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| Issue | Description                           | Date     | Drawn | Approved |
|-------|---------------------------------------|----------|-------|----------|
| G     | RE-ISSUED FOR DEVELOPMENT APPLICATION | 19.04.22 | SJ    | BK       |
| F     | RE-ISSUED FOR DEVELOPMENT APPLICATION | 14.04.22 | SJ    | BK       |
| E     | RE-ISSUED FOR DEVELOPMENT APPLICATION | 13.04.22 | SJ    | BK       |
| D     | RE-ISSUED FOR REVIEW                  | 13.04.22 | SJ    | BK       |

Client  
**JO**

Planner  
**MINTO PLANNING**

ACOR CONSULTANTS  
ENGINEERS | MANAGERS | INFRASTRUCTURE PLANNERS | DEVELOPMENT CONSULTANTS

**ACOR Consultants (CC) Pty Ltd**  
Platinum Building, Suite 2.01, 4 Ilya Avenue  
ERINA NSW 2250, Australia  
T +61 2 4324 3499

Project  
**PROPOSED SUBDIVISION**

No.'s 49A & 51  
NORFOLK ROAD  
EPPING

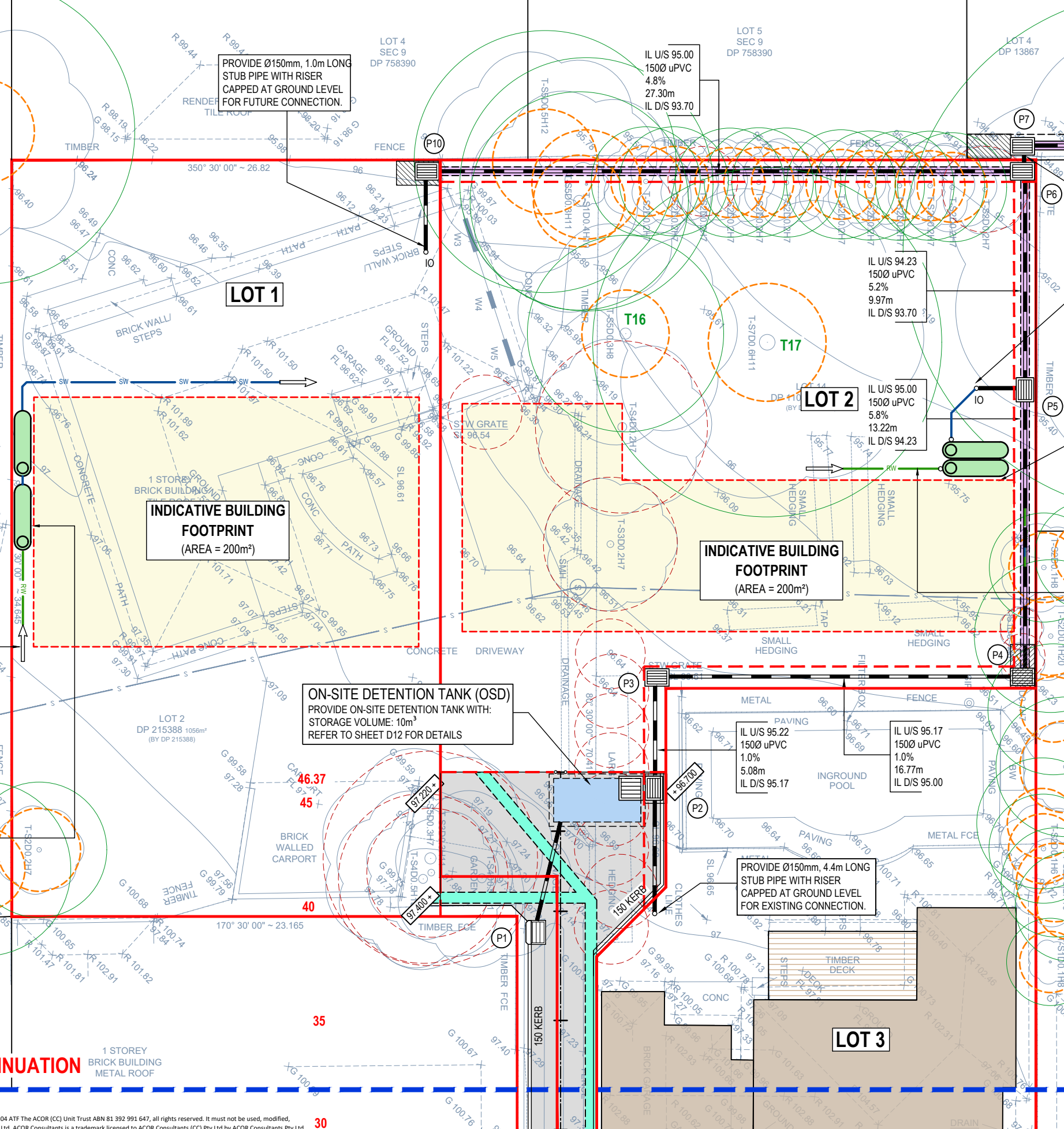
| Drawing Title                         |             |          |    |            |
|---------------------------------------|-------------|----------|----|------------|
| GENERAL ARRANGEMENT PLAN SHEET 1 OF 3 |             |          |    |            |
| Drawn                                 | Date        | Scale    | A1 | O.A. Check |
| CL                                    | NOV 2021    | AS NOTED | -  | -          |
| Designed                              | Project No. | Dwg. No. |    |            |
| BK                                    | CC210384    | D4       | G  |            |

### LEGEND

- DENOTES EXTENT OF PROPOSED DRIVEWAY STANDARD CONSTRUCTION
- DENOTES EXTENT OF PROPOSED DRIVEWAY TREE PROTECTION ZONE
- DENOTES EXTENT OF EXISTING BUILDINGS TO BE RETAINED
- DENOTES OUTLINE OF INDICATIVE BUILDING FOOTPRINT
- PILOT TRENCH REQUIRED UPSTREAM OF THE WORK TO COMMENCE THE HORIZONTAL DIRECTIONAL DRILLING. ALLOW FOR PILOT TRENCH 2.0m LONG x 1.2m WIDE x 1.2m DEEP
- HORIZONTAL DIRECTIONAL DRILLING FOR PROPOSED STORMWATER PIPES. 800mm MIN COVER FROM EXISTING SURFACE LEVEL
- DENOTES TREE TO BE REMOVED
- DENOTES TREE PROTECTION ZONE ON EXISTING TREES TO REMAIN. NOTE: PROVIDE APPROPRIATE PROTECTION MEASURES DURING CONSTRUCTION IN ACCORDANCE WITH ARBORISTS REQUIREMENTS
- DENOTES STRUCTURAL ROOT ZONES ON EXISTING TREES TO REMAIN
- SERVICES CONNECTION TRENCH. REFER DETAIL ON SHEET D11

**FULLY SEALED ROOF DRAINAGE SYSTEM**  
 SHOWN THUS: RW RW  
 DRAINAGE SYSTEM TO BE FULLY SEALED FROM ROOF GUTTER LEVEL TO TOP OF RAINWATER TANK. SEAL ALL PIPEWORK FROM RE-USE TANK TO EAVE LINE USING SOLVENT WELDED JOINTS. RAINWATER SYSTEM SHALL COLLECT ROOF WATER ONLY. NO ADDITIONAL PITS FOR COLLECTION OF SURFACE WATER WILL BE PERMITTED TO CONNECT INTO THE ROOF WATER SYSTEM. PROVIDE FOLLOWING STANDARD FITTINGS TO CONNECTED DOWNPIPES: LEAF/MOSQUITO SCREEN HEADS AND FIRST FLUSH DIVERTER, TYP.

