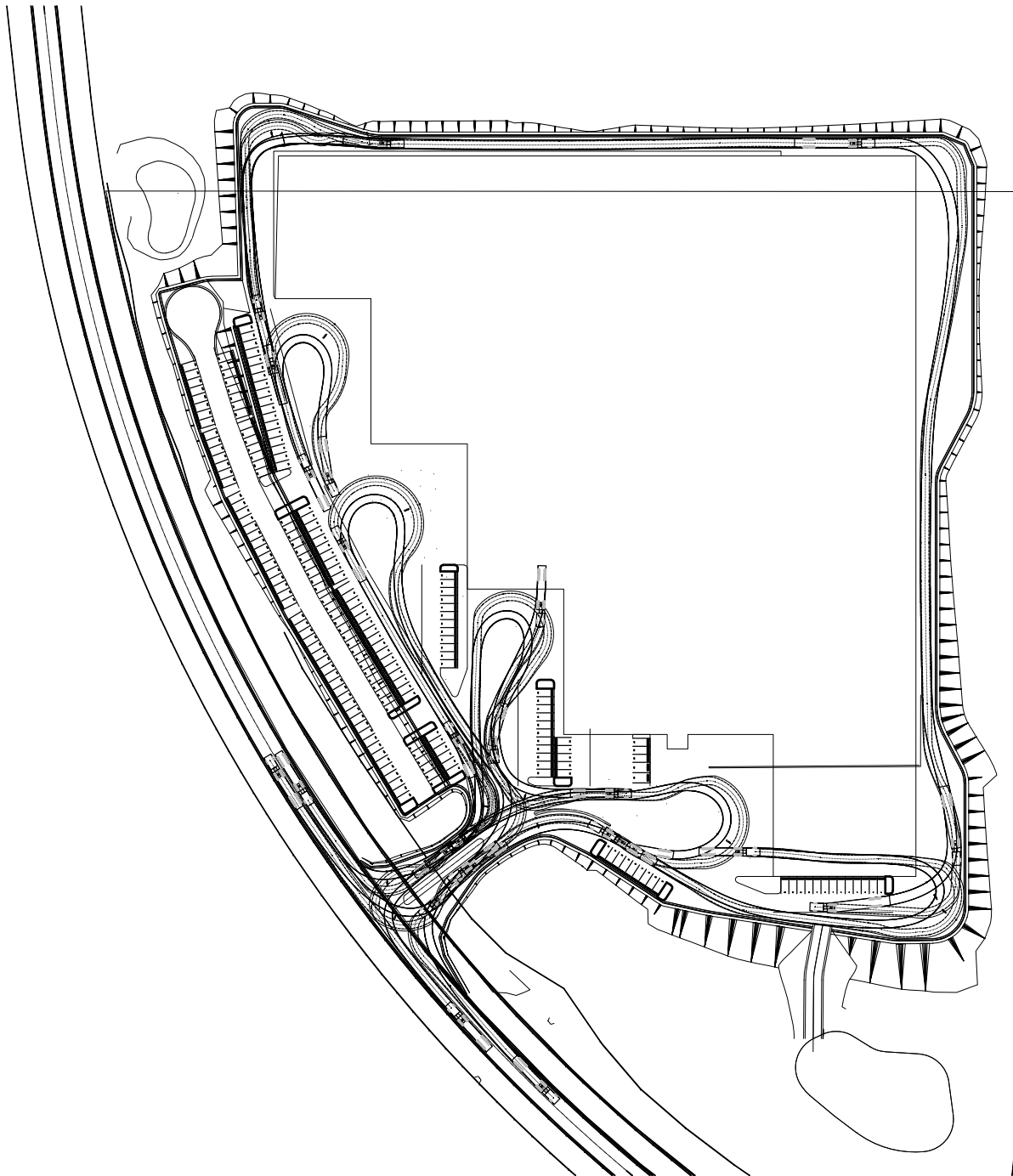




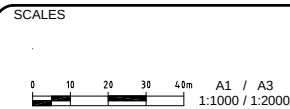
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Adelaide, Brisbane, Melbourne, Newcastle, Perth, Singleton and Sydney
Suite 1, 3rd Floor
55 Bolton Street
Newcastle NSW 2300
PO BOX 1162
Newcastle NSW 2300
Australia

