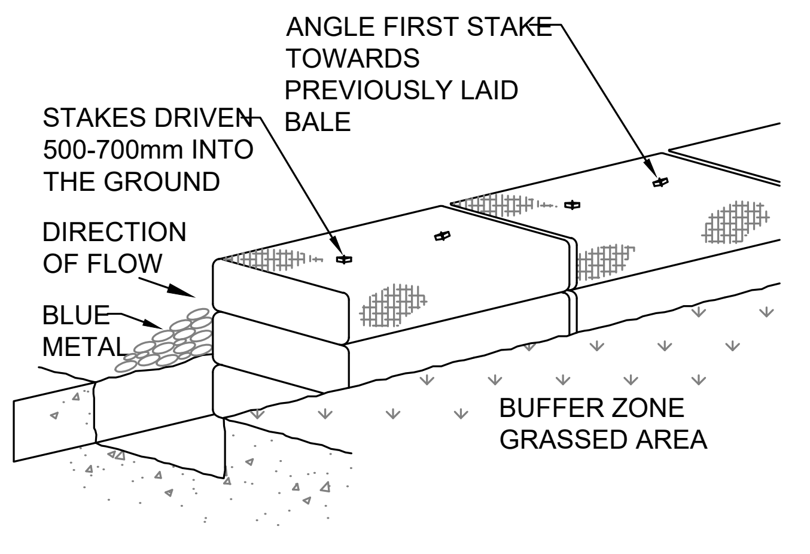
DETAIL - BLUE METAL GROYNE (SAUSAGE)

BLUE METAL GROYNE (SAUSAGE)

DESCRIPTION
THE GROYNE COMPRISES A SAUSAGE OF SHADE CLOTH OR OTHER PREVIOUS FABRIC, SOME 200mm DIAMETER, FILLED WITH 25mm BLUE METAL AND CLOSED BOTH ENDS.

INSTALLATION
THE SAUSAGE IS LAID ON THE GROUND ON THE CONTOUR SIMILAR TO A SILT FENCE. GENERALLY THE SAUSAGE SHOULD BE LAID TWO HIGH TO OBTAIN ENOUGH FILTER AREA.

LOCATION
THE GROYNES SHOULD BE LOCATED ACROSS THE ENTRY DRIVEWAY TO THE SITE AND AROUND THE NEAREST DOWNSTREAM KERB ENTRY PITS.



DETAIL - STRAW BALE BARRIERS

STRAW BALE BARRIERS

DESCRIPTION
A TEMPORARY BARRIER OF STRAW BALES PLACED AROUND THE PERIMETER OF A DISTURBED AREA.