**ON-SITE DETENTION/RAINWATER RE-USE TANK**  
 PROVIDE 2 x 4,000 litre ABOVE GROUND TANKS FOR OSD/RE-USE IN ACCORDANCE WITH THE REQUIREMENTS OF THE BASIX CERTIFICATE & COUNCIL REQUIREMENTS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION, AS/NZS 3500 AND COUNCIL'S GUIDELINES. REFER TO DETAILS AT CC STAGE DOCUMENTATION. FINAL LOCATION OF TANK TO BE SITE CONFIRMED.  
 OSD = 5,000 litres (DISCHARGE RATE = 8 l/s)  
 RE-USE = 3,000 litres (SUBJECT TO BASIX)  
 PROVIDE TANK RE-USE PUMP CONTROL UNIT TO MANUFACTURERS SPECIFICATION. PROVIDE FIRST FLUSH DEVICE OR EQUIVALENT PRIOR TO DISCHARGING TO TANK.



| PIT SCHEDULE |                 |           |           |            |
|--------------|-----------------|-----------|-----------|------------|
| PIT No.      | TYPE            | SIZE      | TOP GRATE | PIT INVERT |
| P1           | KERB INLET PIT  | 0.9 EKI   | 97.20     | 96.50      |
| P2           | HD GRATED INLET | 900 X 600 | 96.70     | 95.22      |
| P3           | LD GRATED INLET | 900 X 600 | 96.61     | 95.17      |
| P4           | LD GRATED INLET | 900 X 600 | 96.30     | 95.00      |
| P5           | LD GRATED INLET | 900 X 600 | 95.30     | 94.23      |
| P6           | LD GRATED INLET | 900 X 600 | 94.90     | 93.70      |
| P7           | LD GRATED INLET | 900 X 600 | 94.90     | 93.68      |
| P8           | LD SOLID COVER  | 900 X 600 | 93.56     | 92.55      |
| P9           | LD GRATED INLET | 450 X 450 | 92.37     | 92.13      |
| P10          | LD GRATED INLET | 900 X 600 | 96.00     | 95.00      |

PROPOSED PIT SURFACE LEVELS AND INVERTS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION

REFER TO SHEET D4 FOR CONTINUATION

REFER TO SHEET D6 FOR CONTINUATION

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| D     | RE-ISSUED FOR REVIEW                  | 13.04.22 | SJ    | BK       |  |
| Issue | Description                           | Date     | Drawn | Approved |  |

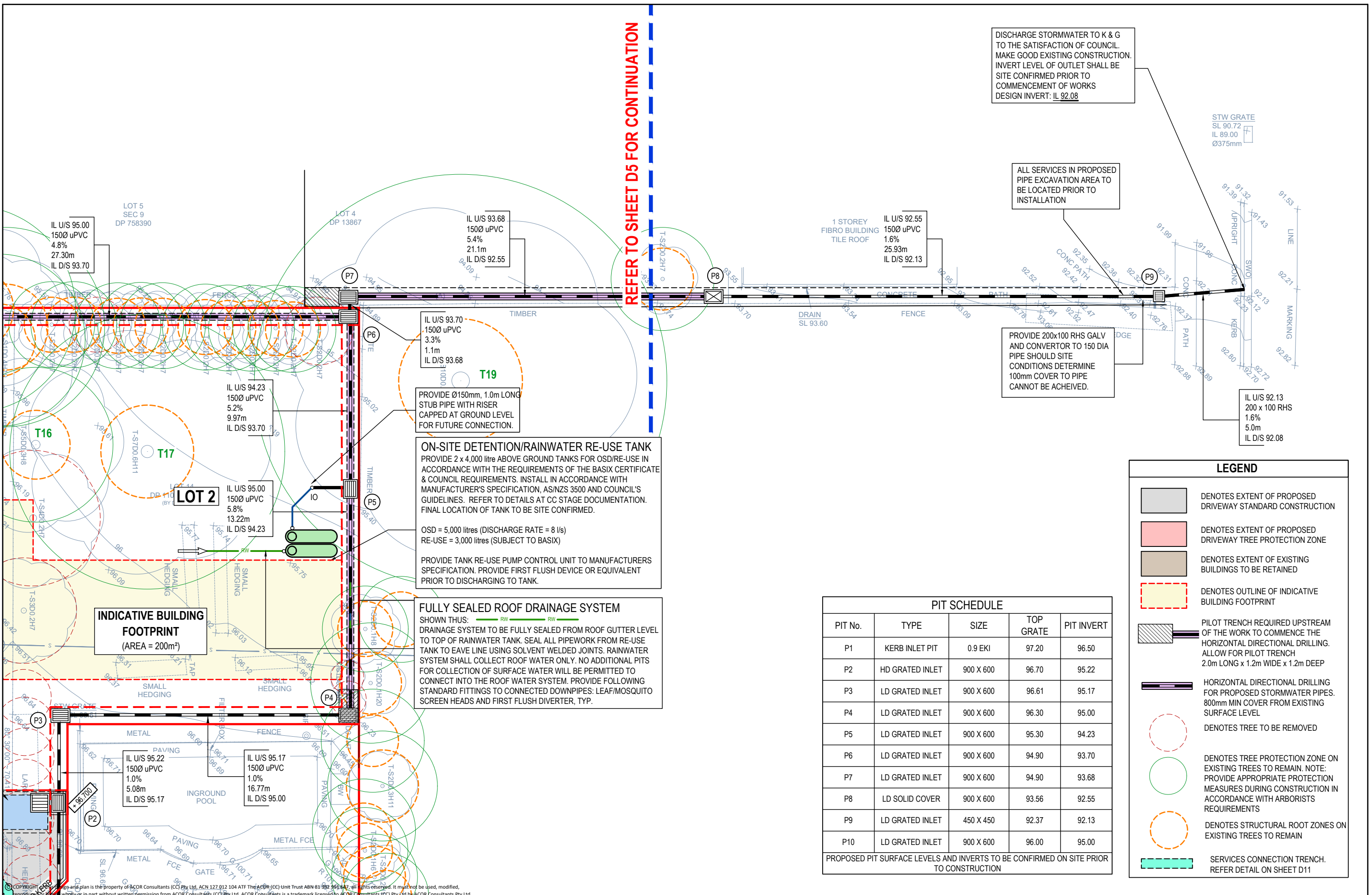
Client: **JO**  
 Planner: **MINTO PLANNING**

ACOR Consultants (CC) Pty Ltd  
 Platinum Building, Suite 2.01, 4 Ilya Avenue  
 ERINA NSW 2250, Australia  
 T +61 2 4324 3499

ENGINEERS | MANAGERS | INFRASTRUCTURE PLANNERS | DEVELOPMENT CONSULTANTS

Project: **PROPOSED SUBDIVISION**  
 No.'s 49A & 51 NORFOLK ROAD EPPING

|   |             |          |    |            |      |
|---|-------------|----------|----|------------|------|
| Drawing Title: <b>GENERAL ARRANGEMENT PLAN SHEET 2 OF 3</b> |             |          |    |            |      |
| Drawn   | Date        | Scale    | A1 | O.A. Check | Date |
| CL  | NOV 2021    | AS NOTED |    |            |      |
| Designed  | Project No. | Dwg. No. |    |            |      |
| BK  | CC210384    | D5       | G  |            |      |



DISCHARGE STORMWATER TO K & G TO THE SATISFACTION OF COUNCIL. MAKE GOOD EXISTING CONSTRUCTION. INVERT LEVEL OF OUTLET SHALL BE SITE CONFIRMED PRIOR TO COMMENCEMENT OF WORKS DESIGN INVERT: IL 92.08

STW GRATE  
SL 90.72  
IL 89.00  
Ø375mm

ALL SERVICES IN PROPOSED PIPE EXCAVATION AREA TO BE LOCATED PRIOR TO INSTALLATION

1 STOREY FIBRO BUILDING TILE ROOF  
IL U/S 92.55  
150Ø uPVC  
1.6%  
25.93m  
IL D/S 92.13

PROVIDE 200x100 RHS GALV AND CONVERTOR TO 150 DIA PIPE SHOULD SITE CONDITIONS DETERMINE 100mm COVER TO PIPE CANNOT BE ACHIEVED.