Telephone +61 2 4929 3900
Facsimile +61 2 4929 7299
Email: newcastle@pb.com.au

CLIENT
WIPS MANAGEMENT

PROJECT				
WIPS MANAGEMENT				
DEVELOPMENT APPLICATION TRUCK MOVEMENT PLAN				
PROJECT No.	TASK	DISCIPLINE	NUMBER	REV.
2122647A	- 003	- CIV	- 0007	A1



1. BACKFILL IS TO BE GRANULAR, FREE DRAINING AND COMPACTED
2. FOUNDATION IS TO BE APPROVED FOR A SAFE BEARING CAPACITY OF 200kPa PRIOR TO CONSTRUCTION
3. WHERE THE SURFACE SLOPE OF RETAINED MATERIAL IS BETWEEN 10:1 AND 4:1 THE WALL BASE DIMENSION IS TO BE INCREASED BY 0.5 METRES.
4. ROCK IS TO BE SOUND DURABLE SANDSTONE OR OTHER APPROVED MATERIAL AND AT LEAST 0.5 SQUARE METRES PLAN AREA.
5. A CONTINUOUS 100 MM DIA. SUBSOIL DRAIN IS TO BE INSTALLED AT THE REAR OF THE WALL WHERE THE WALL HEIGHT EXCEEDS 3.0M OR WHERE THE WALL FOUNDATION CONSISTS OF OTHER THAN ROCK.
6. ALL SURFACE RUNOFF SHALL BE DIRECTED AWAY FROM THE BACK OF THE WALL SO AS TO PREVENT INFILTRATION OF SUCH SURFACE RUNOFF INTO THE GRANULAR BACKFILL.
IN THE CASE OF WALLS FOUNDED ON SOIL THE SURFACE RUNOFF SHALL BE DIRECTED SO AS TO PREVENT EROSION AND POSSIBLE UNDERCUTTING ALONG TOE OF THE WALL.
7. ROCKS SHALL BE MORTARED AND PLACED IN SUCH A MANNER THAT THEY ARE STABLE AND INTERLOCKING AND LAID ROUGHLY COURSED AND BEDDED ON THEIR BROADEST BASE. ALL VERTICAL JOINTS BETWEEN BLOCKS SHALL BE BROKEN.
8. MORTARED JOINTS ARE NOT TO BE VISIBLE FROM FACE OF STRUCTURE.
9. WHERE WALL IS FOUNDED ON BEDROCK THE PREPARATION OF THE FOUNDATION SHALL INCLUDE THE REMOVAL OF ALL LOOSE ROCK AND SOIL. ANY IRREGULARITIES IN THE LEVEL OF THE BEDROCK SHALL BE FILLED WITH MASS CONCRETE OR RIPPED ROCK COMPACTED TO A MINIMUM DRY DENSITY OF 98% STANDARD.
10. WHERE THE WALL IS FOUNDED ON SOIL THE EXPOSED FOUNDATION SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 300mm. ALL FILL SHOULD BE PLACED IN LAYERS NOT EXCEEDING 250mm LOOSE AND COMPACTED TO A DRY DENSITY OF GREATER THAN 95% STANDARD COMPACTION. FILL FOR ROAD EMBANKMENTS SHOULD BE COMPACTED TO ACHIEVE A DENSITY RATIO OF AT LEAST 98% STANDARD MAXIMUM DRY DENSITY (SMDD) AT WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT (SOMC) TO WITHIN 0.3m OF SUBGRADE LEVEL. AT LEAST 100% SMDD SHOULD BE ACHIEVED WITHIN 0.3 M OF SUBGRADE LEVEL. THE CBR OF THE TOP 300mm OF COMPACTED FILL SHOULD NOT BE LESS THAN THE CBR VALUE ADOPTED FOR THE PAVEMENT DESIGN. SUBGRADE FILL SHOULD BE INSPECTED BY A GEOTECHNICAL ENGINEER TO CONFIRM SUITABILITY AND CONFIRMATORY CBR TESTING OF FILL MATERIAL MAY BE REQUIRED FOLLOWING THIS INSPECTION.



