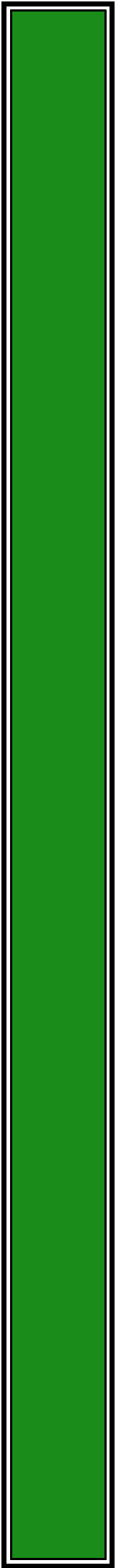
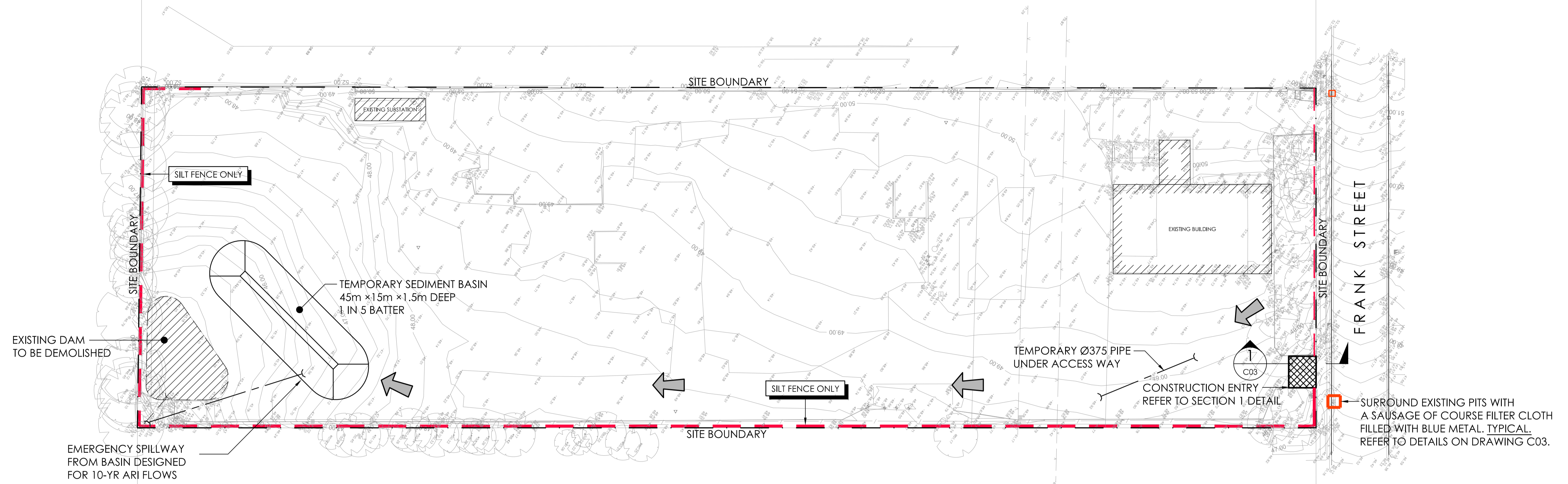


Attachment 16  
Triaxial Consulting Plans





**STAGE 1  
EROSION & SEDIMENT CONTROL PLAN**  
SCALE 1:500

**LEGEND:**

- SILT FENCE ONLY  
REFER DETAILS ON DRAWING C03
- Q100 AR1 OVERLAND FLOW PATH

SEDIMENT BASIN DETAILS					
Cv	RAINFALL EVENT (5 DAY 85%)	CATCHMENT AREA (ha)	SETTLING ZONE VOLUME (m³)	SEDIMENT STORAGE VOLUME (m³)	TOTAL BASIN STORAGE VOLUME (m³)
0.51	32.2	2.05	334	167	501

**POST STORM DEWATERING NOTES**

- ON THE DAY IMMEDIATELY FOLLOWING A STORM EVENT:
- ADD GYPSUM TO THE SEDIMENT BASIN AT A RATE OF 30KG PER 100M3
  - GYPSUM IS TO BE ADDED EVENLY ACROSS THE SURFACE OF THE BASIN FOLLOWING THE APPLICATION GUIDELINES IN SECTION E4.1 OF THE BLUEBOOK
  - NOTE APPROXIMATELY 4 DAYS SETTLING TIME IS REQUIRED

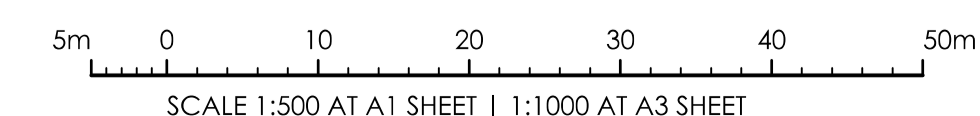
- FOLLOWING 4-DAY SETTLING PERIOD:
- WATER TO BE TESTED FOR TURBIDITY. TARGET 50MG/L
  - PUMP OUT SEDIMENT BASIN TO COUNCIL STORMWATER SYSTEM

- 5-DAY FOLLOWING STORM
- SEDIMENT BASIN TO BE EMPTIED IN READY FOR ANY FUTURE STORM EVENTS

**CONSTRUCTION STAGING**

- STAGE 1**
- INSTALL SEDIMENT CONTROLS
  - FORM NEW TEMPORARY SEDIMENT TRAP
  - REMOVE EXISTING SEDIMENT TRAP
  - FORM NEW RETAINING WALLS ALONG THE NORTHERN AND WESTERN PERIMETERS OF THE SITE
  - INSTALL NEW HARVESTING TANKS
  - BULK FILL AND GRADE TO HARVESTING TANKS

- STAGE 2**
- CONNECT OVERFLOW FROM HARVESTING TANK TO STORMWATER
  - REMOVE TEMPORARY SEDIMENT TRAP & BACKFILL
  - BULK FILL AND GRADE SITE TO FINISHED LEVELS
  - INSTALL SITE STORMWATER SYSTEM
  - INSTALL FINAL PAVEMENTS
  - CONNECT STORMWATER SYSTEM INTO COUNCIL MAINLINE
  - DESLUDGE HARVESTING TANKS