IL U/S 92.13  
200 x 100 RHS  
1.6%  
5.0m  
IL D/S 92.08

REFER TO SHEET D5 FOR CONTINUATION

**ON-SITE DETENTION/RAINWATER RE-USE TANK**  
PROVIDE 2 x 4,000 litre ABOVE GROUND TANKS FOR OSD/RE-USE IN ACCORDANCE WITH THE REQUIREMENTS OF THE BASIX CERTIFICATE & COUNCIL REQUIREMENTS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION, AS/NZS 3500 AND COUNCIL'S GUIDELINES. REFER TO DETAILS AT CC STAGE DOCUMENTATION. FINAL LOCATION OF TANK TO BE SITE CONFIRMED.

OSD = 5,000 litres (DISCHARGE RATE = 8 l/s)  
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PROVIDE TANK RE-USE PUMP CONTROL UNIT TO MANUFACTURERS SPECIFICATION. PROVIDE FIRST FLUSH DEVICE OR EQUIVALENT PRIOR TO DISCHARGING TO TANK.

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SHOWN THUS:   
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**LEGEND**

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- DENOTES EXTENT OF PROPOSED DRIVEWAY TREE PROTECTION ZONE
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- SERVICES CONNECTION TRENCH. REFER DETAIL ON SHEET D11

**PIT SCHEDULE**

| PIT No. | TYPE            | SIZE      | TOP GRATE | PIT INVERT |
|---------|-----------------|-----------|-----------|------------|
| P1      | KERB INLET PIT  | 0.9 EK1   | 97.20     | 96.50      |
| P2      | HD GRATED INLET | 900 X 600 | 96.70     | 95.22      |
| P3      | LD GRATED INLET | 900 X 600 | 96.61     | 95.17      |
| P4      | LD GRATED INLET | 900 X 600 | 96.30     | 95.00      |
| P5      | LD GRATED INLET | 900 X 600 | 95.30     | 94.23      |
| P6      | LD GRATED INLET | 900 X 600 | 94.90     | 93.70      |
| P7      | LD GRATED INLET | 900 X 600 | 94.90     | 93.68      |
| P8      | LD SOLID COVER  | 900 X 600 | 93.56     | 92.55      |
| P9      | LD GRATED INLET | 450 X 450 | 92.37     | 92.13      |
| P10     | LD GRATED INLET | 900 X 600 | 96.00     | 95.00      |

PROPOSED PIT SURFACE LEVELS AND INVERTS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION

**INDICATIVE BUILDING FOOTPRINT**  
(AREA = 200m<sup>2</sup>)

| Issue | Description                           | Date     | Drawn | Approved |
|-------|---------------------------------------|----------|-------|----------|
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| D     | RE-ISSUED FOR REVIEW                  | 13.04.22 | SJ    | BK       |

Client: **JO**  
Planner: **MINTO PLANNING**

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ENGINEERS | MANAGERS | INFRASTRUCTURE PLANNERS | DEVELOPMENT CONSULTANTS

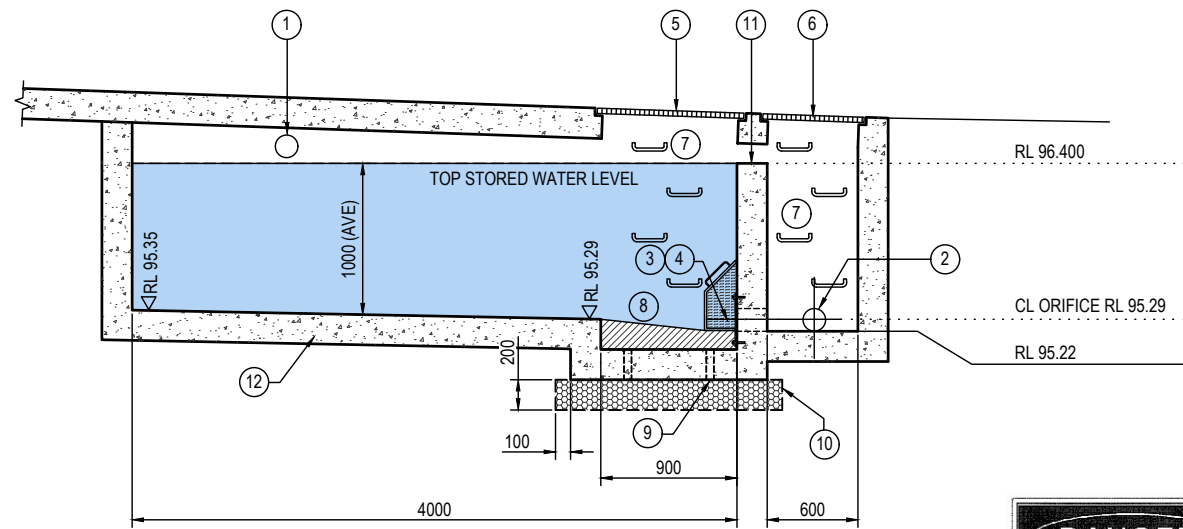
**ACOR Consultants (CC) Pty Ltd**  
Platinum Building, Suite 2.01, 4 Ilya Avenue  
ERINA NSW 2250, Australia  
T +61 2 4324 3499

Project: **PROPOSED SUBDIVISION**  
No.'s 49A & 51  
NORFOLK ROAD  
EPPING

Drawing Title: **GENERAL ARRANGEMENT PLAN SHEET 3 OF 3**

| Drawn | Date     | Scale    | A1 | O.A. Check | Date |
|-------|----------|----------|----|------------|------|
| CL    | NOV 2021 | AS NOTED | -  | -          | -    |

| Designed | Project No. | Dwg. No. | Issue |
|----------|-------------|----------|-------|
| BK       | CC210384    | D6       | G     |

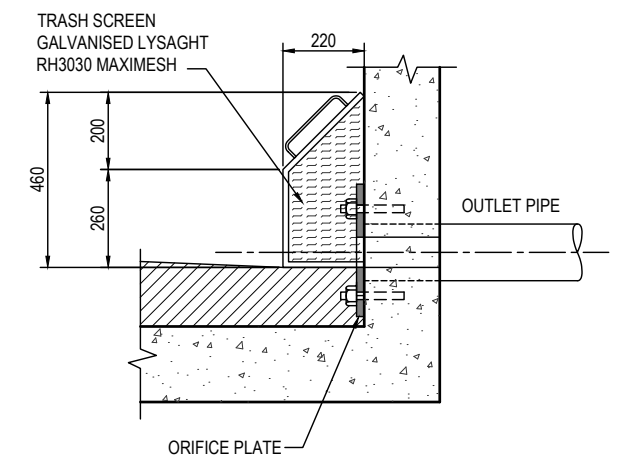
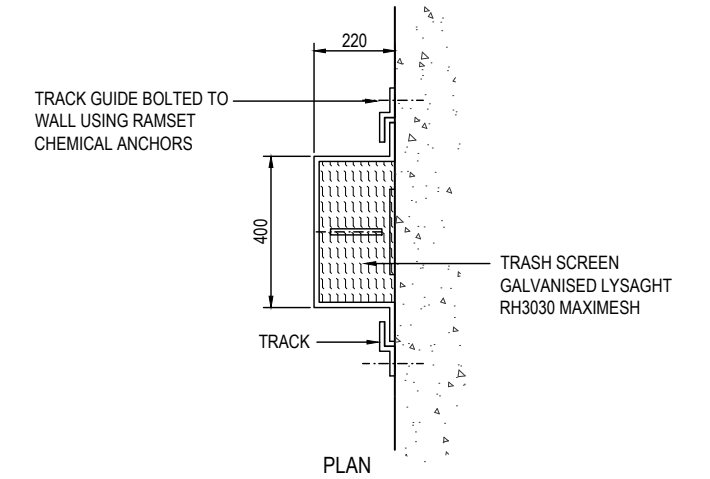


