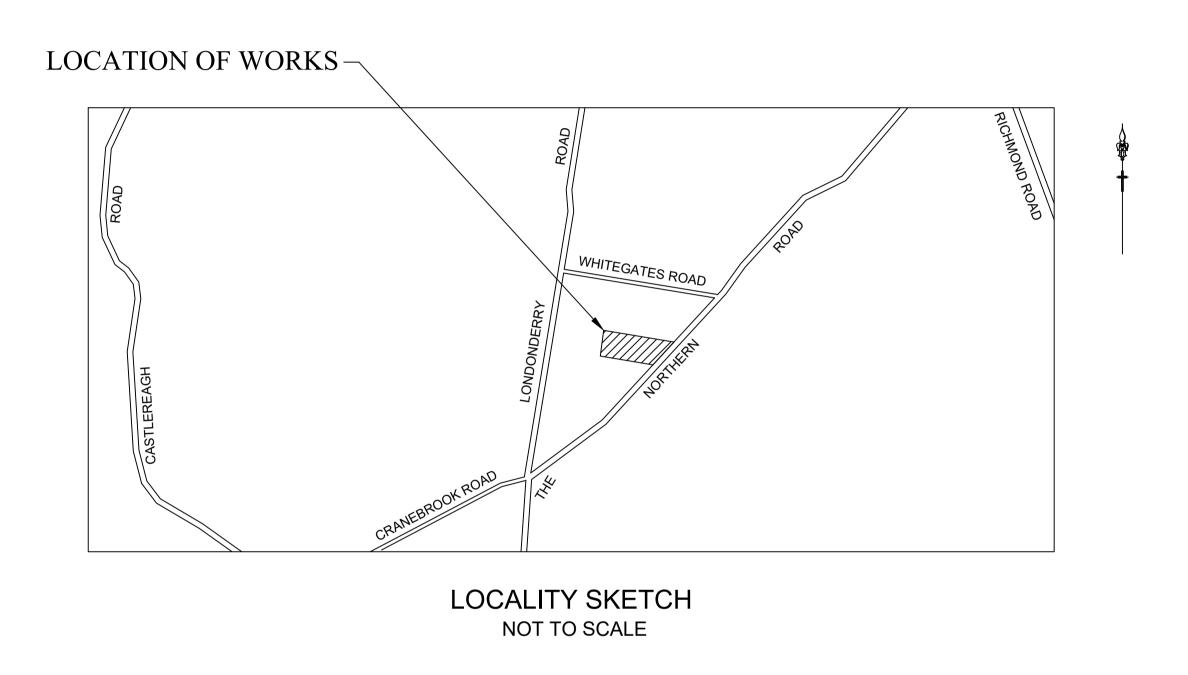
A1 07166C1 REVISION D

# PENRITH CITY COUNCIL PROPOSED MUSHROOM FARM 521 THE NORTHERN ROAD, LONDONDERRY DRIVEWAY, DRAINAGE & DAM DESIGN PLANS

Prepared for: ELF MUSHROOMS Pty. Ltd.



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P: 02 9659 0005 P: 02 4322 0798 Hunter P: 02 4966 8385

barkerryanstewart.com.au mail@barkerryanstewart.com.au © BARKER RYAN STEWART PTY LTD A1 07166C1 REVISION D

#### **GENERAL NOTES**

- 1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH PENRITH CITY COUNCIL'S WORKS SPECIFICATION AND/OR AS DIRECTED BY THEIR REPRESENTATIVE, TO THE BUILDING CODE OF AUSTRALIA, NSW CODE OF PRACTICE AND THE RELEVANT SERVICE CODES AS APPLICABLE.
- 2. BARKER RYAN STEWART DOES NOT ACCEPT ANY LIABILITY FOR INACCURACIES IN THE SERVICE INFORMATION AS SHOWN.
- 3. COUNCIL'S TREE PRESERVATION ORDER MUST BE OBSERVED AND NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT THE PRIOR APPROVAL OF COUNCIL.
- 4. ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE WORK HEALTH & SAFETY ACT 2011 AND ALL RELEVANT OCCUPATIONAL HEALTH & SAFETY POLICIES AND REGULATIONS.
- 5. DIMENSIONS SHALL NOT BE SCALED FROM THE PLANS. CLARIFICATION OF DIMENSIONS SHALL BE SOUGHT FROM THE SUPERINTENDENT OR REFERRED TO THE DESIGNER.
- 6. ALL LEVELS AND DIMENSIONS ARE TO BE CHECKED PRIOR TO THE COMMENCEMENT OF WORKS.
- 7. EXISTING SURFACE, CONTOURS AND LEVELS, STRUCTURES, BENCH MARKS AND BOUNDARIES HAVE BEEN COMPILED FROM DATA SUPPLIED BY THE SURVEYOR.
- 8. SURVEY MARKS SHOWN THUS **\( \Delta \)** SHALL BE MAINTAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE ENGINEER SHALL BE NOTIFIED AND CONSENT RECIEVED PRIOR TO THEIR REMOVAL.
- 9. ALL NEW WORK IS TO MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS.
- 10. THE CONTRACTOR IS NOT TO ENTER UPON NOR DO ANY WORK WITHIN OR ON ADJACENT LANDS WITHOUT THE PRIOR APPROVAL OF THE SUPERINTENDENT AND THE WRITTEN PERMISSION OF THE
- 11. SEDIMENT MEASURES SHALL BE IMPLEMENTED PRIOR TO SOIL DISTURBANCE IN KEEPING WITH THE 4th EDITION OF LANDCOMS "SOILS AND CONSTRUCTION MANAGING URBAN STORMWATER" MARCH 2004 TO THE SATISFACTION OF COUNCIL'S REPRESENTATIVE AND AS SHOWN IN THESE DRAWINGS.
- 12. THE CONTRACTOR SHALL CLEAR AND DISPOSE OF ONLY THOSE TREES THAT ARE CONDEMNED BY THE PLANS. COUNCIL'S TREE PRESERVATION ORDER SHALL BE OBSERVED AND NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT PRIOR APPROVAL.
- 13. THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES, OUT HOUSES, CAR BODIES, DEBRIS, ETC. THE CONTRACTOR SHALL NOT DISPOSE OF ANY DEBRIS BY BURNING OFF IN AN OPEN FIRE

#### SERVICE NOTES

- 1. THE CONTRACTOR IS TO IDENTIFY, LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION WORKS AND WHERE NECESSARY MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST WHERE NECESSARY.
- 2. BARKER RYAN STEWART DOES NOT ACCEPT ANY LIABILITY FOR INACCURACIES IN THE SERVICE INFORMATION AS SHOWN.
- 3. CONDUITS SHALL BE LAID AFTER POSITIONS HAVE BEEN DETERMINED BY THE RELEVANT AUTHORITIES AND BEFORE FINAL A.C. IS LAID
- 4. POSITION OF CONDUITS SHALL BE MARKED ON THE KERB.
- 5. THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO THE ADJOINING PROPERTIES.
- 6. CARE SHALL BE TAKEN WHEN EXCAVATING NEAR EXISTING SERVICES. NO MECHANICAL EXCAVATION SHALL BE MADE OVER TELSTRA OR ELECTRICAL SERVICES, EXCAVATE BY HAND ONLY IN THESE AREAS