ISSUED FOR APPROVAL	24/08/2016	0
POST STORM DEWATERING NOTES REVISED	19/08/2016	B
ISSUED FOR APPROVAL	18/08/2016	A
AMENDMENTS	DATE	ISSUE
STATUS		

**ISSUED FOR APPROVAL**



1300 874 294 | TRIAXIAL.COM.AU  
SUITE 12, LEVEL 14, 327 PITT STREET, SYDNEY 2000  
PO BOX A203, SYDNEY SOUTH, NSW 1235  
SYDNEY | ADELAIDE | BAROSSA | DARWIN | MUDGEE



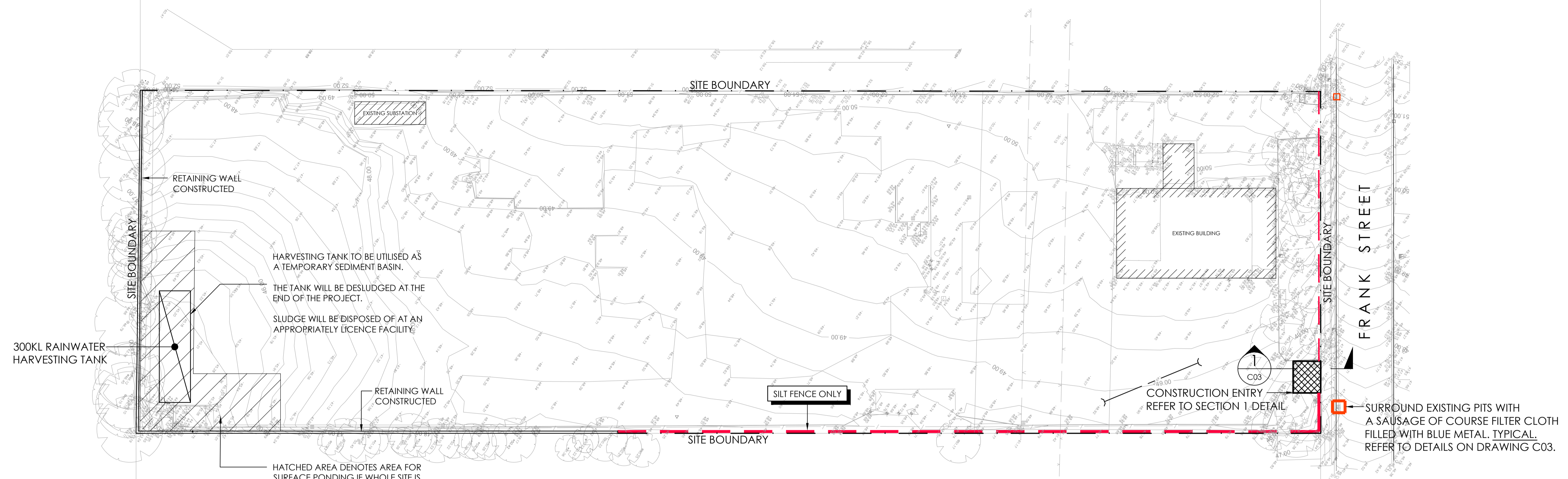
CLIENT  
**RESOURCE Co.**  
35-37 FRANK STREET  
WETHERILL PARK NSW

DESIGNED D.V.	DRAWN F.N.	DATE 17.08.16	SIZE A1	CAD REF TX-11972.00-C01
------------------	---------------	------------------	------------	----------------------------

DRAWING TITLE  
**STAGE 1  
EROSION & SEDIMENT  
CONTROL PLAN**

DRAWING No  
**TX-11972.00 C01**

ISSUE  
**0**



HARVESTING TANK TO BE UTILISED AS A TEMPORARY SEDIMENT BASIN.  
THE TANK WILL BE DESLUDGED AT THE END OF THE PROJECT.  
SLUDGE WILL BE DISPOSED OF AT AN APPROPRIATELY LICENCE FACILITY.

HATCHED AREA DENOTES AREA FOR SURFACE PONDING IF WHOLE SITE IS STILL UNDEVELOPED  
AREA SHOWN WITH A DEPTH OF 250mm IS EQUAL TO 205 KL

**STAGE 2  
EROSION & SEDIMENT CONTROL PLAN**  
SCALE 1:500

**LEGEND:**  
— SILT FENCE ONLY  
REFER DETAILS ON DRAWING C03

SEDIMENT BASIN DETAILS					
Cv	RAINFALL EVENT (5 DAY 85%)	CATCHMENT AREA (ha)	SETTLING ZONE VOLUME (m³)	SEDIMENT STORAGE VOLUME (m³)	TOTAL BASIN STORAGE VOLUME (m³)
0.51	32.2	2.05	334	167	501

**POST STORM DEWATERING NOTES**

- ON THE DAY IMMEDIATELY FOLLOWING A STORM EVENT:
- ADD GYPSUM TO THE SEDIMENT BASIN AT A RATE OF 30KG PER 100M3
  - GYPSUM IS TO BE ADDED EVENLY ACROSS THE SURFACE OF THE BASIN FOLLOWING THE APPLICATION GUIDELINES IN SECTION E4.1 OF THE BLUEBOOK
  - NOTE APPROXIMATELY 4 DAYS SETTLING TIME IS REQUIRED

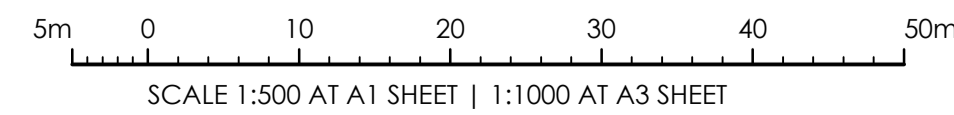
- FOLLOWING 4-DAY SETTLING PERIOD:
- WATER TO BE TESTED FOR TURBIDITY. TARGET 50MG/L
  - PUMP OUT SEDIMENT BASIN TO COUNCIL STORMWATER SYSTEM

- 5-DAY FOLLOWING STORM
- SEDIMENT BASIN TO BE EMPTIED IN READY FOR ANY FUTURE STORM EVENTS

**CONSTRUCTION STAGING**

- STAGE 1**
- INSTALL SEDIMENT CONTROLS
  - FORM NEW TEMPORARY SEDIMENT TRAP
  - REMOVE EXISTING SEDIMENT TRAP
  - FORM NEW RETAINING WALLS ALONG THE NORTHERN AND WESTERN PERIMETERS OF THE SITE
  - INSTALL NEW HARVESTING TANKS
  - BULK FILL AND GRADE TO HARVESTING TANKS