TYPICAL SECTION THROUGH OSD TANK  
SCALE - 1:25/A1, 1:50/A3



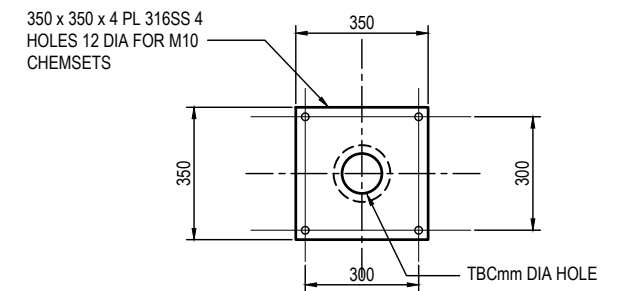
PROVIDE CONFINED SPACE SIGNAGE AT ENTRY POINTS INTO TANK.

| LEGEND |   |
|--------|---|
| ①      | SURFACE WATER INLET PIPE  |
| ②      | 150 DIA DISCHARGE PIPE<br>350 x 350 x 4 PL 316SS 4 HOLES<br>12 DIA FOR M10 CHEMSETS   |
| ③      | TRASH SCREEN LYSAGHT RH3030<br>GALV. REMOVABLE WITH HANDLE  |
| ④      | 900 x 900 HD GRATED<br>INLET BOLTED DOWN  |
| ⑤      | 900 x 600 HD GRATED<br>INLET BOLTED DOWN  |
| ⑥      | PROVIDE GALVANISED STEP IRONS AT<br>300mm CENTRES WHERE DEPTH<br>EXCEEDS 1100mm IN ACCORDANCE<br>WITH THE AUST. STANDARDS AT ALL<br>ACCESS POINTS OF THE TANK, TYP. |
| ⑦      | CONCRETE BENCHING TO SUIT   |
| ⑧      | PROVIDE 4 / 20 DIA HOLES IN PIT<br>BASE FILLED WITH AGGREGATE   |
| ⑨      | 100mm MIN THICK, 14mm BLUE METAL<br>LAYER, WRAPPED IN GEOTEXTILE FABRIC   |
| ⑩      | OSD OVERFLOW WEIR   |
| ⑪      | TANK STRUCTURE TO<br>STRUCTURAL ENGINEERS DETAILS   |



SIDE VIEW CROSS SECTION

DETAIL 1 - TRASH SCREEN  
SCALE 1:10/A1, 1:20/A3



DETAIL 2 - ORIFICE PLATE  
SCALE 1:10/A1, 1:20/A3

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|--------|----------------|
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| Client |
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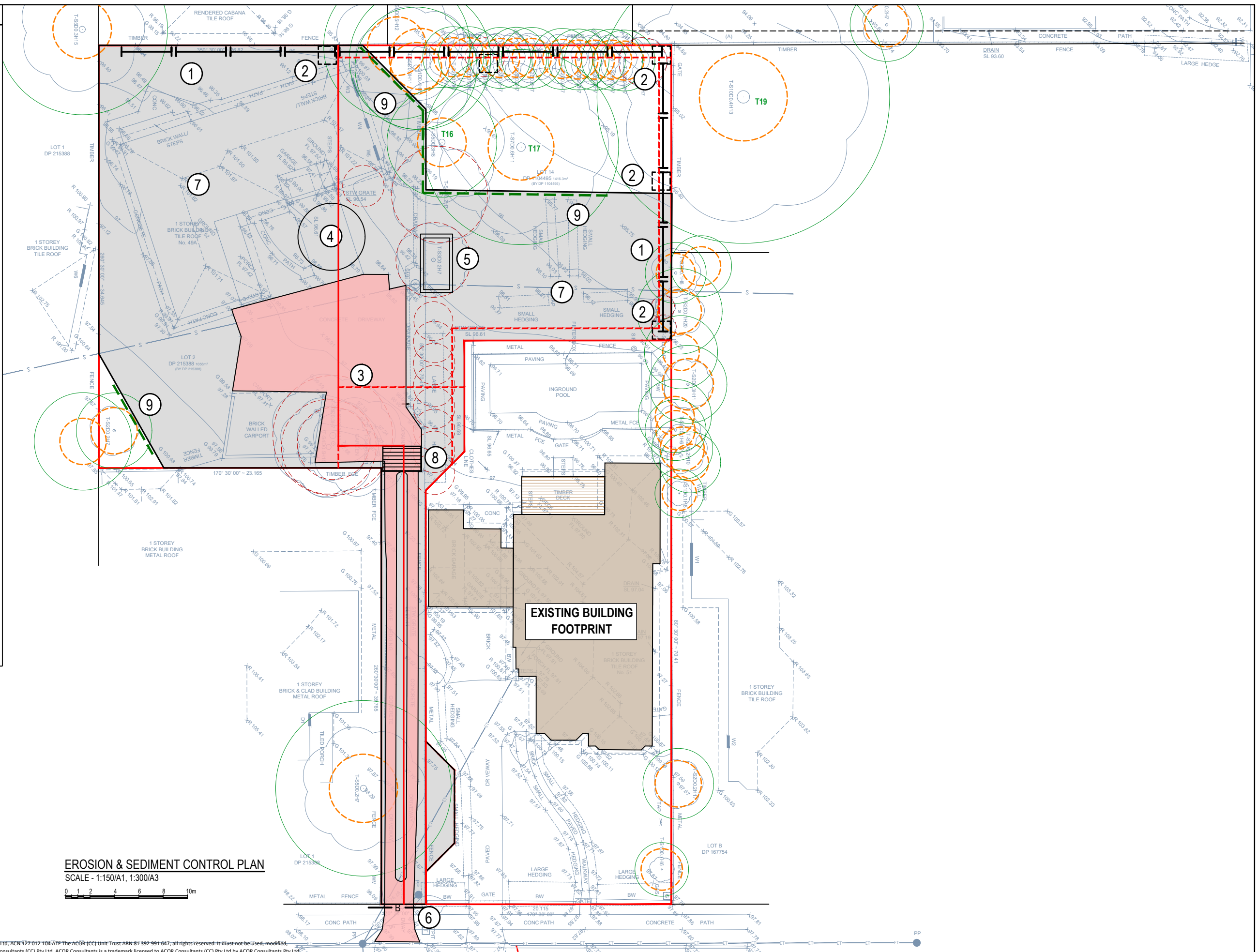
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CONSULTANTS ENGINEERS | MANAGERS | INFRASTRUCTURE PLANNERS | DEVELOPMENT CONSULTANTS

| Project              | Drawing Title                   |
|----------------------|---------------------------------|
| PROPOSED SUBDIVISION | STORMWATER MANAGEMENT<br>DETAIL |

| Drawn    | Date        | Scale    | A1    | O.A. Check | Date |
|----------|-------------|----------|-------|------------|------|
| CL       | NOV 2021    | AS NOTED | -     | -          | -    |
| Designed | Project No. | Dwg. No. | Issue |            |      |
| BK       | CC210384    | D12      | G     |            |      |

**EROSION & SEDIMENT LEGEND**

- ① INSTALL SEDIMENT FENCING REFER DETAIL SD 6-8, SHEET D15. WHERE UNDER CANOPY AREAS OF TREES TO BE RETAINED, FENCING NOT TO BE DUG INTO THE GROUND BUT INSTEAD ATTACHED TO GROUND BY TIGHTLY PACKED SANDBAGS.
- ② NOTE: PROVIDE PROTECTION TO DRAINAGE PITS FOLLOWING PIT INSTALLATION. REFER DETAIL SD6-12 ON SHEET D15
- ③ THE EXISTING DRIVEWAY CROSSOVER & LAYBACK ARE TO BE RETAINED FOR SITE ACCESS UNTIL REASONABLE COMPLETION OF CONSTRUCTION WORKS
- ④ STOCKPILE IN ACCORDANCE WITH DETAIL SD 4-1, REFER TO SHEET D15  
LOCATION MAY VARY PENDING CONSTRUCTION STAGING
- ⑤ WASTE STORAGE AREA PROVIDE SOLID AND LIQUID WASTE RECEPTACLE BINS. LOCATION TO BE ADJUSTED TO SUIT CONSTRUCTION STAGING.
- ⑥ BARRIER FENCING OR UTILISE EXISTING BOUNDARY FENCE
- ⑦ PROPOSED DISTURBED AREA
- ⑧ TRUCK WASH DOWN AREA. PROVIDE RAILWAY LINE SHAKER ON LARGE COARSE DIA. AGGREGATE OR RECYCLED CONCRETE IN ACCORDANCE WITH DETAIL SD 10-1 ON SHEET D15
- ⑨ PROVIDE TREE PROTECTION MEASURES IN ACCORDANCE WITH ARBORIST REPORT OR COUNCIL SPECIFICATIONS.