#### **EARTHWORKS NOTES**

- 1. UNSOUND MATERIALS AS DETERMINED BY THE PRINCIPALS REPRESENTATIVE SHALL BE REMOVED FROM ROADS AND LOTS PRIOR TO ANY FILLING.
- 2. ALL SITE REGRADING AREAS SHALL BE GRADED TO THE SATISFACTION OF COUNCIL'S REPRESENTATIVE. THE CONTRACTOR SHALL TAKE LEVELS ON THE EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING ANY FILL OPERATIONS.
- 3. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED OR DISPOSED OF IN ACCORDANCE WITH THE CONTRACT, OR AS DIRECTED BY THE SUPERINTENDENT.
- 4. ALL SITE FILLING SHALL BE PLACED IN LAYERS NOT EXCEEDING 300mm AND COMPACTED IN ACCORDANCE WITH COUNCIL'S SPECIFICATION AND BE TESTED AT THE REQUIRED INTERAVLS BY AN APPROVED N.A.T.A. GEOTECHNICAL LABORATORY.
- 5. MINIMUM 150mm THICK TOPSOIL SHALL BE SPREAD ON ALL FOOTPATHS, BERMS, BATTERS AND SITE REGRADING AREAS. EXCESS TOPSOIL SHALL BE DISPOSED OF AS DIRECTED BY THE SUPERINTENDENT.
- 6. ALL LAND DISTURBED BY EARTHWORKS SHALL BE SPRAY-GRASSED, OR SIMILARLY TREATED TO ESTABLISH GRASS COVER. SEED MIXTURES ARE TO BE APPROVED BY COUNCIL PRIOR TO SPRAYING. ALL GRASSED AREAS SHALL BE REGULARLY WATERED AND MAINTAINED UNTIL EXPIRATION OF THE MAINTENANCE PERIOD.
- 7. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL THROUGHOUT THE DURATION OF THE PROJECT.

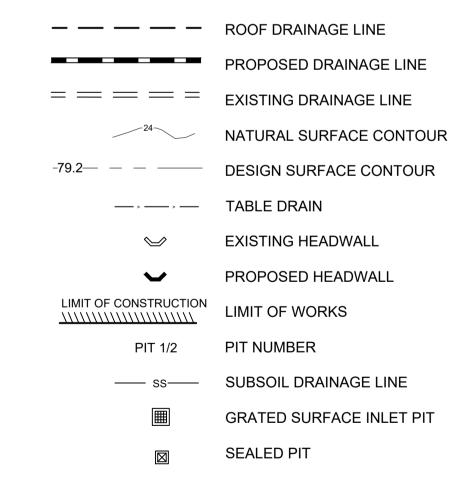
#### **DRAINAGE NOTES**

- 1. ALL PITS DEEPER THAN 1.2m SHALL HAVE STEP IRONS PROVIDED IN ACCORDANCE WITH COUNCIL'S STANDARDS.
- 2. ALL DRAINAGE LINES THROUGH LOTS SHALL BE CONTAINED WITHIN THEIR EASEMENTS AND CONFORM WITH COUNCIL'S STANDARDS.
- 3. ALL DRAINAGE LINES ON HIGH SIDE AND UNDER ROADS SHALL BE BACKFILLEDWITH SHARP SAND AND HAVE 3.0m OF AGRICULTURAL LINE WRAPPED IN AN APPROVED FILTER FABRIC, DISCHARGING INTO THE DOWNSTREAM PIT
- 4. SUBSOIL DRAINS SHALL BE CONSTRUCTED TO THE SATISFACTION OF COUNCIL'S REPRESENTATIVE.
- 5. PRECAST KERB INLET LINTELS SHALL BE USED ON GULLY PITS. GRATES SHALL BE "WELDLOK" TYPE GG 78-51 OR APPROVED EQUIVALENT.
- 6. ON COMPLETION OF PIPE INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.
- 7. TRENCH WIDTHS ARE TO BE KEPT TO A MINIMUM CONSISTENT WITH THE LAYING AND BEDDING OF THE RELEVANT SERVICE AND CONSTRUCTION OF PERSONNEL ACCESS WAYS AND PITS. REFER TO AUTHORITIES STANDARDS FOR MINIMUM TRENCH WIDTHS. STANDARD TRENCH WIDTHS ARE THE DIMENSIONS OF UNSUPPORTED TRENCHES. SUPPORT EXCAVATIONS TO THE REQUIREMENTS OF THE CONSTRUCTION SAFETY REGULATIONS 1950 UNDER THE CONSTRUCTION SAFETY ACT 1912 (AS
- 8. PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH AS3500.3-2003 PLUMBING AND DRAINAGE STORMWATER DRAINAGE STANDARD UNLESS OTHERWISE SPECIFIED BY THE LOCAL COUNCIL OR AUTHORITY.
- 9. PITS SIZES IN ACCORDANCE WITH AS3500.3-2003 ARE TO BE:
- 450 x 450mm WHERE THE DEPTH IS LESS THAN 600mm 600 x 600mm WHERE THE DEPTH IS 600 900mm
- 600 x 900mm WHERE THE DEPTH IS 900 1200mm
- 900 x 900mm WHERE THE DEPTH IS GREATER THAN 1200mm
- 10. IF A PIT IS SHOWN ON THE KERB ALIGNMENT IT IS REQUIRED TO BE CONSTRUCTED AS A KERB INLET PIT UNLESS OTHERWISE NOTED.
- 11. BACKFILL SERVICE TRENCHES TO REQUIREMENTS WITHOUT DELAY FOR THE SECTION OF PIPE THAT HAS BEEN COMPLETED AND APPROVED, IF POSSIBLE ON THE SAME WORKING DAY.

#### **ROADWORKS NOTES**

- 1. PROVIDE VEHICULAR ENTRIES IN KERB AND GUTTER WHERE SHOWN OR WHERE DIRECTED BY THE SUPERINTENDANT.
- 2. GUIDE POSTS SHALL BE 100mm X 50mm HARDWOOD, PAINTED WHITE WITH REFLECTORS.
- 3. ERECT STREET NAME SIGNS, CONDUIT WARNING SIGNS AND NO THROUGH ROAD SIGNS WHERE SHOWN OR WHERE DIRECTED BY COUNCIL'S REPRESENTATIVE.