- STAGE 2**
- CONNECT OVERFLOW FROM HARVESTING TANK TO STORMWATER
  - REMOVE TEMPORARY SEDIMENT TRAP & BACKFILL
  - BULK FILL AND GRADE SITE TO FINISHED LEVELS
  - INSTALL SITE STORMWATER SYSTEM
  - INSTALL FINAL PAVEMENTS
  - CONNECT STORMWATER SYSTEM INTO COUNCIL MAINLINE
  - DESLUDGE HARVESTING TANKS



STATUS	DATE	ISSUE
SEDIMENT BASIN TABLE ADDED	27/09/2016	1
ISSUED FOR APPROVAL	24/08/2016	0
POST STORM DEWATERING NOTES REVISED	19/08/2016	B
ISSUED FOR APPROVAL	18/08/2016	A

**ISSUED FOR APPROVAL**



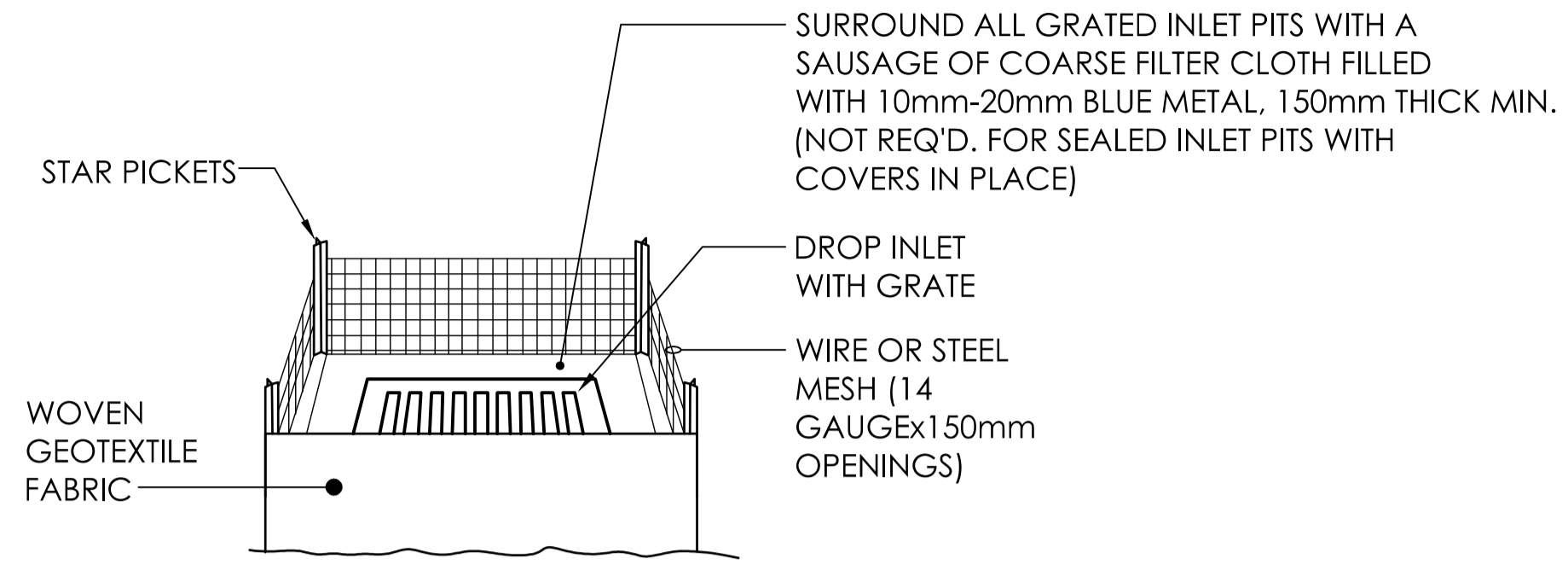
1300 874 294 | TRIAXIAL.COM.AU  
SUITE 12, LEVEL 14, 327 PITT STREET, SYDNEY 2000  
PO BOX A203, SYDNEY SOUTH, NSW 1235  
SYDNEY | ADELAIDE | BAROSSA | DARWIN | MUDGEE



CLIENT  
**RESOURCE Co.**  
35-37 FRANK STREET  
WETHERILL PARK NSW  
DESIGNED D.V. DRAWN F.N. DATE 17.08.16 SIZE A1 CAD REF TX-11972.00-C01

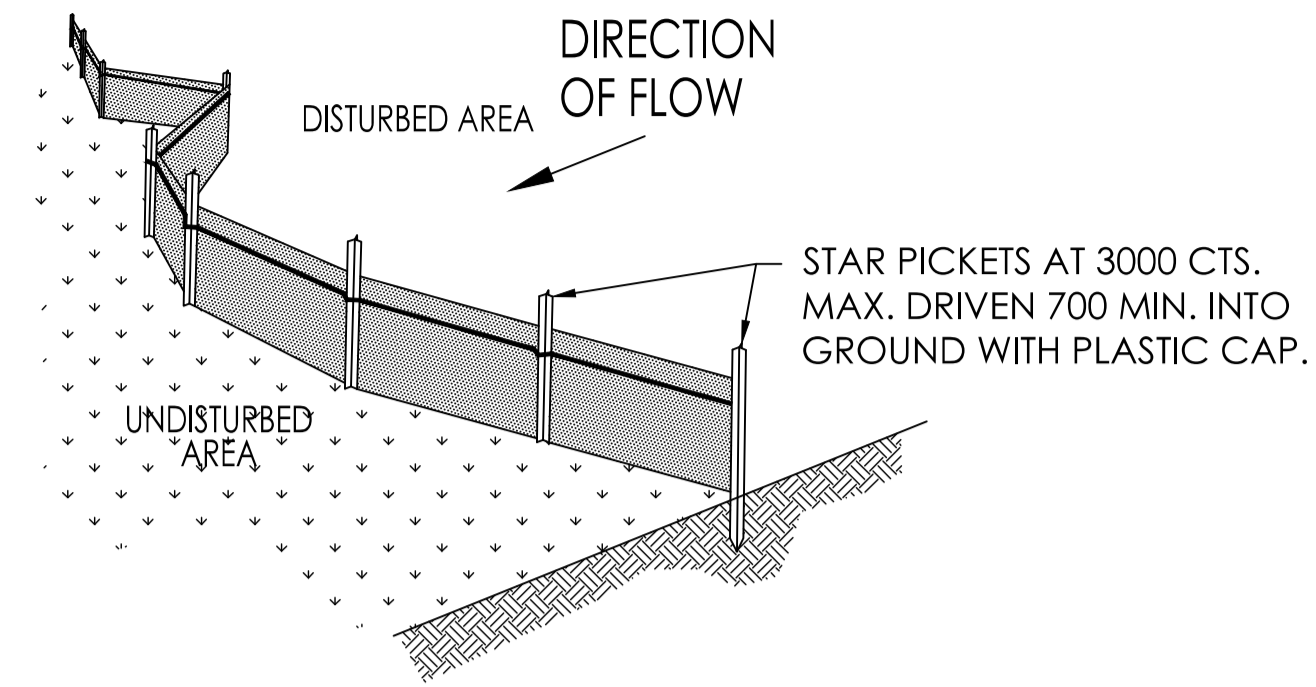
DRAWING TITLE  
**STAGE 2  
EROSION & SEDIMENT  
CONTROL PLAN**