**EROSION & SEDIMENT CONTROL PLAN**

SCALE - 1:150/A1, 1:300/A3



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Project  
**PROPOSED SUBDIVISION**

No. 49A & 51  
NORFOLK ROAD  
EPPING

| Drawing Title                              |             |          |       |            |
|--|-------------|----------|-------|------------|
| <b>EROSION &amp; SEDIMENT CONTROL PLAN</b> |             |          |       |            |
| Drawn                                      | Date        | Scale    | A1    | Q.A. Check |
| CL   | NOV 2021    | AS NOTED | -     | -          |
| Designed                                   | Project No. | Dwg. No. | Issue |            |
| BK   | CC210384    | D13      | G     |            |

**EROSION AND SEDIMENT CONTROL NOTES**

**GENERAL INSTRUCTIONS**

- THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT.
- CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION", DEPT OF HOUSING, 1998 (BLUE BOOK).
- ALL SUBCONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.

**LAND DISTURBANCE INSTRUCTIONS**

- DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY 2) METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVED PLANS. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
- ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
- ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH.
- WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE:
  - INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN.
  - CONSTRUCT THE STABILISED SITE ACCESS.
  - CONSTRUCT DIVERSION DRAINS AS REQUIRED.
  - INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB INLETS.
  - INSTALL GEOTEXTILE INLET FILTERS AROUND ANY ON-SITE DROP INLET PITS.
  - CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS SHOWN ON THE PLAN.
  - UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS SOON AS PRACTICABLE.
  - GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS.
  - REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.
- ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE. SLOPE LENGTHS ARE DETERMINED BY SILTATION FENCING AND CATCH DRAIN SPACING.
- ON COMPLETION OF MAJOR WORKS LEAVE DISTURBED LANDS WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING TOPSOIL LATER.

**SITE MAINTENANCE INSTRUCTIONS**

- THE SITE SUPERINTENDENT WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO:
  - ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS.
  - REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS.
  - REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THAT STRUCTURE HAS BEEN EXCEEDED.
  - ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS NECESSARY.
  - CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS. MAKE ONGOING CHANGES TO THE PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN THE CATCHMENT.
  - MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
- THE SITE SUPERINTENDENT WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE:
  - THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS.
  - THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS.
  - THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE.
  - THE NEED FOR DUST PREVENTION STRATEGIES.
  - ANY REMEDIAL WORKS TO BE UNDERTAKEN. THE LOGBOOK WILL BE KEPT ON-SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF THE WORKS.

**SEDIMENT CONTROL INSTRUCTIONS**

- SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE SITE SUPERINTENDENT TO CONTAIN SOIL AS NEAR AS POSSIBLE TO THEIR SOURCE.
- SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES.
- SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CANNOT OCCUR.
- STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS.
- WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN TREATED BY AN APPROVED DEVICE.
- TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
- ACCESS TO SITES SHOULD BE STABILISED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXIT.

**SOIL EROSION CONTROL INSTRUCTIONS**

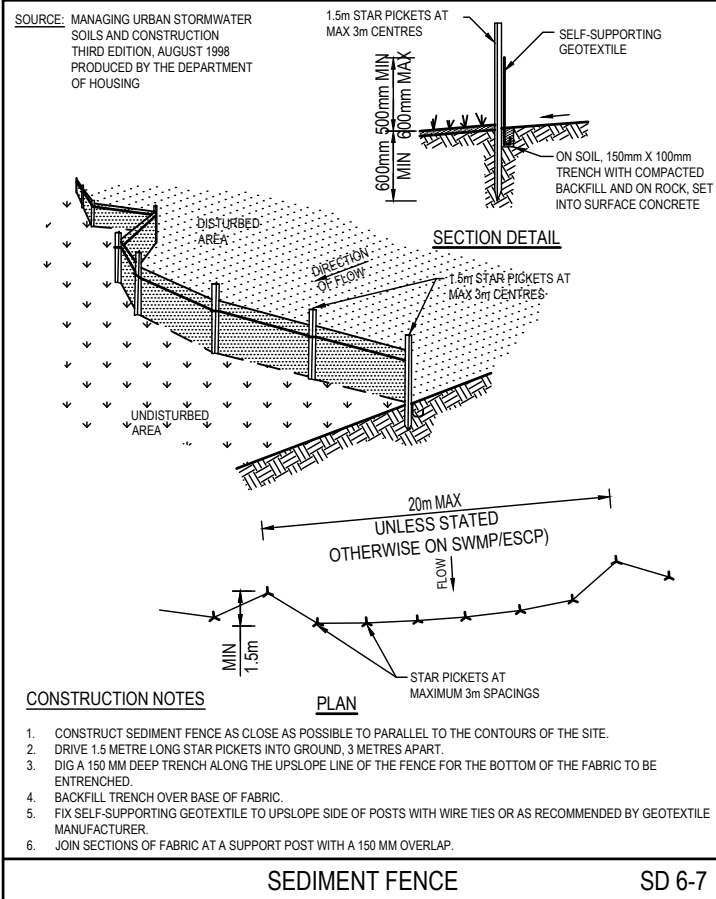
- EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS OTHERWISE NOTED, THAN:
  - 2(H):1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES
  - 2.5(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 16 METRES.
  - 3(H):1(V) WHERE SLOPE LENGTH BETWEEN 16 AND 20 METRES.
  - 4(H):1(V) WHERE SLOPE LENGTH GREATER THAN 20 METRES.
- ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR ARI, TIME OF CONCENTRATION STORM EVENT.
- WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND COVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION. FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5-1 OF "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", DEPT OF HOUSING 1998 (BLUE BOOK). FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS.
- STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.1 (60% GROUND-COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION.
- ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER.
- FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY COVER: JAPANESE MILLET 20 KG/HA AND OATS 20 KG/HA.
- PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND-COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY. FOLLOW-UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY. REVEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTANT ANNUAL COVER CROPS SHOULD BE USED.

**WASTE CONTROL INSTRUCTIONS**

- ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST WEEKLY. DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.
- ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS, FLOOD PRONE AREAS, STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS. STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS.
- ALL SITE STAFF AND SUB-CONTACTORS ARE TO BE INFORMED OF THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES PROVIDED.
- ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS.
- PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.