#### LEGEND

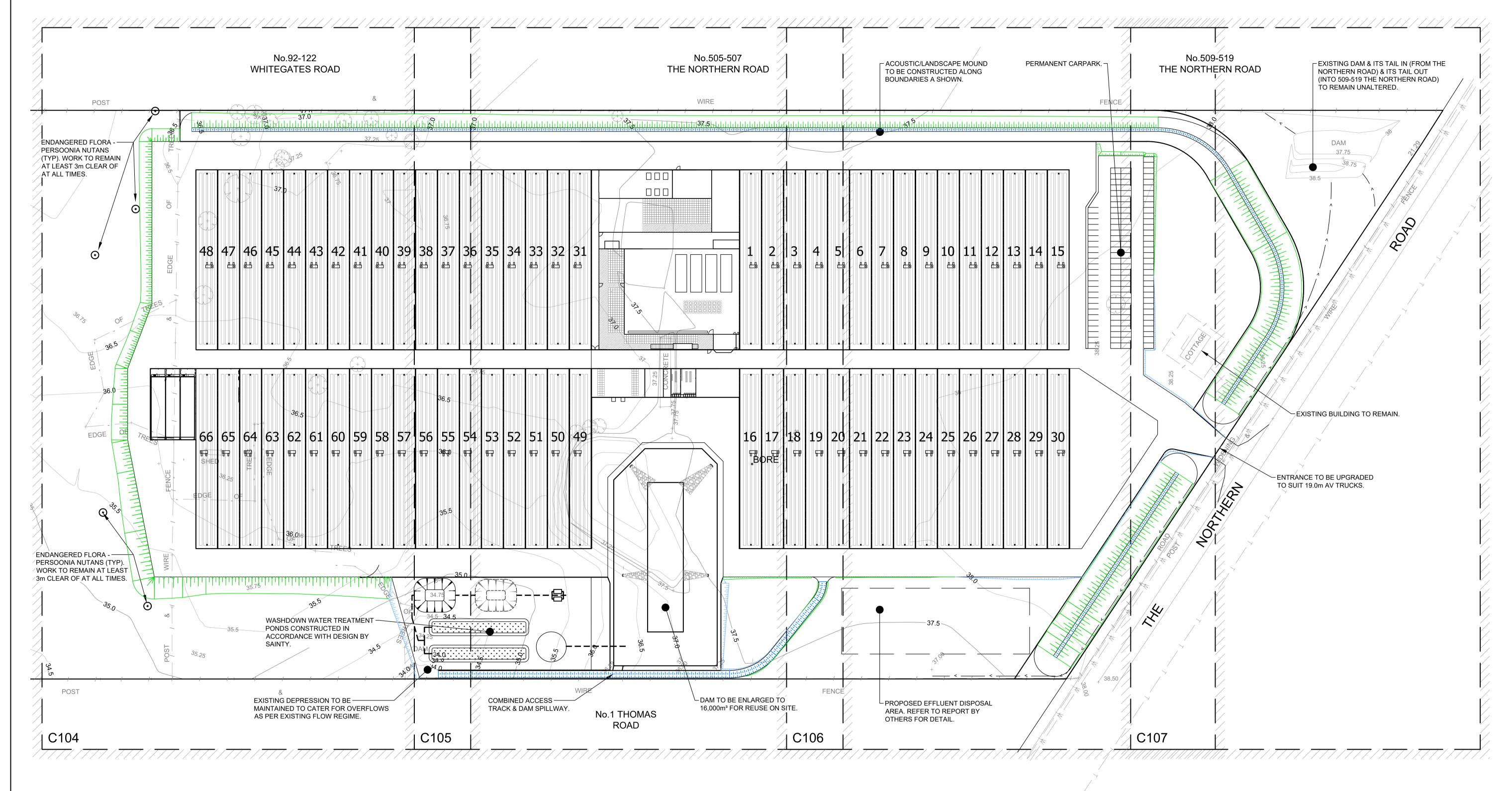




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**METRES** 

D	XX/02/16	WIDEN EXTERNAL ROAD WIDTH
С	XX/12/15	CLIENT COMMENTS
В	01/12/15	REVISED ARCHITECTURAL LAYOUT
Α	22/10/15	ISSUED FOR COMMENTS
No	DATE	AMENDMENT

≥ Bo	arker Ry	yanStewart
Sydney	Central Coast	ABN: 26 134 067 842
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Client:

PROPOSED MUSHROOM FARM 521 THE NORTHERN ROAD, LONDONDERRY
SITE LAYOUT PLAN

Scales: Plan 1:1000 Horiz. Vert. X-Sect.

Datum: A.H.D.