DRAWING No **TX-11972.00** C02 ISSUE **1**

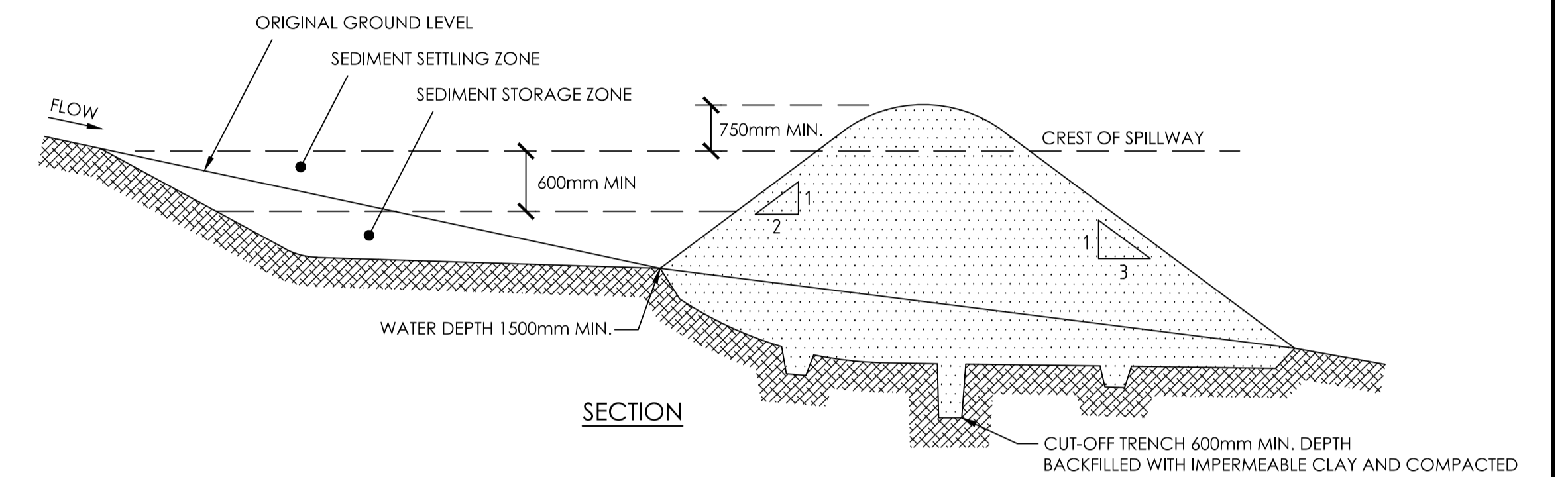
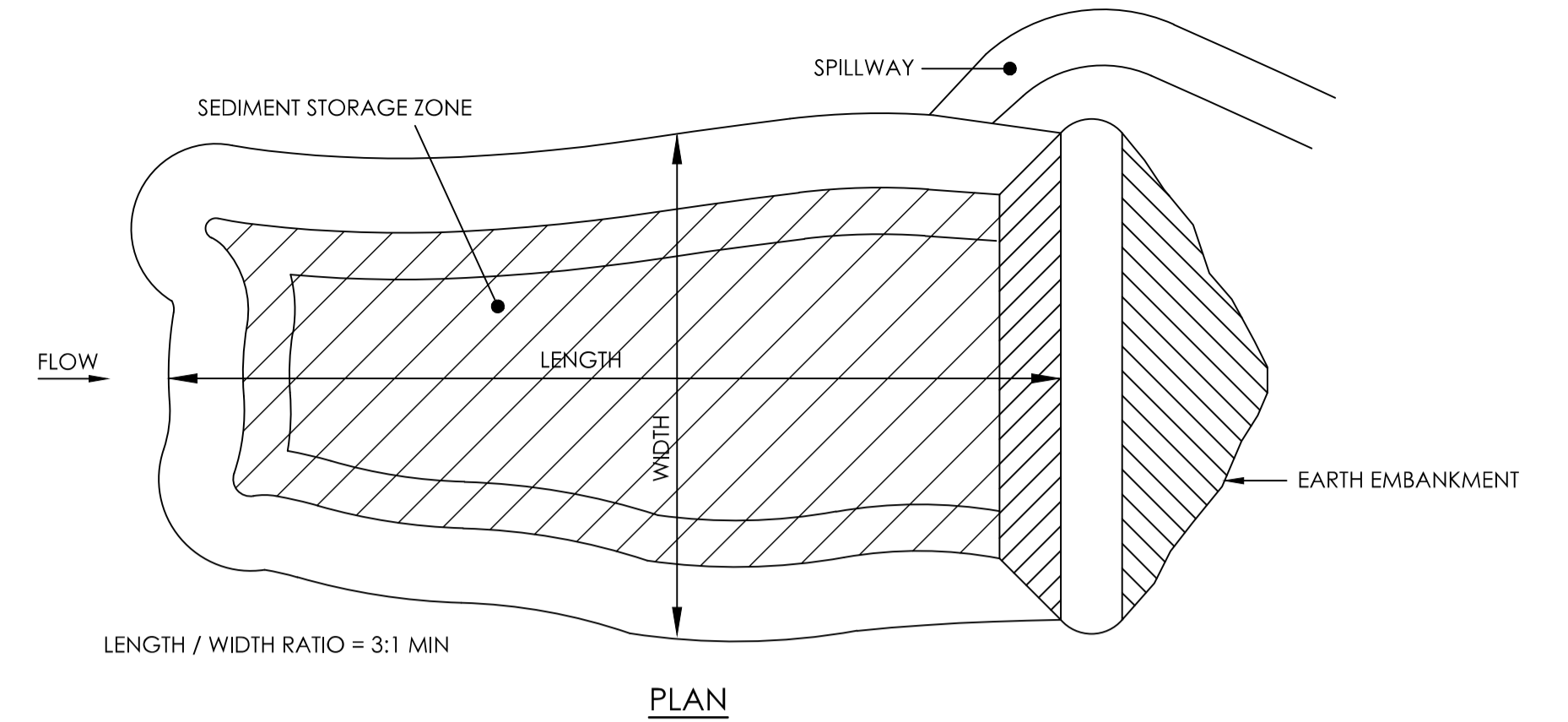