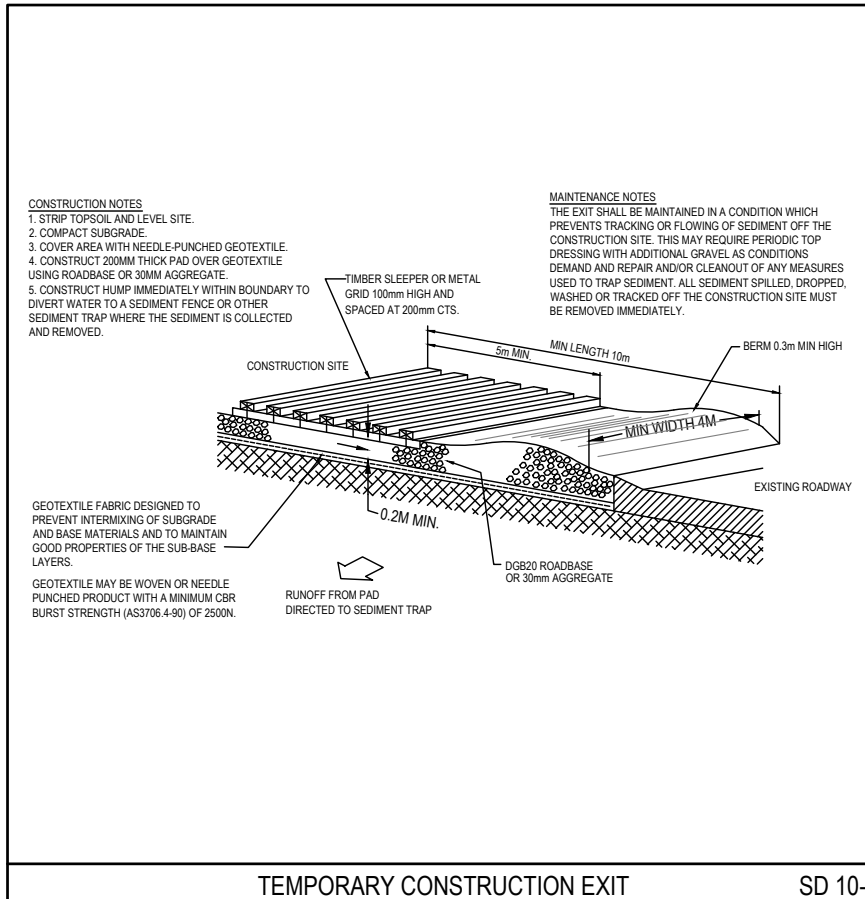
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|       |  |                                       |          |       |          |       |                     |                                    |   |  |  |             |          |       |            |      |
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| G     |  | RE-ISSUED FOR DEVELOPMENT APPLICATION | 19.04.22 | SJ    | BK       | North | Client<br><b>JO</b> | Planner<br><b>MINTO PLANNING</b>   |  ACOR Consultants (CC) Pty Ltd<br>Platinum Building, Suite 2.01, 4 Ilya Avenue<br>ERINA NSW 2250, Australia<br>T +61 2 4324 3499 | Project<br><b>PROPOSED SUBDIVISION</b> | Drawing Title<br><b>EROSION &amp; SEDIMENT CONTROL NOTES</b> |             |          |       |            |      |
| F     |  | RE-ISSUED FOR DEVELOPMENT APPLICATION | 14.04.22 | SJ    | BK       |       |                     |                                    |   |  | Drawn  | Date        | Scale    | A1    | O.A. Check | Date |
| E     |  | RE-ISSUED FOR DEVELOPMENT APPLICATION | 13.04.22 | SJ    | BK       |       |                     |                                    |   |  | CL   | NOV 2021    | AS NOTED | -     | -          | -    |
| D     |  | RE-ISSUED FOR REVIEW                  | 13.04.22 | SJ    | BK       |       |                     |                                    |   |  | Designed   | Project No. | Dwg. No. | Issue |            |      |
| Issue |  | Description                           | Date     | Drawn | Approved | BK    |                     | CC210384                           |   | D14                                    |  | G           |          |       |            |      |
|       |  | 1cm at full size                      |          |       |          |       |                     | No.'s 49A & 51 NORFOLK ROAD EPPING |   |  |  |             |          |       |            |      |