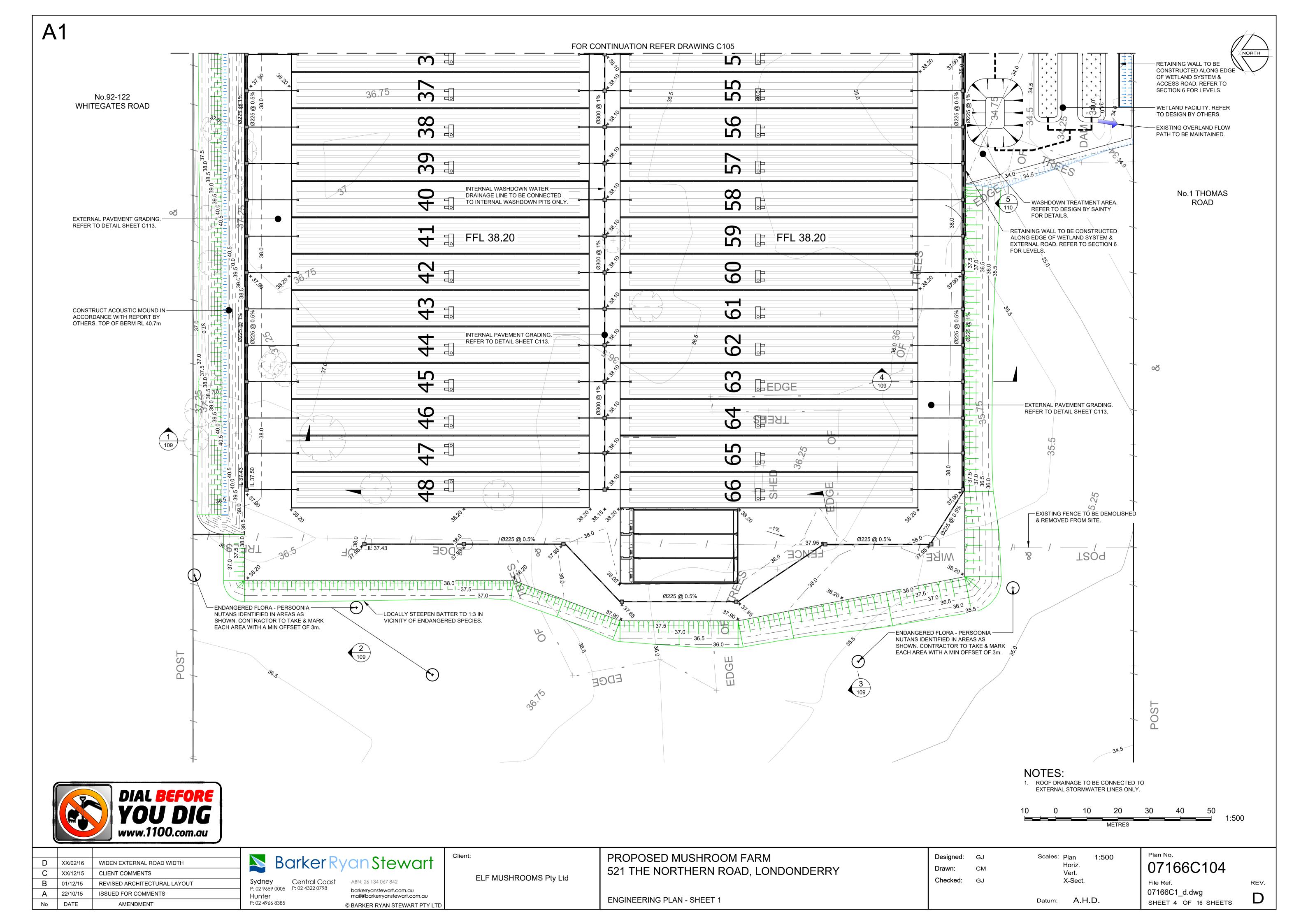
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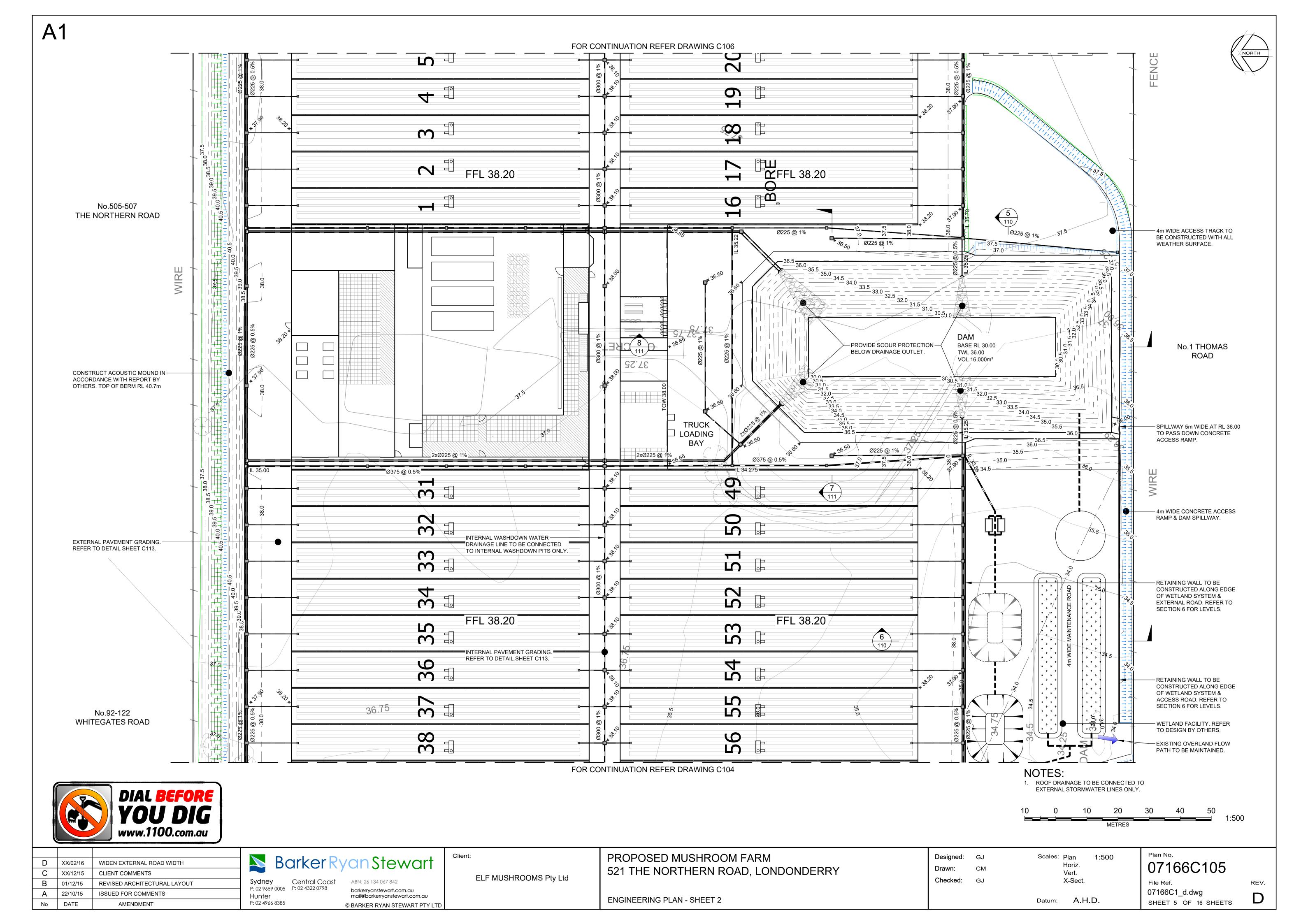
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