**GRADED INLET PIT FILTER DETAIL**  
N.T.S.

NOTE : ADOPT ABOVE DETAIL AROUND ALL PITS WITHIN AREA ENCOMPASSED BY SILT FENCE.



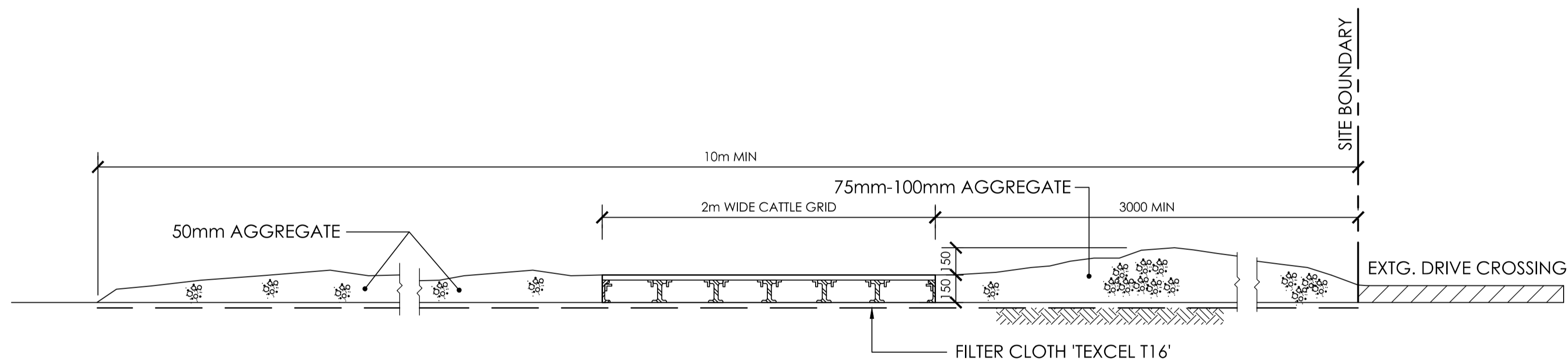
**TYPICAL SILT FENCE DETAIL**  
N.T.S.  
PROVIDE 1m RETURNS AT 30m INTERVALS.  
TYPICAL



**CONSTRUCTION NOTES**

1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
2. CONSTRUCT A CUT-OFF TRENCH 500mm DEEP AND 1200mm WIDE ALONG THE CENTRELINE OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT SPECIFIED IN THE SWMP TO 95% STANDARD PROCTOR DENSITY.
4. SELECT FILL ACCORDING TO THE DIRECTIONS OF THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING AT LEAST 100mm DEEP TO HELP BOND COMPACTED FILL TO EXISTING SUBSTRATE.
6. SPREAD FILL IN 100mm TO 150mm LAYERS AND COMPACT AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH SWMP.
7. CONSTRUCT EMERGENCY SPILLWAY.
8. REHABILITATE STRUCTURE IN ACCORDANCE WITH THE SWMP.
9. PLACE A 'FULL OF SEDIMENT' MARKER TO SHOW WHEN LESS THAN DESIGN CAPACITY OCCURS AND SEDIMENT REMOVAL IS REQUIRED.

**TYPICAL TEMPORARY SEDIMENT BASIN DETAIL**  
N.T.S.



**STABILISED CONSTRUCTION ENTRANCE 'TRUCK SHAKER'**

NOTE:  
TO BE CONSTRUCTED PRIOR TO COMMENCEMENT OF ANY WORKS.

SECTION 1  
C01-2

**NOTES:**

ALL EROSION & SEDIMENT CONTROL MEASURES TO BE IMPLEMENTED PRIOR TO COMMENCEMENT OF SITE WORKS.