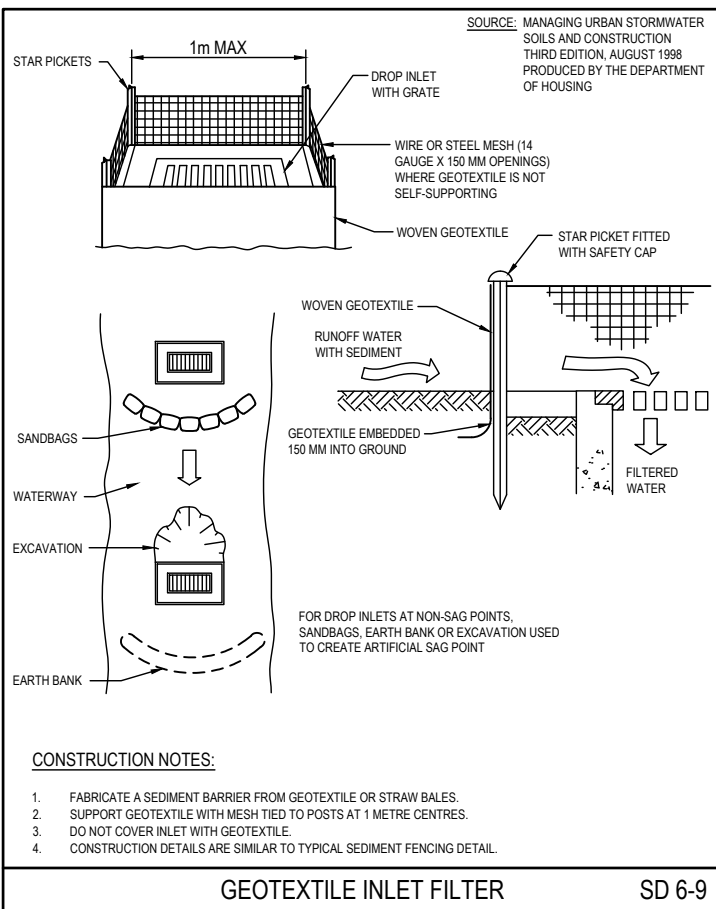
SEDIMENT FENCE

SD 6-7



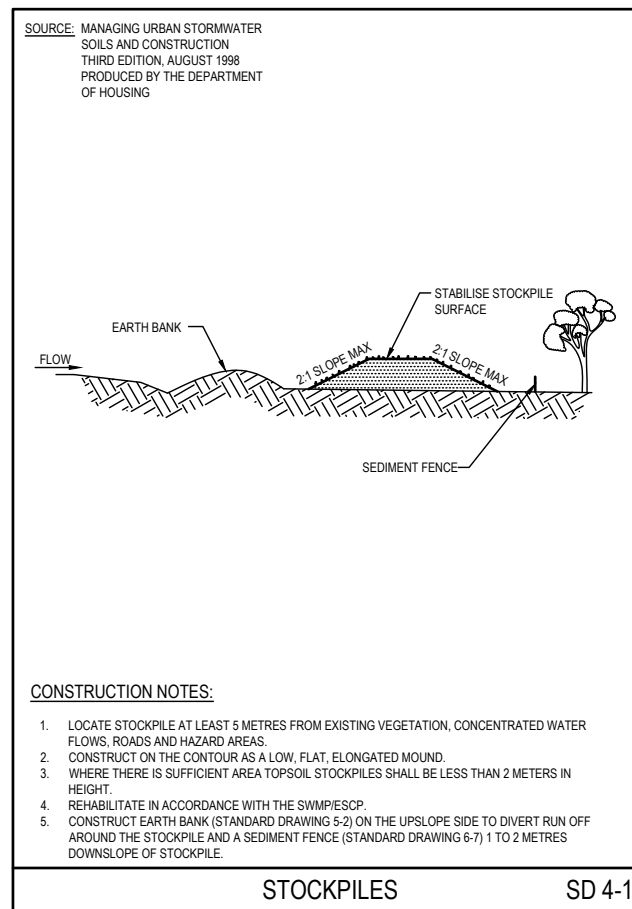
TEMPORARY CONSTRUCTION EXIT

SD 10-1



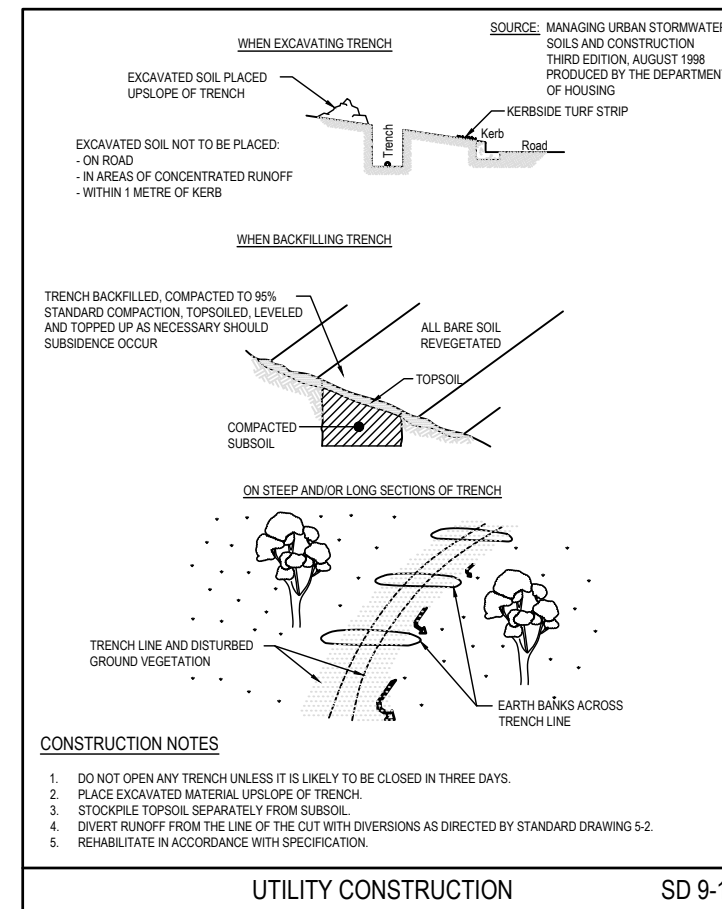
GEOTEXTILE INLET FILTER

SD 6-9



STOCKPILES

SD 4-1



UTILITY CONSTRUCTION

SD 9-1

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| Issue | Description                           | Date     | Drawn | Approved |
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| D     | RE-ISSUED FOR REVIEW                  | 13.04.22 | SJ    | BK       |

|        |                |
|--------|----------------|
| Client | Planner        |
| JO     | MINTO PLANNING |

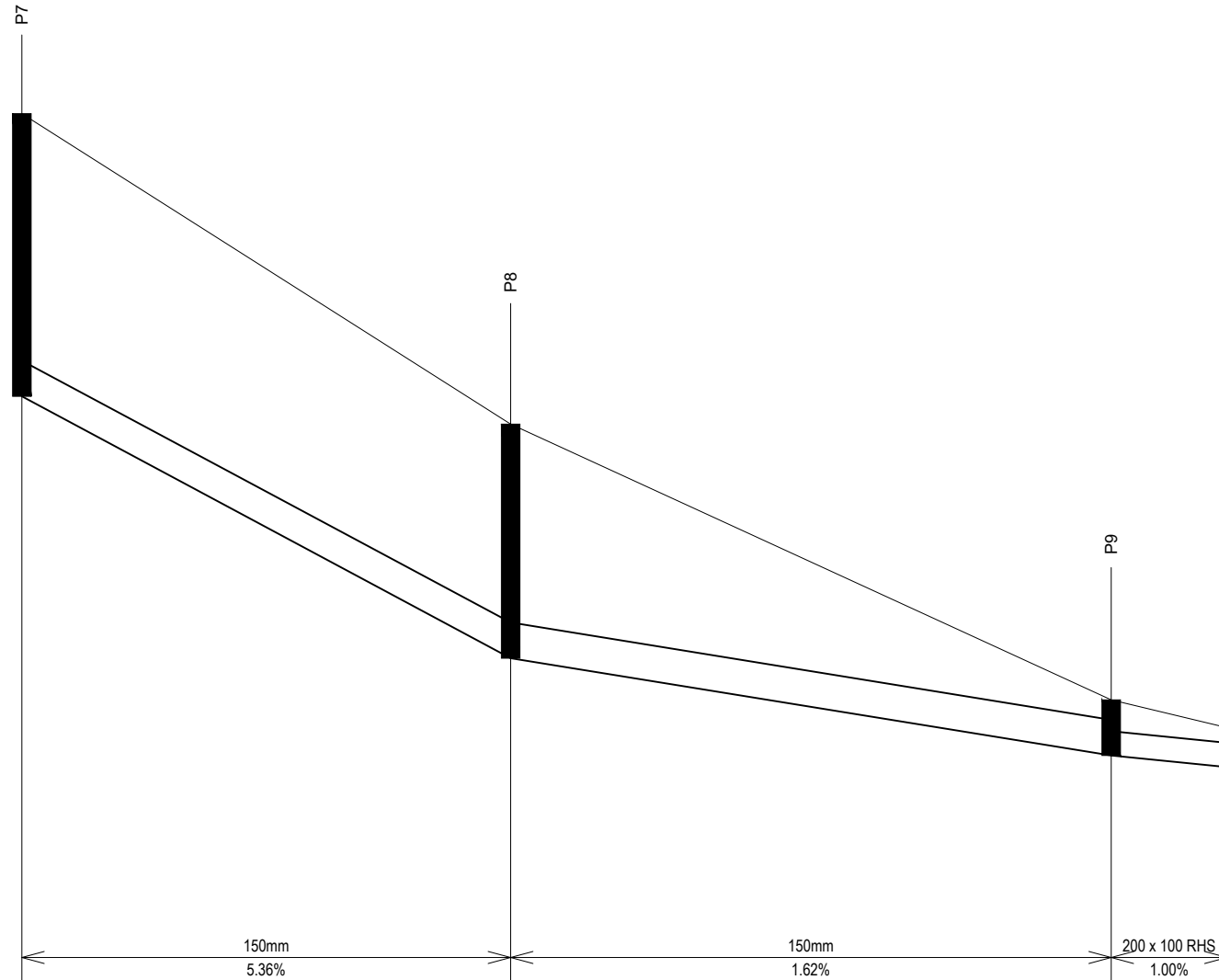
**ACOR Consultants (CC) Pty Ltd**  
 Platinum Building, Suite 2.01, 4 Ilya Avenue  
 ERINA NSW 2250, Australia  
 T +61 2 4324 3499