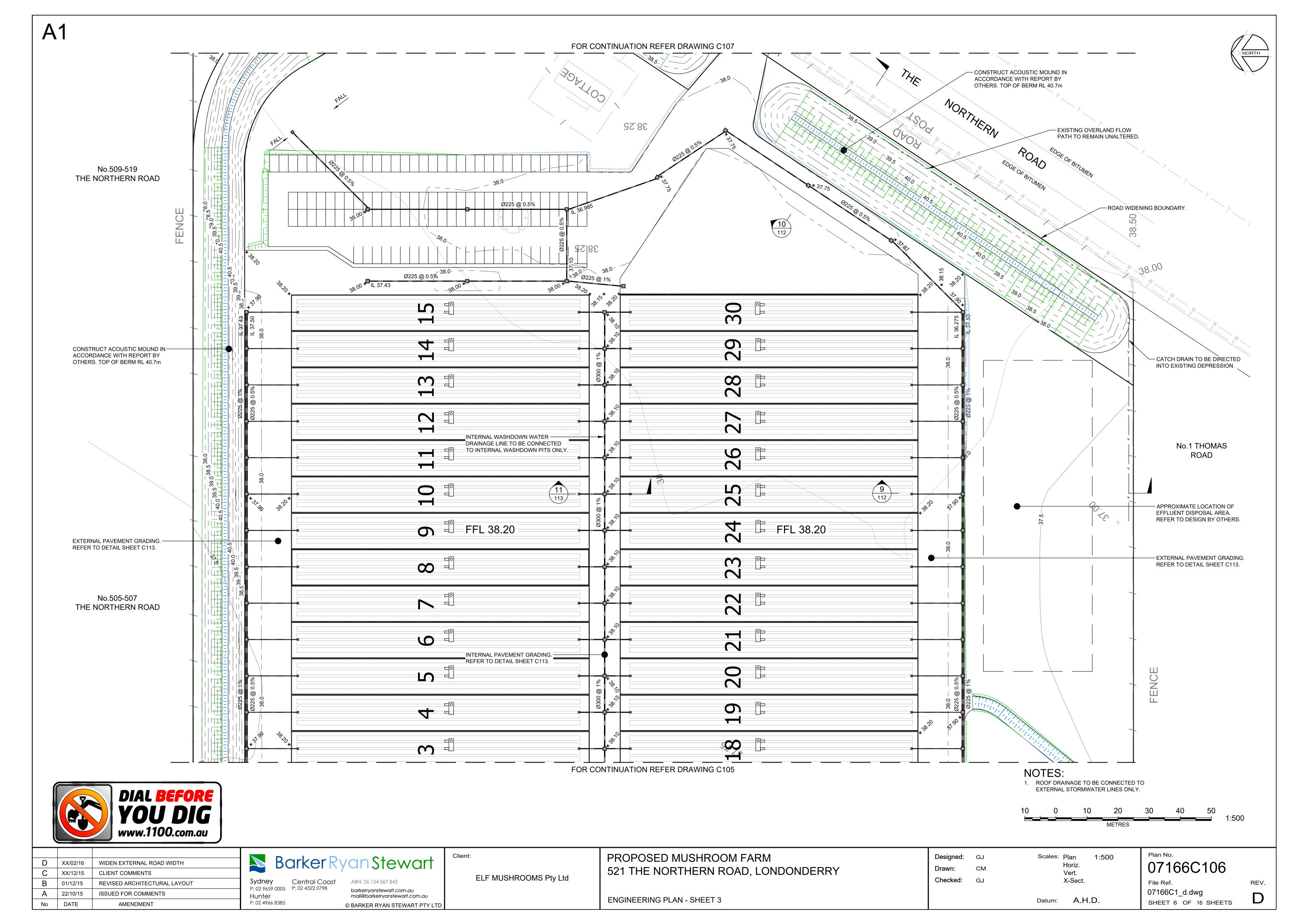
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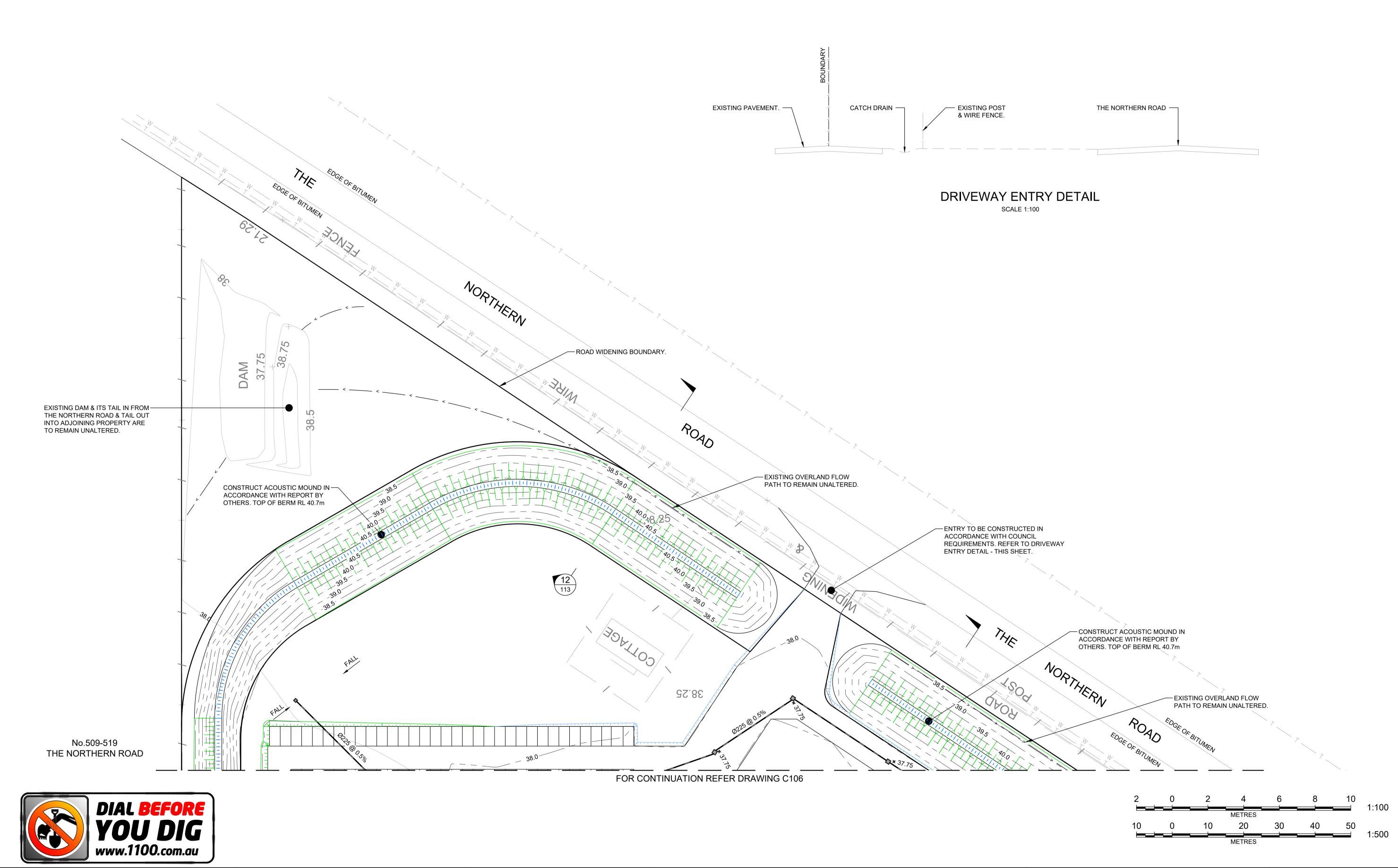
SHEET 3 OF 16 SHEETS