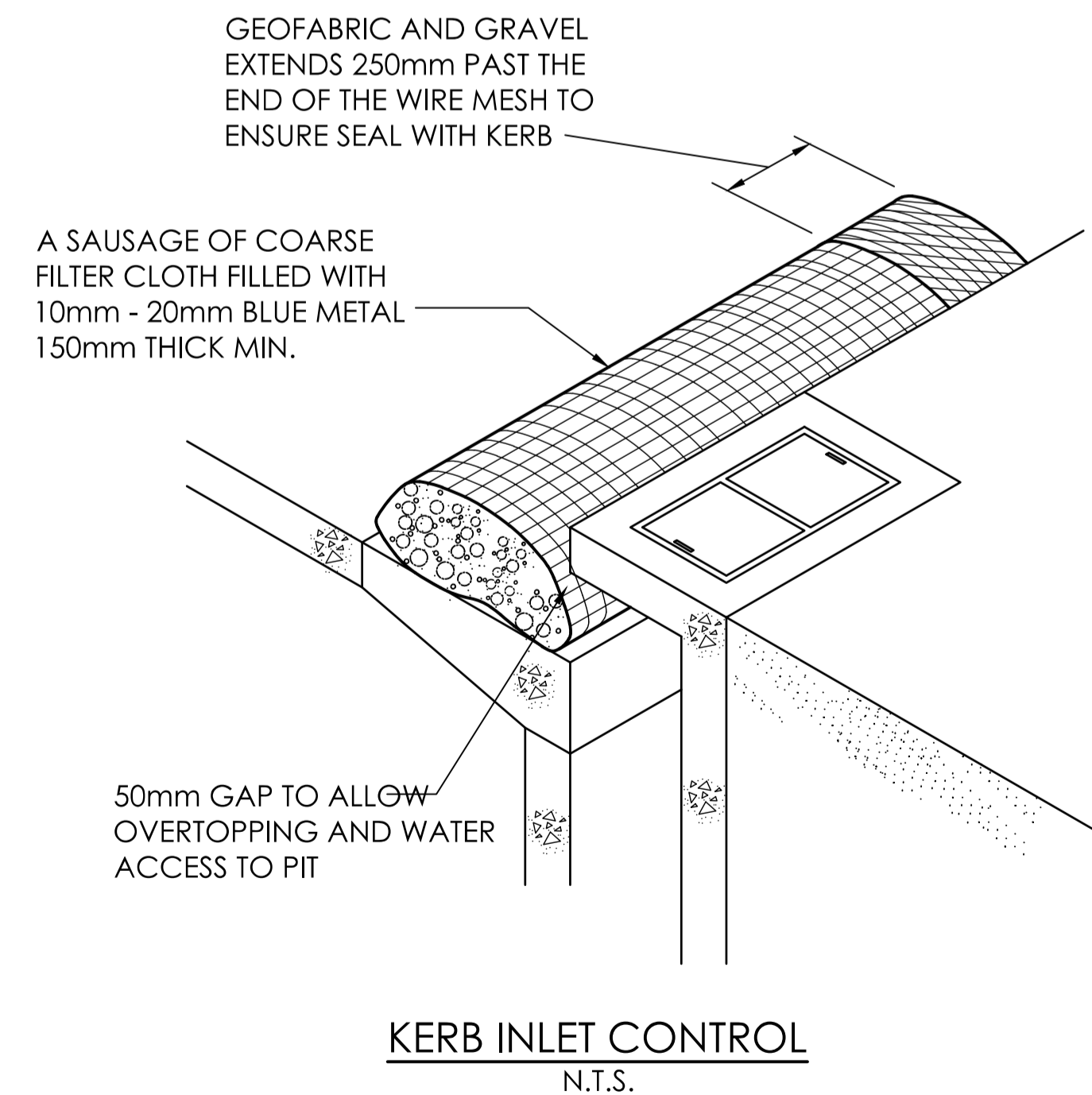
ALL EROSION & SEDIMENT CONTROL MEASURES TO BE INSPECTED & MAINTAINED DAILY BY SITE MANAGER.

MINIMISE DISTURBED AREAS.

ROADS & FOOTPATHS TO BE SWEEPED DAILY.  
NO MUD OR DIRT ALLOWED ON FOOTPATH OR ROAD PAVEMENTS.

BATTERS TO BE STABILISED BY VEGETATING, TURFING OR OTHER APPROVED METHOD WITHIN 30 DAYS OF COMPLETION.

DUST MINIMISATION CONTROL BY WATERING TO BE IMPLEMENTED BY SITE MANAGER AS REQUIRED OR AS PER COUNCIL SPECIFICATIONS.



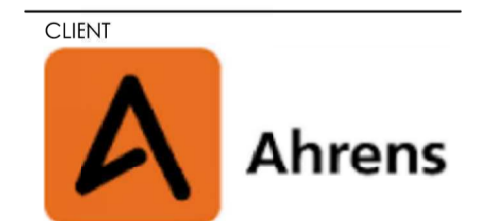
**KERB INLET CONTROL**  
N.T.S.

ISSUED FOR APPROVAL	24/08/2016	0
ISSUED FOR APPROVAL	18/08/2016	A
AMENDMENTS	DATE	ISSUE
STATUS		

**ISSUED FOR APPROVAL**



1300 874 294 | TRIAXIAL.COM.AU  
SUITE 12, LEVEL 14, 327 PITT STREET, SYDNEY 2000  
PO BOX A203, SYDNEY SOUTH, NSW 1235  
SYDNEY | ADELAIDE | BAROSSA | DARWIN | MUDGEE



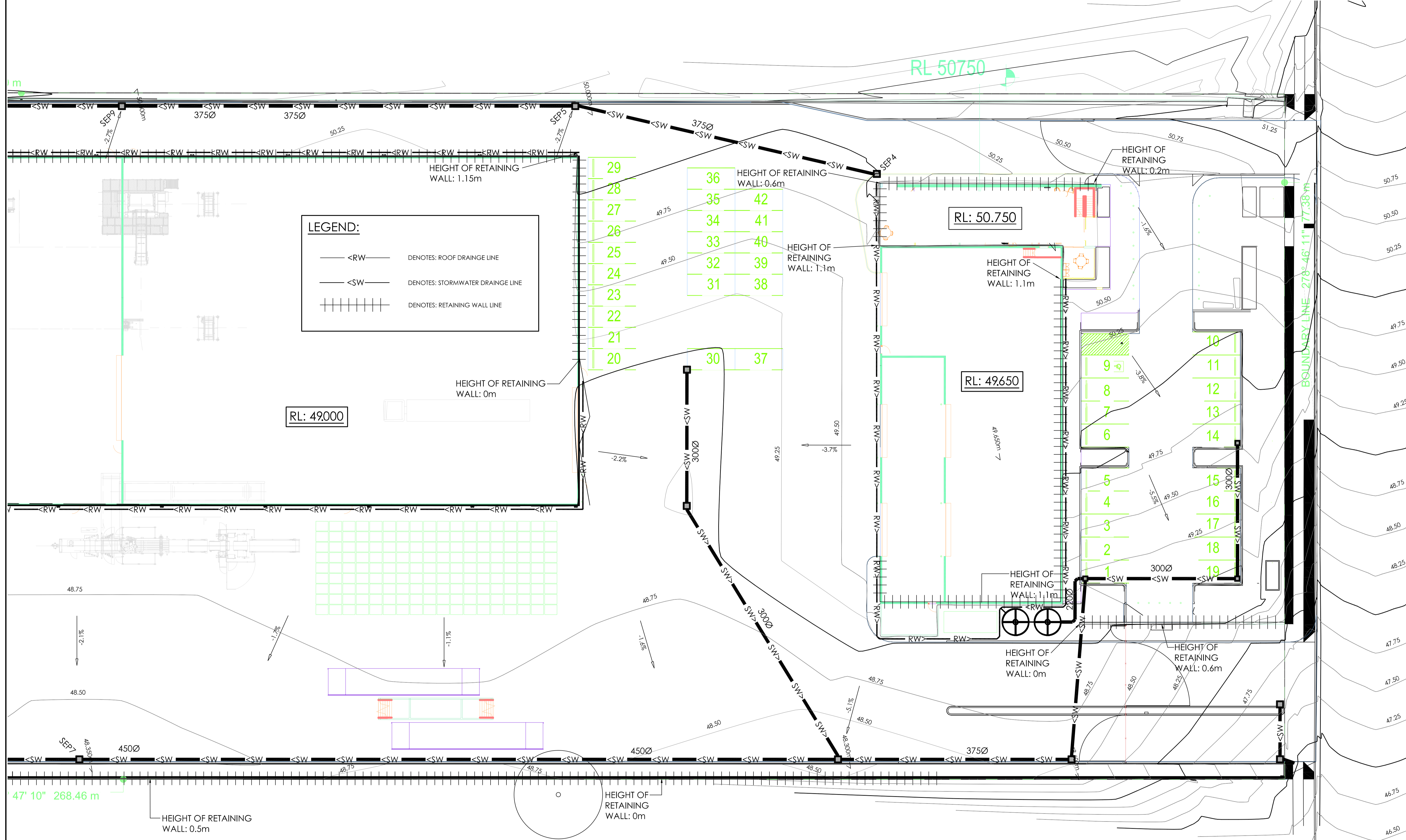
CLIENT  
**RESOURCE Co.**  
35-37 FRANK STREET  
WETHERILL PARK NSW