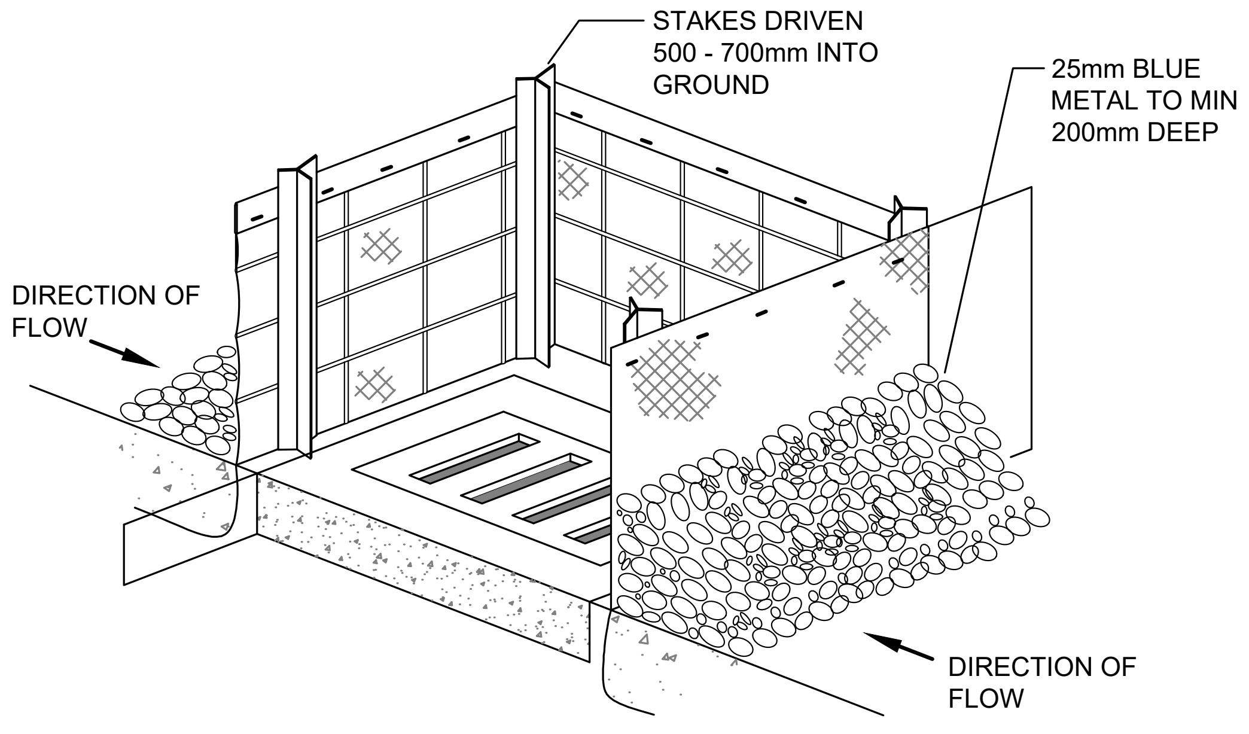
USAGE
STRAW BALE BARRIERS ARE USED TO DESILT CONTAMINATED WATER

INSTALLATION
STRAW BALES ARE ONLY EFFECTIVE ON SITES OF LESS THAN HALF A HECTARE. THE BALES SHOULD BE PLACED LENGTHWISE IN 100mm DEEP TRENCHES WITH THEIR BINDING ROPE HORIZONTAL TO THE GROUND.

THE BALES SHOULD BE CONNECTED AND ANCHORED TO THE GROUND BY DRIVING TWO STAR PICKETS OR POSTS THROUGH EACH BALE. THE FIRST STAKE MUST BE DRIVEN TOWARDS THE ADJOINING BALE AT A 45° ANGLE TO FORCE THE BALES TOGETHER.

MAINTENANCE
AFTER RAINFALL STRAW BALE BARRIERS SHOULD BE INSPECTED AND SEDIMENT REMOVED. DAMAGED BALES SHOULD BE REPAIRED OR REPLACED BALES HAVE A LIFE EXPECTANCY OF THREE TO SIX MONTHS.

NOTE
THE LOCATION OF STRAW BALES ON THE ABOVE SITE PLAN IS DIAGRAMMATIC ONLY. THE REQUIREMENT FOR THE USAGE OF STRAW BALES IS TO BE AS A SUPPLEMENTARY MEASURE TO ASSIST THE SILT FENCES. FINAL LOCATIONS AND EXTENT OF STRAW BALES TO BE DETERMINED BY THE COUNCIL.