WIDEN EXTERNAL ROAD WIDTH XX/02/16 XX/12/15 **CLIENT COMMENTS** 01/12/15 REVISED ARCHITECTURAL LAYOUT ISSUED FOR COMMENTS DATE **AMENDMENT** 

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PROPOSED MUSHROOM FARM 521 THE NORTHERN ROAD, LONDONDERRY **ENGINEERING PLAN - SHEET 4** 

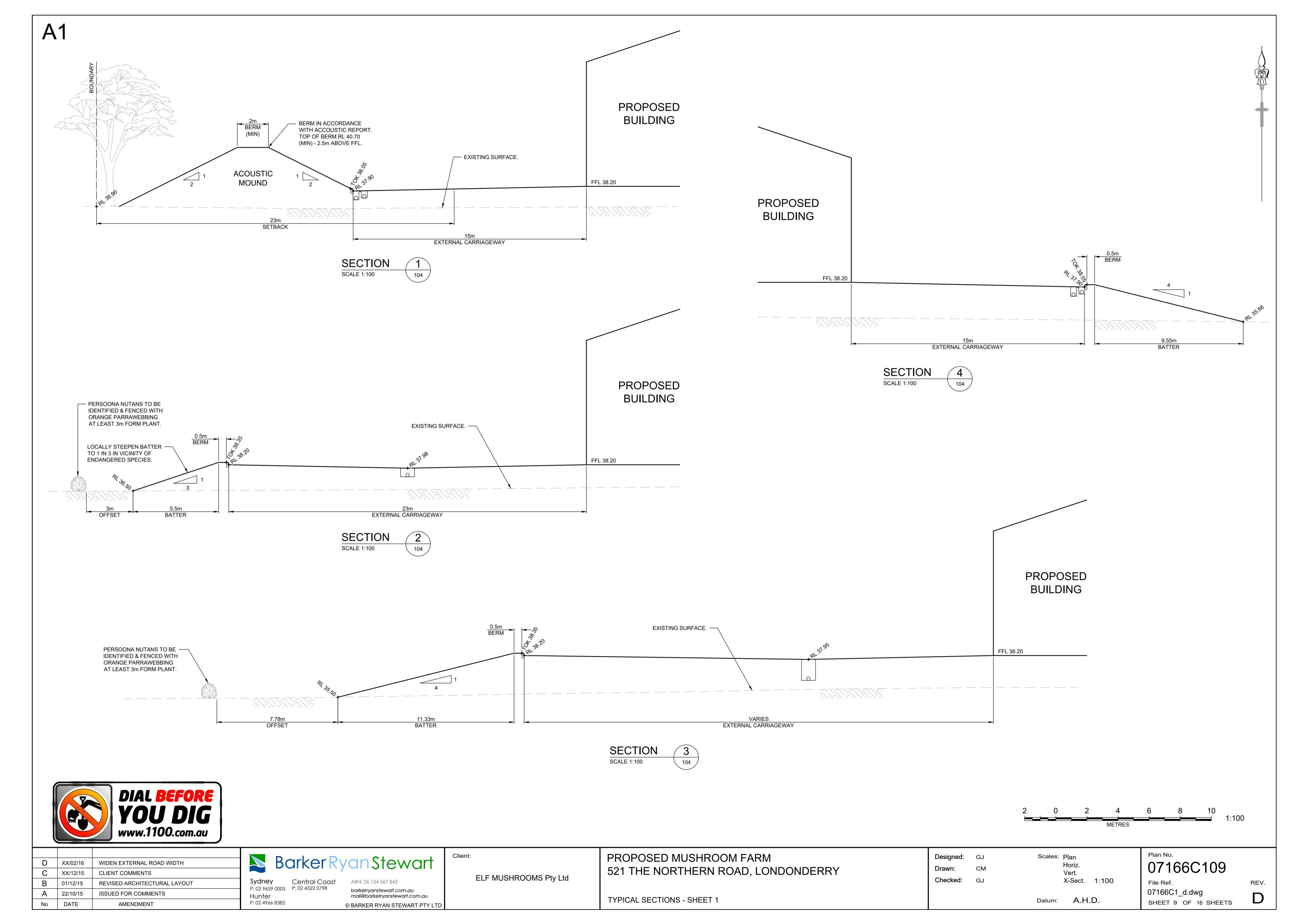
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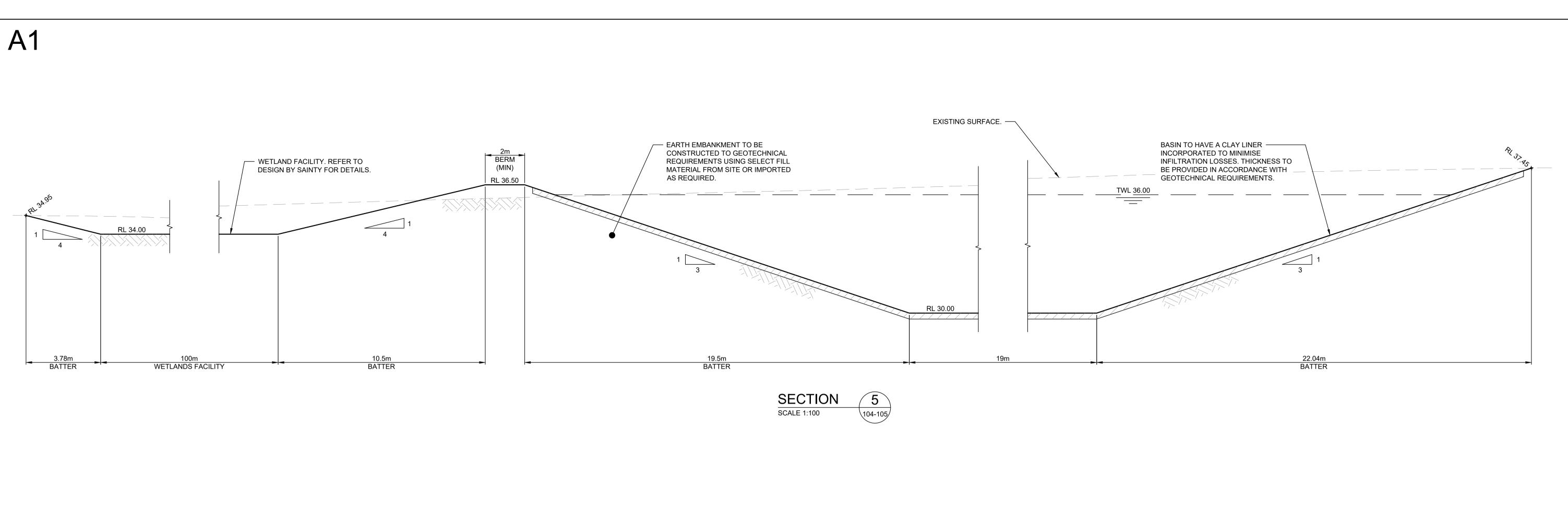
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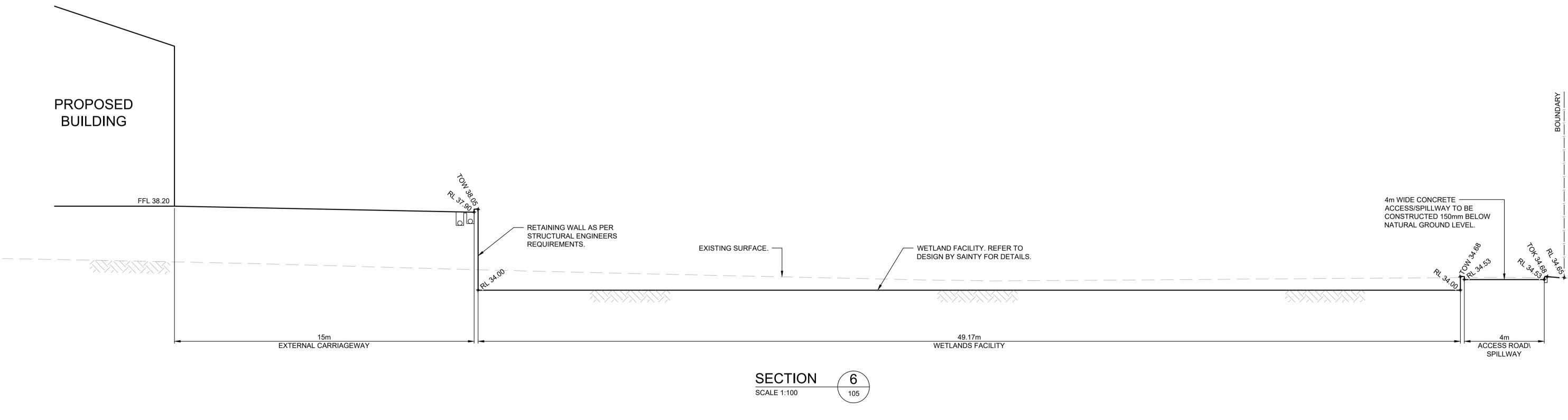
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SHEET 7 OF 16 SHEETS