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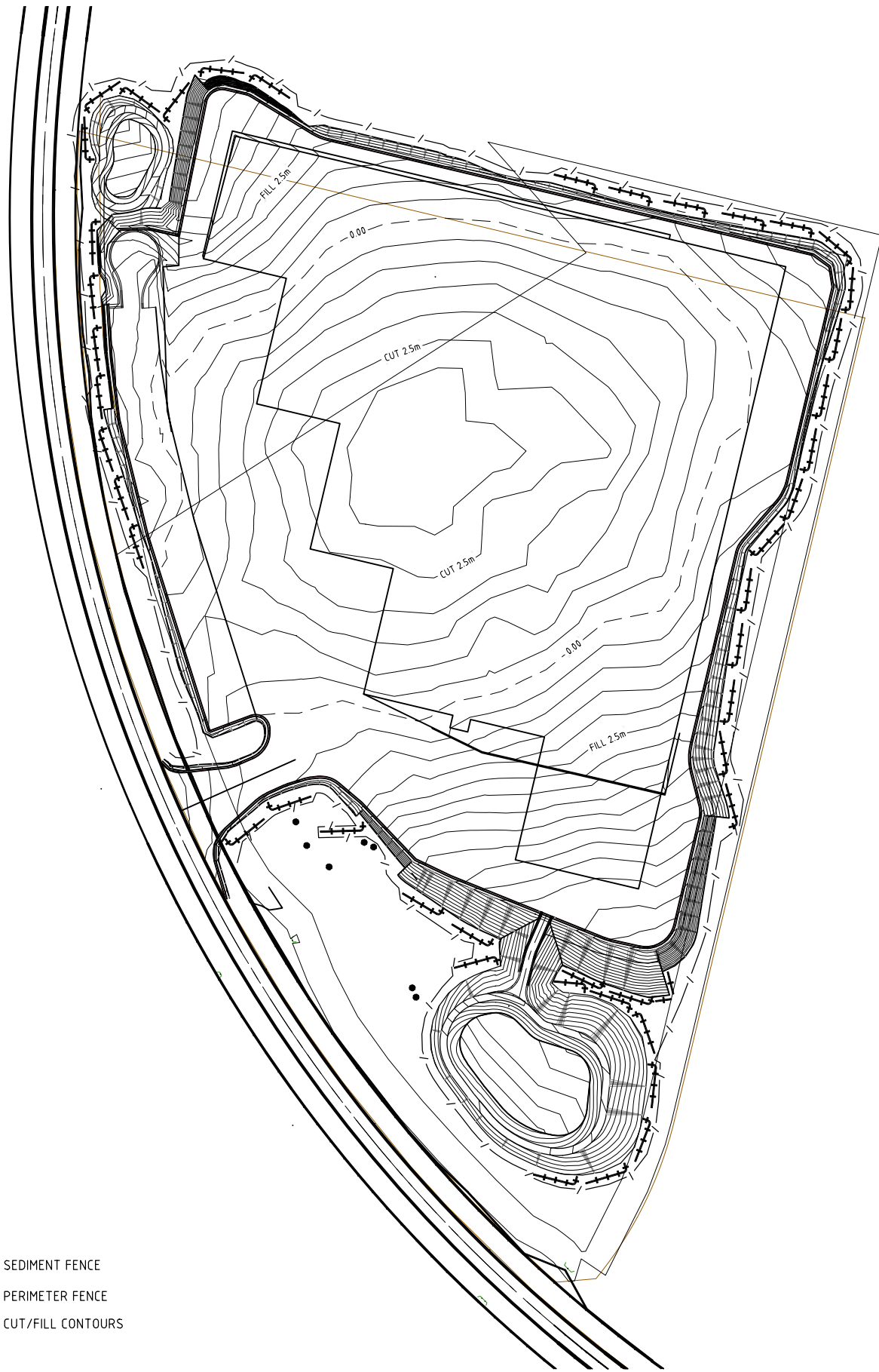
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Facsimile +61 2 4929 7299
Email: newcastle@pb.com.au

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WIPS MANAGEMENT

PROJECT	WIPS MANAGEMENT
	DEVELOPMENT APPLICATION
	TYPICAL SECTIONS

PROJECT No.	TASK	DISCIPLINE	NUMBER	REV.
2122647A	- 003	- CIV	- 0008	A1

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LEGEND:

- SEDIMENT FENCE
- PERIMETER FENCE
- CUT/FILL CONTOURS

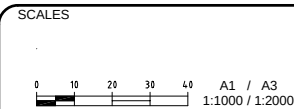
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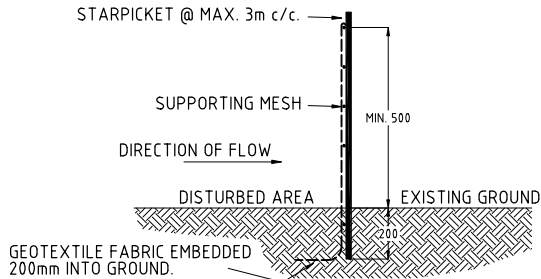
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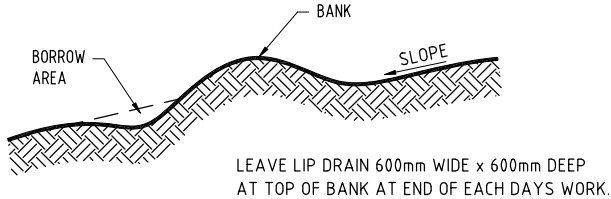
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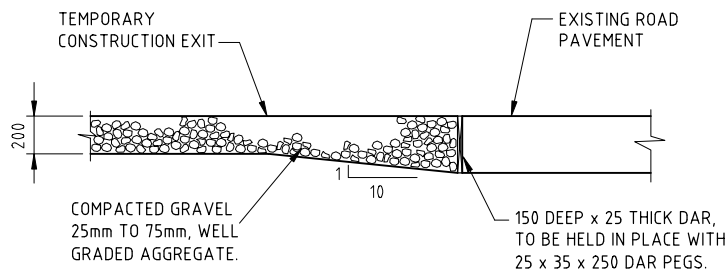
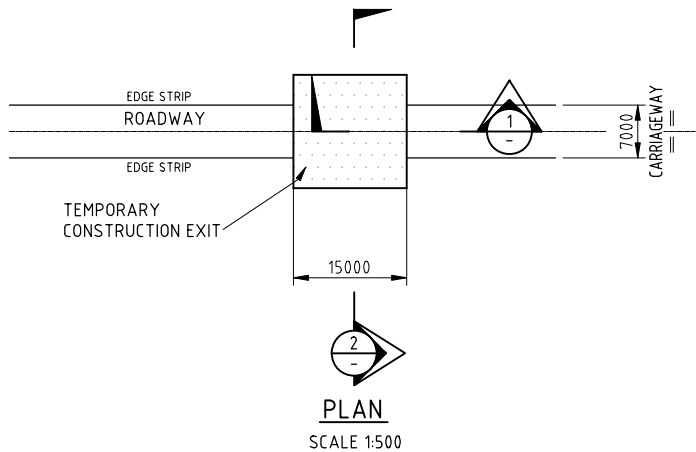
PROJECT				
WIPS MANAGEMENT				
DEVELOPMENT APPLICATION EROSION AND SEDIMENT CONTROL PLAN				
PROJECT No.	TASK	DISCIPLINE	NUMBER	REV.
2122647A	- 003	- CIV	- 0009	A1



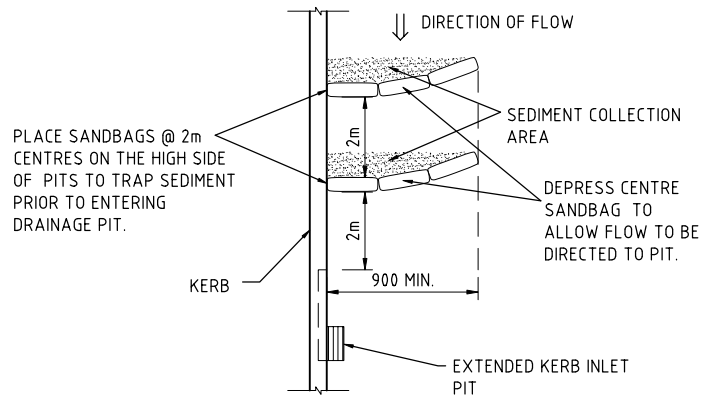
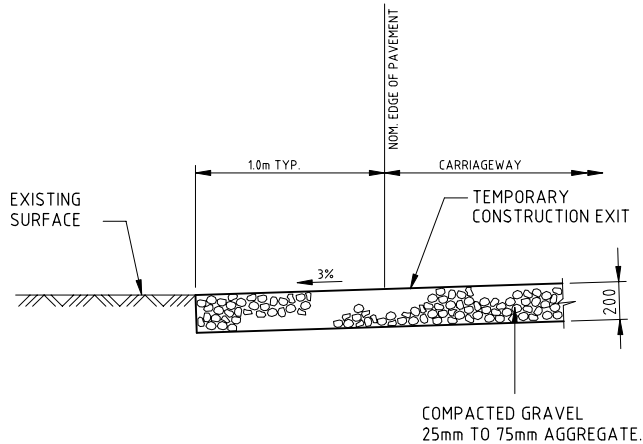
SEDIMENT FENCE