DESIGNED	DRAWN	DATE	SIZE	CAD REF
D.V.	F.N.	17.08.16	A1	TX-11972.00-C01

DRAWING TITLE  
**EROSION & SEDIMENT CONTROL DETAILS**

DRAWING No  
**TX-11972.00 C03 0**

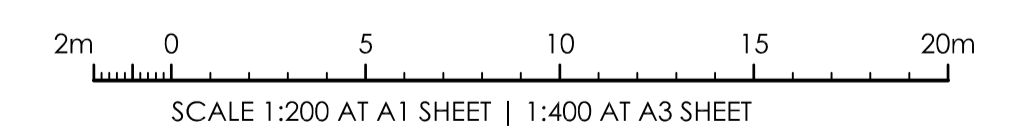




**LEGEND:**

- <RW> DENOTES: ROOF DRAINAGE LINE
- <SW> DENOTES: STORMWATER DRAINAGE LINE
- ||||| DENOTES: RETAINING WALL LINE

**STORMWATER PLAN**  
SCALE 1:200



ISSUED FOR APPROVAL  
ISSUED FOR APPROVAL  
AMENDMENTS  
STATUS  
**ISSUED FOR APPROVAL**

ARCHITECT  
CLIENT  
PROJECT  
RESOURCE CO.  
35-37 FRANK STREET  
WETHERILL PARK N.S.W.



DESIGNED D.V.  
DRAWN D.F.  
DATE 19/08/16  
SIZE A1/A3  
CAD REF TX-11972.00-C01

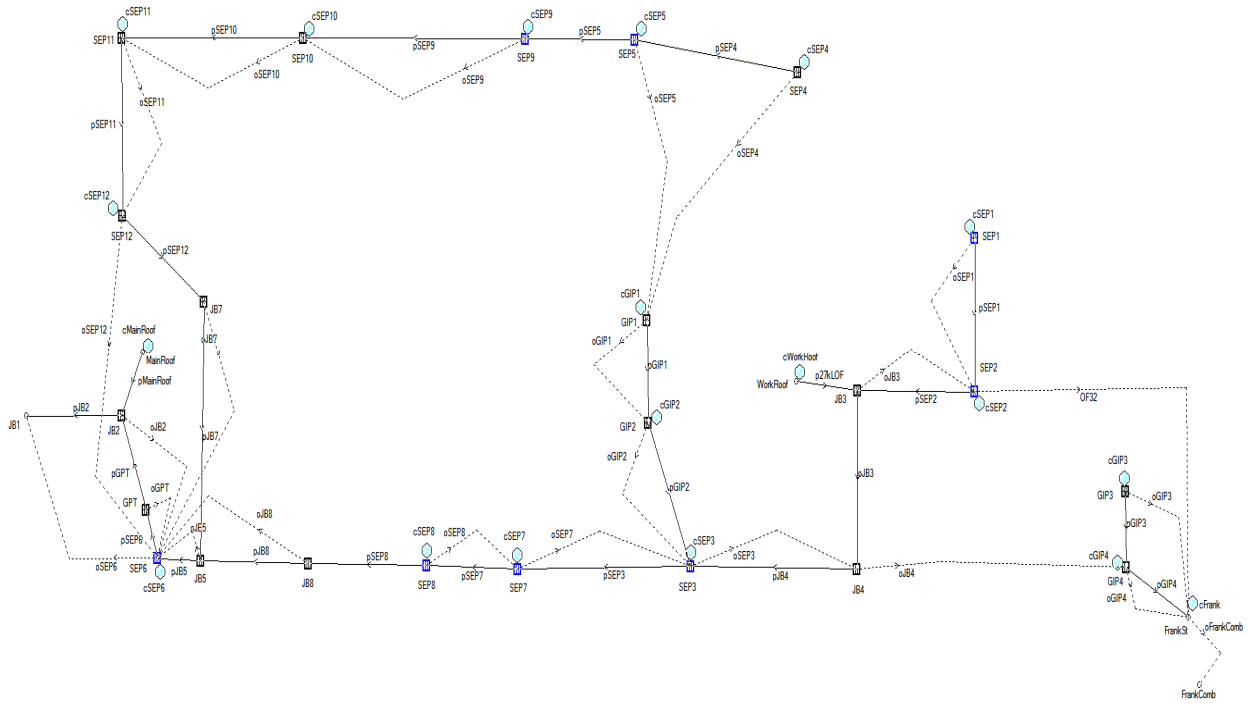


1300 874 294 | TRIAXIAL.COM.AU  
SUITE 12, LEVEL 14, 327 PITT STREET, SYDNEY 2000  
PO BOX A203, SYDNEY SOUTH, NSW 1235  
SYDNEY | ADELAIDE | BAROSSA | DARWIN | MUDGEEE