DETAIL: STORM INLET SEDIMENT TRAP

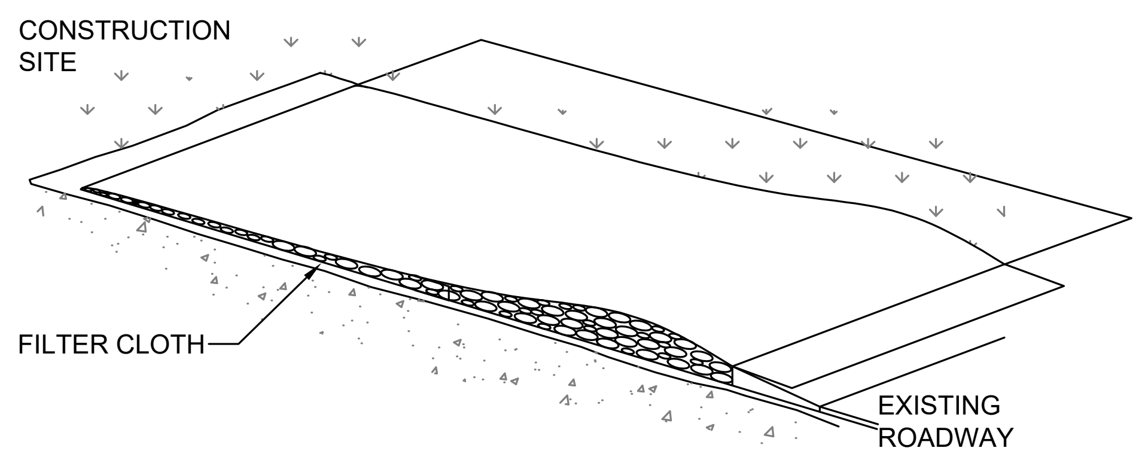
STORM INLET SEDIMENT TRAP

DESCRIPTION
THESE ARE TEMPORARY DE-SILTING STRUCTURES.

USAGE
SUCH SEDIMENT TRAPS ARE USED AT STORMWATER INLETS AND OUTLETS, CULVERT ENTRIES AND POINTS WHERE RUN-OFF FROM DISTURBED CATCHMENTS SUCH AS CONSTRUCTION SITES IS DISCHARGED.

GENERAL REQUIREMENTS
SEDIMENT TRAPS ARE BUILT FROM STRAW BALES, WASHED GRAVEL, GABIONS OR SANDBAGS (OR SARLON TYPE MATERIALS) FILLED WITH BLUE METAL. THE CHOICE OF MATERIAL OR TYPE OF STRUCTURE DEPENDS ON THE SIZE OF THE DRAINAGE AREA AND THE PHYSICAL STRUCTURE SURROUNDING THE SEDIMENT TRAP. CONSTRUCTION MATERIALS TO BE CONFIRMED BY COUNCIL.

MAINTENANCE
SEDIMENT TRAPS SHOULD BE REGULARLY MAINTAINED AND RESTORED TO THEIR ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO HALF OF THE DESIGNED CAPACITY. THE OUTLET SHOULD BE CONSTRUCTED AND MAINTAINED TO ENSURE EROSION DOES NOT OCCUR. MAINTENANCE PROGRAM SHALL BE AS REQUESTED BY COUNCIL.