LIP DRAIN



SHAKER HUMP DETAILS



SEDIMENT PROTECTION FOR STORMWATER PIT
N.T.S.

EROSION CONTROL

1. EROSION CONTROL DEVICES TO BE INSTALLED BEFORE SITE IS DISTURBED IN ACCORDANCE WITH SITE SPECIFIC SOIL AND WATER MANAGEMENT PLAN (SWMP) AND APPROVED BY COUNCIL INSPECTOR.
2. ALL PERIMETER CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN EARTHWORKS AND/OR CLEARING.
3. BUFFER ZONES ARE TO BE FENCED OFF WITH BARRIER FENCING AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
4. HAY BALE BARRIERS AND GEOFABRIC FENCES ARE TO BE CONSTRUCTED TO TOE OF BATTER PRIOR TO COMMENCEMENT OF EARTHWORKS IMMEDIATELY AFTER CLEARING OF VEGETATION BEFORE REMOVAL OF TOPSOIL.
5. ALL TEMPORARY EARTH BERMS AND DIVERSION EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED & MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
6. CLEAN WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO DRAINAGE SYSTEM.
7. ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING. TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE APPROVED LOCATION.
8. ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR RE-USE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
9. ALL EARTHWORK AREAS SHALL BE ROLLED EACH EVENING TO SEAL THE EARTHWORKS.
10. ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END OF EACH DAYS EARTHWORKS. THE HEIGHT OF THE LIP SHALL BE A MINIMUM OF 200mm.
11. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND MULCHED WITHIN 10 DAYS OF COMPLETION OF FORMATION.
12. UPON COMPLETION OF ALL EARTHWORKS OR AS DIRCTED BY COUNCIL, SOIL CONSERVATION TREATMENTS SHALL BE APPLIED SO AS TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.
13. DENUDED AREAS TO BE REVEGETATED AND STABILISED IN ACCORDANCE WITH THE SWMP AND APPROVED SPECIES LIST WITHIN 14 DAYS OF PRACTICAL COMPLETION OF EARTHWORKS.
14. THE AREA OVER ALL STORMWATER AND SEWER LINES NOT WITHIN ROAD RESERVES IS TO BE MULCHED AND SEEDED IN ACCORDANCE WITH THE APPROVED SPECIES LIST WITHIN 14 DAYS AFTER BACKFILL.
15. NO MORE THAN 150m OF TRENCH IS TO BE OPEN AT ANY ONE TIME.
16. AREAS OVER ELECTRICITY, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE SEEDED AND MULCHED BY THE RELEVANT AUTHORITY WITHIN 14 DAYS AFTER BACKFILL.
17. ALL FOOTPATHS, CYCLEWAYS, BERMS AND BATTERS ARE TO BE TOPSOILED WITH MINIMUM 75mm OF SELECTED SITE TOPSOIL AND SEEDED IN ACCORDANCE WITH THE APPROVED SPECIES LIST.
18. ALL FINAL EROSION PREVENTION MEASURES INCLUDING THE ESTABLISHMENT OF GRASSING ARE TO BE COMPLETED PRIOR TO THE SUBDIVISION FINAL INSPECTION. ALL EROSION DEVICES ARE TO BE MAINTAINED UNTIL THE END OF THE MAINTENANCE PERIOD.