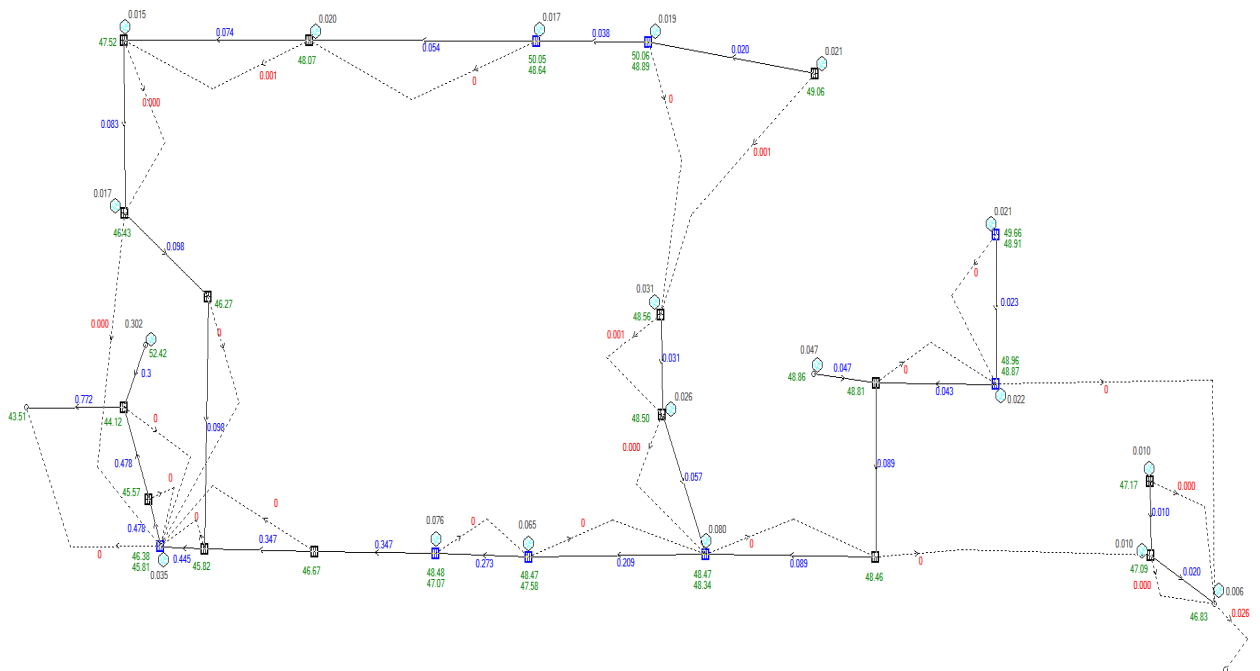
DRAWING TITLE  
**STORMWATER PLAN**  
DRAWING No  
**TX-11972.00 - C11**  
ISSUE  
**0**



## APPENDIX B DRAINS MODELLING RESULTS



**DRAINS Model Setup (above)**



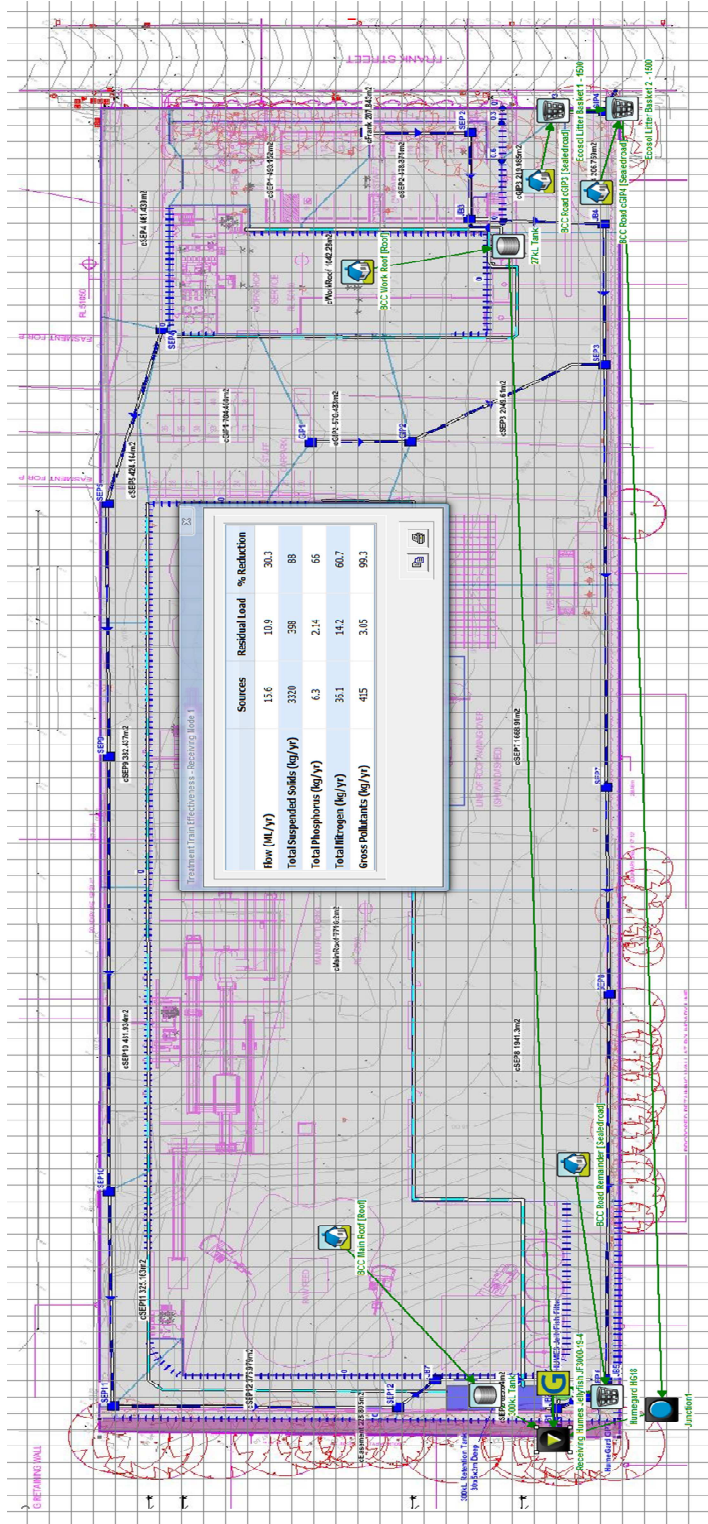
**20-year ARI DRAINS Modelling Results (above)**

SYDNEY | ADELAIDE | BAROSSA | DARWIN | MUDGEE





# APPENDIX C MUSIC MODELLING RESULTS



SYDNEY | ADELAIDE | BAROSSA | DARWIN | MUDGEE