DETAIL - SHAKE DOWN AREA/ACCESS STABILISATION

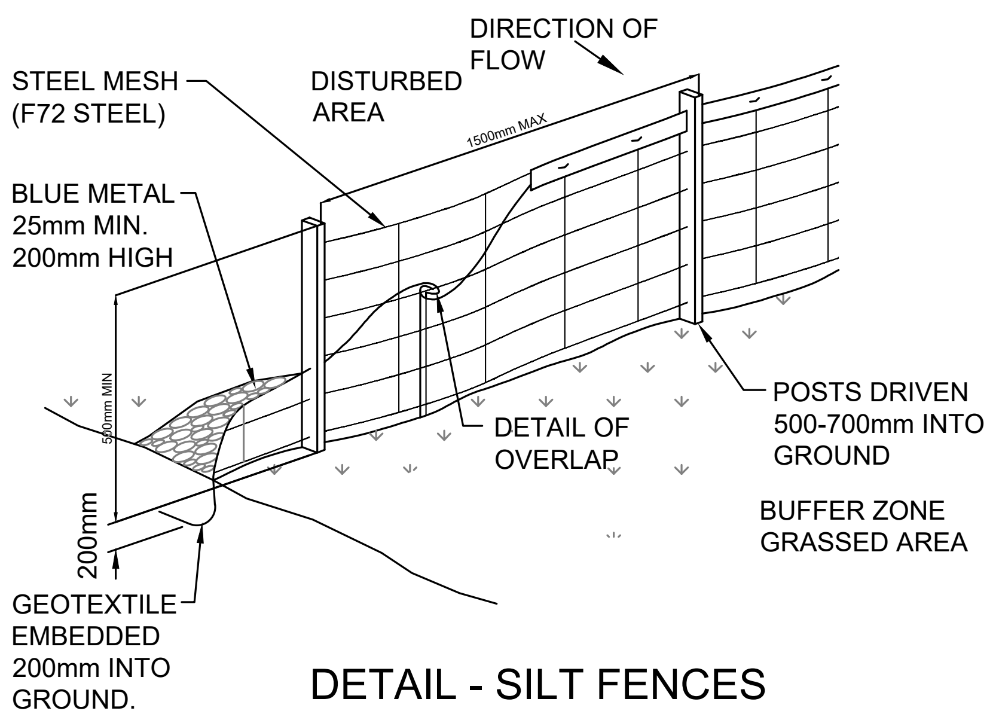
SHAKE DOWN AREAS/ACCESS STABILISATION

DESCRIPTION
STABILISED ACCESS SHALL BE A BED OF AGGREGATE ON FILTER CLOTH. GRADE THE ENTRANCE SO THAT IT IS AT LEAST 15 METRES LONG WITH A MINIMUM WIDTH OF 3 METRES FOR A ONE WAY ENTRANCE AND 6 METRES FOR A TWO WAY ENTRANCE. PLACE FILTER CLOTH OVER THE ENTIRE AREA AND COVER IT WITH 150mm MINIMUM THICKNESS OF 50mm AGGREGATE RIVER GRAVEL OR A RECYCLED OR RECLAIMED CONCRETE EQUIVALENT.

USAGE
SUCH STRUCTURES SHALL BE USED AT ALL POINTS WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE THE SITE AND EXISTING ROADWAYS.

TREATMENT/MAINTENANCE

SURFACE WATER FLOWING TO THE ENTRANCE MUST BE PIPED UNDER THE ENTRANCE, OR A BERM CONSTRUCTED TO DIRECT SURFACE FLOW AWAY FROM THE ROAD.
ALL DEPOSITS ARE TO BE REGULARLY CLEARED FROM SITE ACCESS.
THE DRAWBAR, TAILGATE ETC OF ANY VEHICLE INVOLVED IN THE TRANSPORT OF GRAVEL ETC TO A CONSTRUCTION SITE MUST BE MANUALLY CLEANED OF MATERIAL BEFORE THE VEHICLE LEAVES THE SITE.
SHOULD THE MATERIAL BE DEPOSITED ON THE ROADWAY ETC, SUCH MATERIAL SHALL BE SWEPT AND REMOVED FROM THE ROADWAY.



DETAIL - SILT FENCES

SILT FENCES

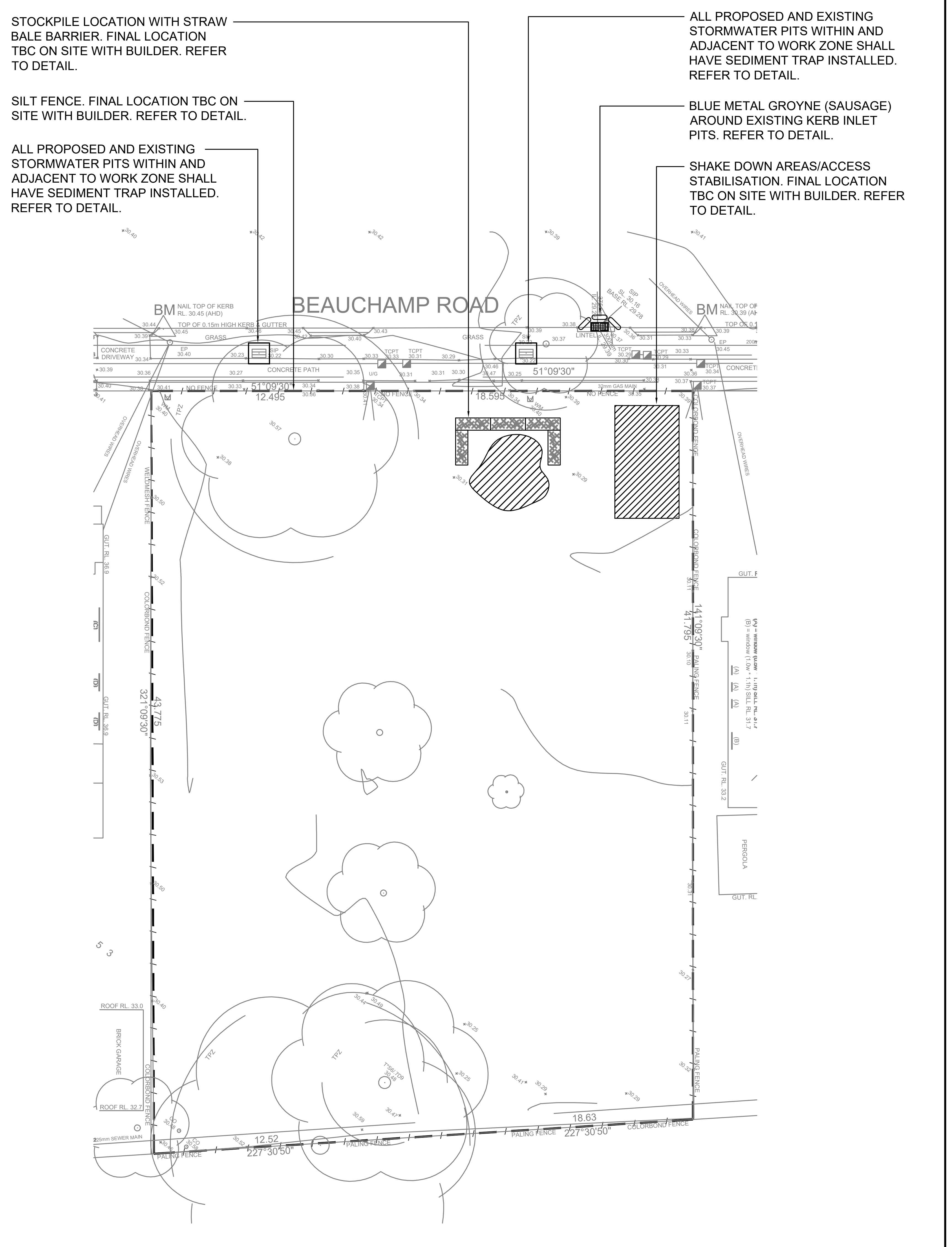
DESCRIPTION
SILT FENCES ARE TEMPORARY BARRIERS MADE FROM A COMBINATION OF FILTER CLOTH AND BLUE METAL