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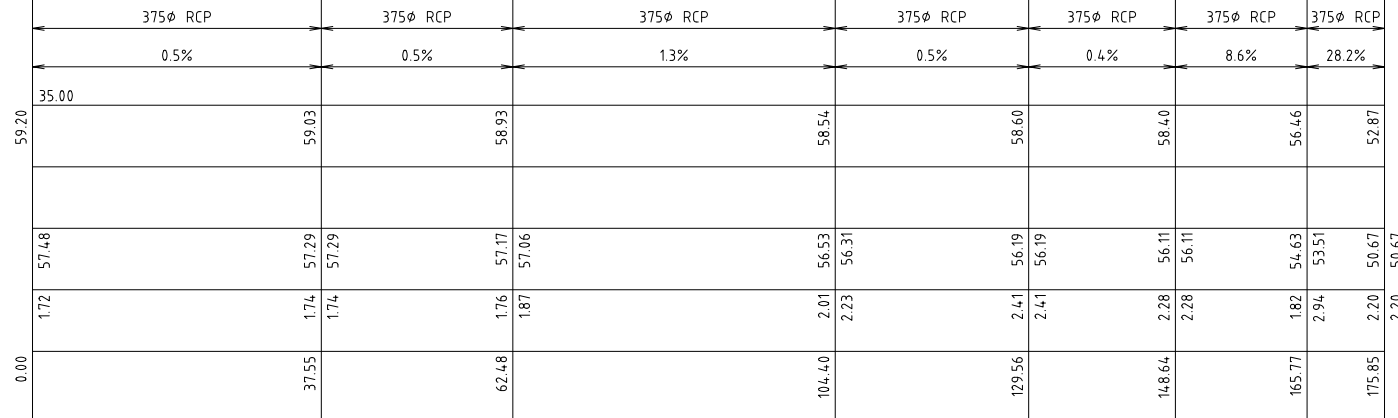
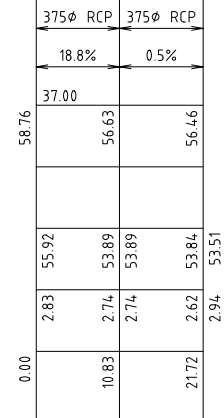
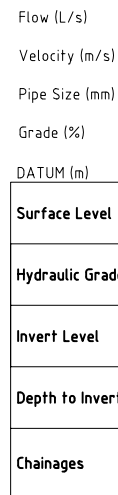
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Adelaide, Brisbane, Melbourne, Newcastle, Perth, Singleton and Sydney
Suite 1, 3rd Floor
55 Bolton Street
Newcastle NSW 2300
PO BOX 1162
Newcastle NSW 2300
Australia

Telephone +61 2 4929 3900
Facsimile +61 2 4929 7299
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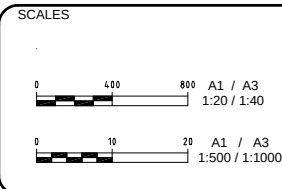
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WIPS MANAGEMENT	WIPS MANAGEMENT
	DEVELOPMENT APPLICATION
	EROSION AND SEDIMENT CONTROL DETAILS
PROJECT No.	TASK
2122647A - 003 - CIV - 0010	0010
NUMBER	REV.
0010	A1



WIPS MANAGEMENT
DEVELOPMENT APPLICATION
STORMWATER LONGITUDINAL SECTIONS
LINES 1, 2 & 3

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55 Bolton Street
Newcastle NSW 2300
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Newcastle NSW 2300
Australia
Telephone +61 2 4929 3900
Facsimile +61 2 4929 7299
Email: newcastle@pb.com.au

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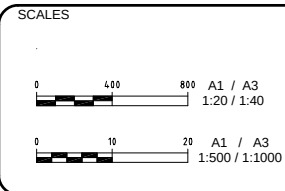
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PROJECT No.	TASK	DISCIPLINE	NUMBER	REV.
2122647A	- 003	- CIV	- 0011	A1



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Suite 1, 3rd Floor
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Newcastle NSW 2300
PO BOX 1162
Newcastle NSW 2300
Australia

ABN 84 797 323 433

Telephone +61 2 4929 3900
Facsimile +61 2 4929 7299
Email: newcastle@pb.com.au

PROJECT					WIPS MANAGEMENT				
DEVELOPMENT APPLICATION									
STORMWATER LONGITUDINAL SECTIONS									
LINES 4, 6 & 7									
PROJECT No.		TASK		DISCIPLINE		NUMBER		REV.	
2122647A		- 003		- CIV		- 0012		A1	

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