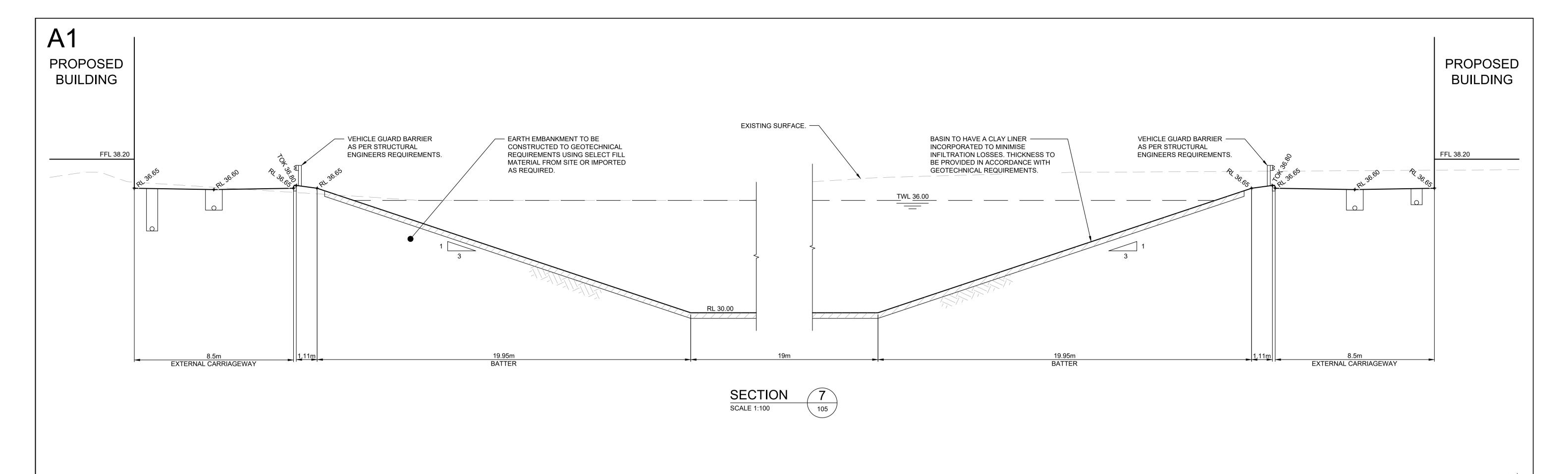


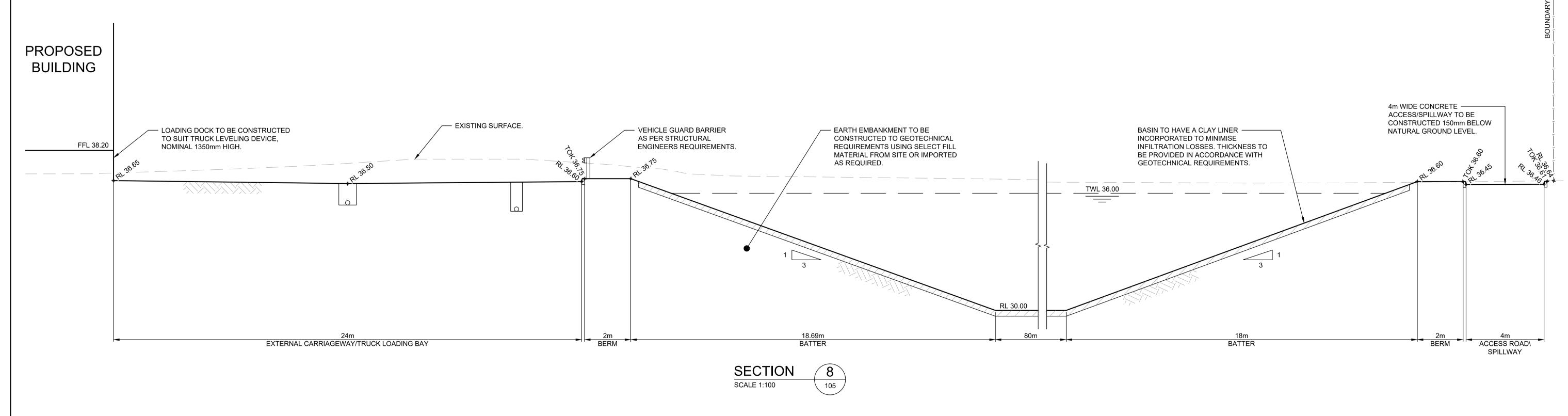




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			METRES				1.100

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С	XX/12/15	CLIENT COMMENTS			521 THE NORTHERN ROAD, LONDONDERRY	Drawn: CN	Vert.	011000110	
В	01/12/15	REVISED ARCHITECTURAL LAYOUT	Sydney         Central Coast         ABN: 26 134 067 842           P: 02 9659 0005         P: 02 4322 0798         barkernanstewart com au	ELF MUSHROOMS Pty Ltd		Checked: GJ	X-Sect. 1:100	File Ref.	REV.
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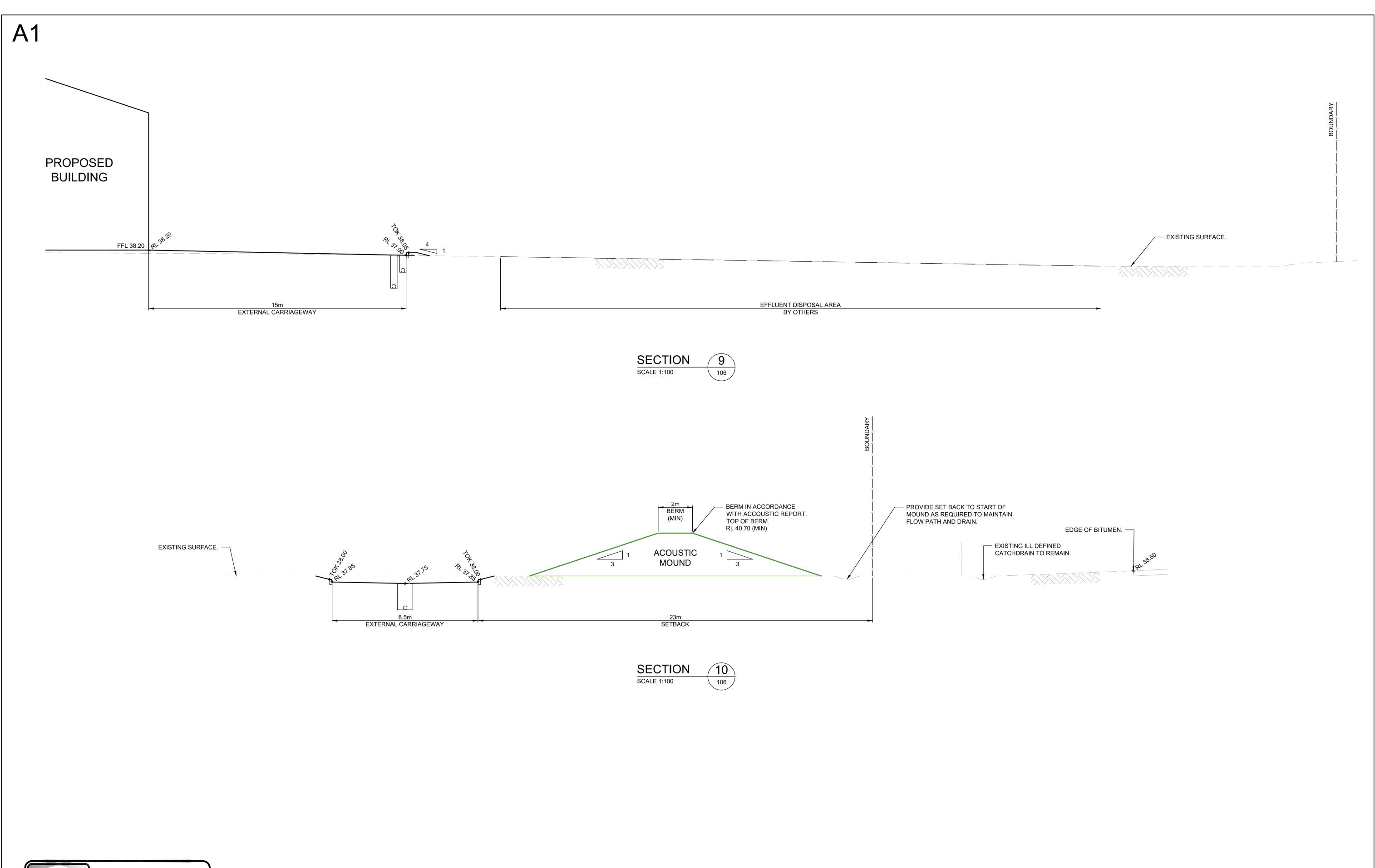