ENGINEERS | MANAGERS | INFRASTRUCTURE PLANNERS | DEVELOPMENT CONSULTANTS

Project  
**PROPOSED SUBDIVISION**

No.'s 49A & 51  
 NORFOLK ROAD  
 EPPING

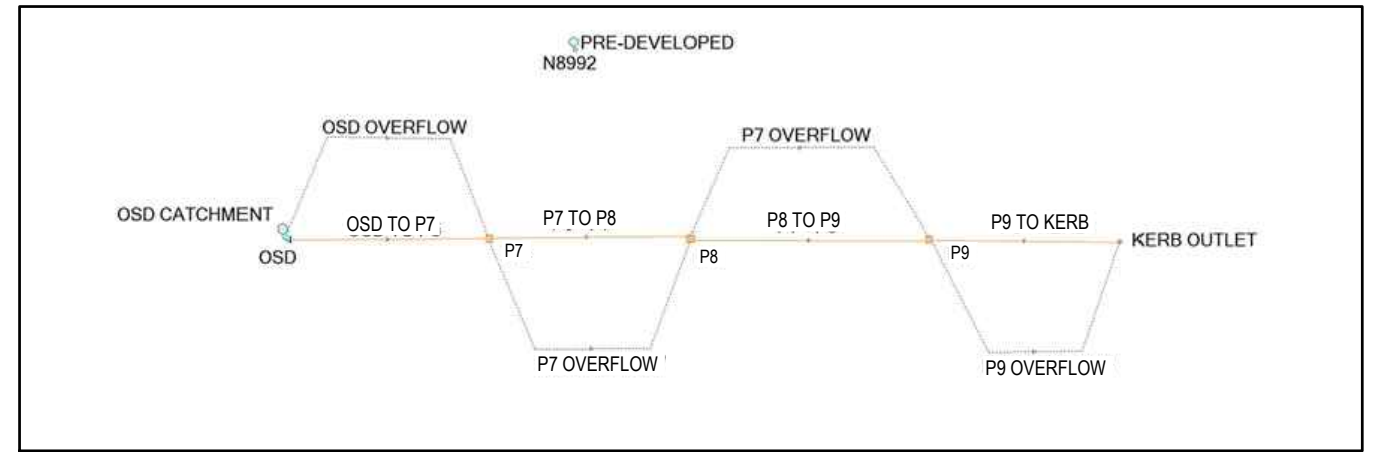
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| <b>EROSION &amp; SEDIMENT CONTROL DETAILS</b> |             | A1       |    | -          |      |
| Drawn   | Date        | Scale    | A1 | Q.A. Check | Date |
| CL  | NOV 2021    | AS NOTED |    | -          | -    |
| Designed                                      | Project No. | Dwg. No. |    |            |      |
| BK  | CC210384    | D15      | G  |            |      |



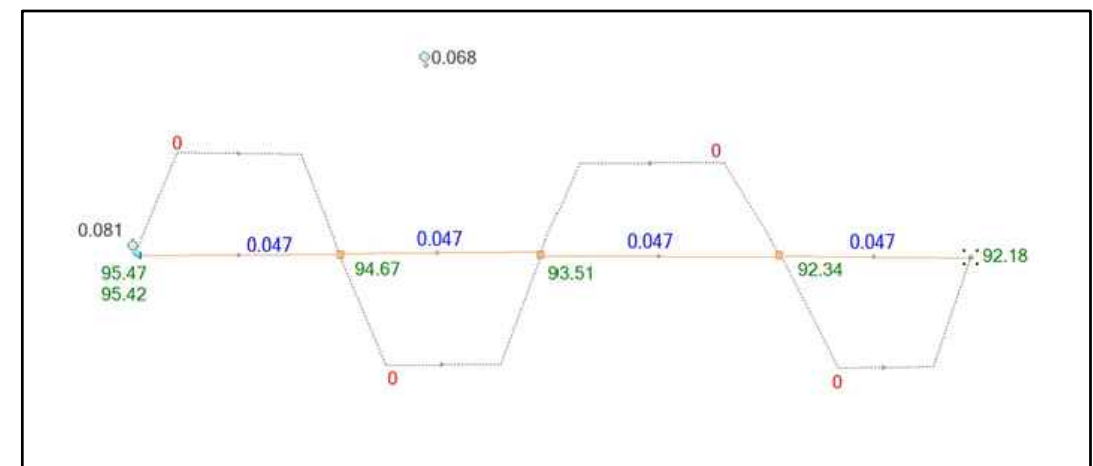
|               | 0.00   | 21.10            | 47.03            | 52.03  |
|---------------|--------|------------------|------------------|--------|
| Datum El. 91  |        |                  |                  |        |
| SURFACE LEVEL | 94.9   | 93.56            | 92.37            | 92.25  |
| INVERT LEVEL  | 93.680 | 92.550<br>92.550 | 92.130<br>92.130 | 92.080 |
| CHAINAGE      | 0.00   | 21.10            | 47.03            | 52.03  |

**DRAINAGE EASEMENT LONG SECTION**

HORIZONTAL SCALE - 1:150/A1, 1:300/A3  
 VERTICAL SCALE - 1:30/A1, 1:60/A3



**DRAINS MODEL - SCHEMATIC**



**DRAINS MODEL - POST DEVELOPED 20 YEAR ARI EVENT**

**DRAINS SUMMARY**

|                                      |                        |
|--------------------------------------|------------------------|
| SITE AREA                            | 1728m <sup>2</sup>     |
| 5 YEAR ARI FLOWRATE                  | 50 L/s (100% PERVIOUS) |
| POST DEVELOPED IMPERVIOUS COVERAGE   | 75%                    |
| 20 YEAR ARI POST DEVELOPED DISCHARGE | 47 L/s                 |
| TOTAL REQUIRED STORAGE VOLUME        | 25 m <sup>3</sup>      |

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|---|---------------------------------------|----------|---------------------------------------|------------|-------|------------|-------|----|---------------------------------------|----------|----|----|---|----------|---------------------------------------|----------|----|----|--|----|----------------------|----------|----|----|--|--|-------------|------|-------|----------|--|---------------------|----------------------------------|--|--|--|--|
| <table border="1"> <tr> <td>G</td> <td>RE-ISSUED FOR DEVELOPMENT APPLICATION</td> <td>19.04.22</td> <td>SJ</td> <td>BK</td> <td>North</td> </tr> <tr> <td>F</td> <td>RE-ISSUED FOR DEVELOPMENT APPLICATION</td> <td>14.04.22</td> <td>SJ</td> <td>BK</td> <td></td> </tr> <tr> <td>E</td> <td>RE-ISSUED FOR DEVELOPMENT APPLICATION</td> <td>13.04.22</td> <td>SJ</td> <td>BK</td> <td></td> </tr> <tr> <td>D</td> <td>RE-ISSUED FOR REVIEW</td> <td>13.04.22</td> <td>SJ</td> <td>BK</td> <td></td> </tr> <tr> <td>Issue</td> <td>Description</td> <td>Date</td> <td>Drawn</td> <td>Approved</td> <td></td> </tr> </table> |                                       | G        | RE-ISSUED FOR DEVELOPMENT APPLICATION | 19.04.22   | SJ    | BK         | North | F  | RE-ISSUED FOR DEVELOPMENT APPLICATION | 14.04.22 | SJ | BK |   | E        | RE-ISSUED FOR DEVELOPMENT APPLICATION | 13.04.22 | SJ | BK |  | D  | RE-ISSUED FOR REVIEW | 13.04.22 | SJ | BK |  | Issue                                    | Description | Date | Drawn | Approved |  | Client<br><b>JO</b> | Planner<br><b>MINTO PLANNING</b> |  | <b>ACOR Consultants (CC) Pty Ltd</b><br>Platinum Building, Suite 2.01, 4 Ilya Avenue<br>ERINA NSW 2250, Australia<br>T +61 2 4324 3499 | Project<br><b>PROPOSED SUBDIVISION</b> | Drawing Title<br><b>DRAINAGE DESIGN SUMMARY AND LONG SECTION</b> |
| G   | RE-ISSUED FOR DEVELOPMENT APPLICATION | 19.04.22 | SJ                                    | BK         | North |            |       |    |                                       |          |    |    |   |          |                                       |          |    |    |  |    |                      |          |    |    |  |  |             |      |       |          |  |                     |                                  |  |  |  |  |
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| CL  | NOV 2021                              | AS NOTED |                                       | -          | -     |            |       |    |                                       |          |    |    |   |          |                                       |          |    |    |  |    |                      |          |    |    |  |  |             |      |       |          |  |                     |                                  |  |  |  |  |
| Designed  | Project No.                           | Dwg. No. |                                       |            |       |            |       |    |                                       |          |    |    |   |          |                                       |          |    |    |  |    |                      |          |    |    |  |  |             |      |       |          |  |                     |                                  |  |  |  |  |
| BK  | CC210384                              | D16      | G                                     |            |       |            |       |    |                                       |          |    |    |   |          |                                       |          |    |    |  |    |                      |          |    |    |  |  |             |      |       |          |  |                     |                                  |  |  |  |  |