USAGE
SILT FENCES FILTER RUN-OFF LEAVING THE SITE TRAPPING THE SEDIMENT AND ALLOWING CLEAN FILTERED WATER TO PASS. SILT FENCES ARE TO BE PLACED ON THE CONTOUR OR SLIGHTLY CONVEX TO THE CONTOUR. IF ON THE CONTOUR, EACH END OF THE FENCE SHOULD BE TURNED UP TO CREATE A 'STILLING POND' UP SLOPE OF THE FENCE. WHERE POSSIBLE, A SILT FENCE SYSTEM SHOULD BE NO LONGER THAN ABOUT 20 METRES. THEY SHOULD NOT INTERCEPT LARGE CONCENTRATED OR CHANNELISED FLOWS.

INSTALLATION
THE AREA BELOW A SILT FENCE MUST BE UNDISTURBED ON STABLISED GROUND.

MAINTENANCE
SILT FENCES REQUIRE REGULAR MAINTENANCE. TRAPPED SEDIMENTS SHOULD BE REMOVED, PICKETS STRAIGHTENED, FILTER CLOTH RESECURED AND TIGHTENED AND BLUE METAL REPLACED WHEN HEAVILY CONTAMINATED WITH SILT.

NOTE
FILTER FABRIC SHALL BE EQUIVALENT TO 'GEOLAB' AND BE CAPABLE OF INTERCEPTING SILT PARTICLES DOWN TO 2 MICRON IN SIZE.



EROSION SEDIMENT CONTROL PLAN
SCALE 1:200

DA ISSUE

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A	ISSUED FOR REVIEW	PC	30.11.2021
B	ISSUED FOR DA	BP	03.12.2021

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Project LAHC MATRAVILLE 289 - 293 BEAUCHAMP RD, MATRAVILLE NSW	**Drawn** P.C	**Designed** P.C	**Approved** B.P
	Project No. E25308		**Scale** 1:200 @ A1.
Title STORMWATER SERVICES EROSION SEDIMENT CONTROL PLAN	**Drawing No.** STW-01		**Revision** B
	Issued By P.C	**Checked By** B.P	**Date** 03.12.2021

Original sheet size A1 (841x594)   Plot date: -