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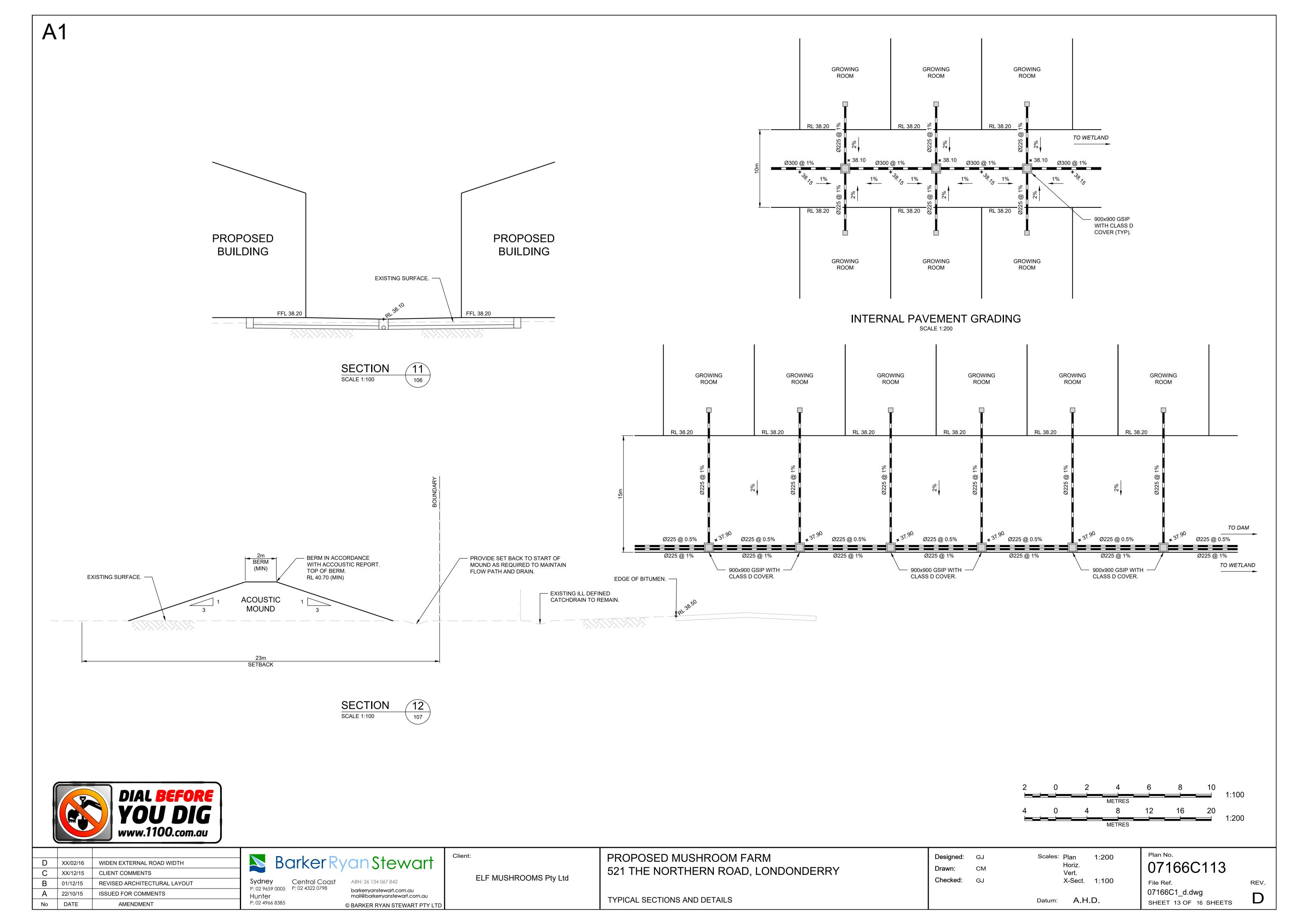
D XX/02/16 WIDEN EXTERNAL ROAD WIDTH C XX/12/15 CLIENT COMMENTS	Barker Ryan Stewart	Client:  ELF MUSHROOMS Pty Ltd	PROPOSED MUSHROOM FARM 521 THE NORTHERN ROAD, LONDONDERRY	Designed: Drawn:	GJ S CM	Scales: Plan Horiz. Vert.	Plan No. 07166C111	
B 01/12/15 REVISED ARCHITECTURAL LAYOUT	Sydney Central Coast ABN: 26 134 067 842	ELI WOSI INOOWIS Fly Llu		Checked:	GJ	X-Sect. 1:100	File Ref.	REV.
A 22/10/15 ISSUED FOR COMMENTS  No DATE AMENDMENT	P: 02 9659 0005 P: 02 4322 0798 barkerryanstewart.com.au mail@barkerryanstewart.com.au P: 02 4966 8385 © BARKER RYAN STEWART PTY LTD		TYPICAL SECTIONS - SHEET 3		D	Datum: A.H.D.	07166C1_d.dwg SHEET 11 OF 16 SHEETS	D



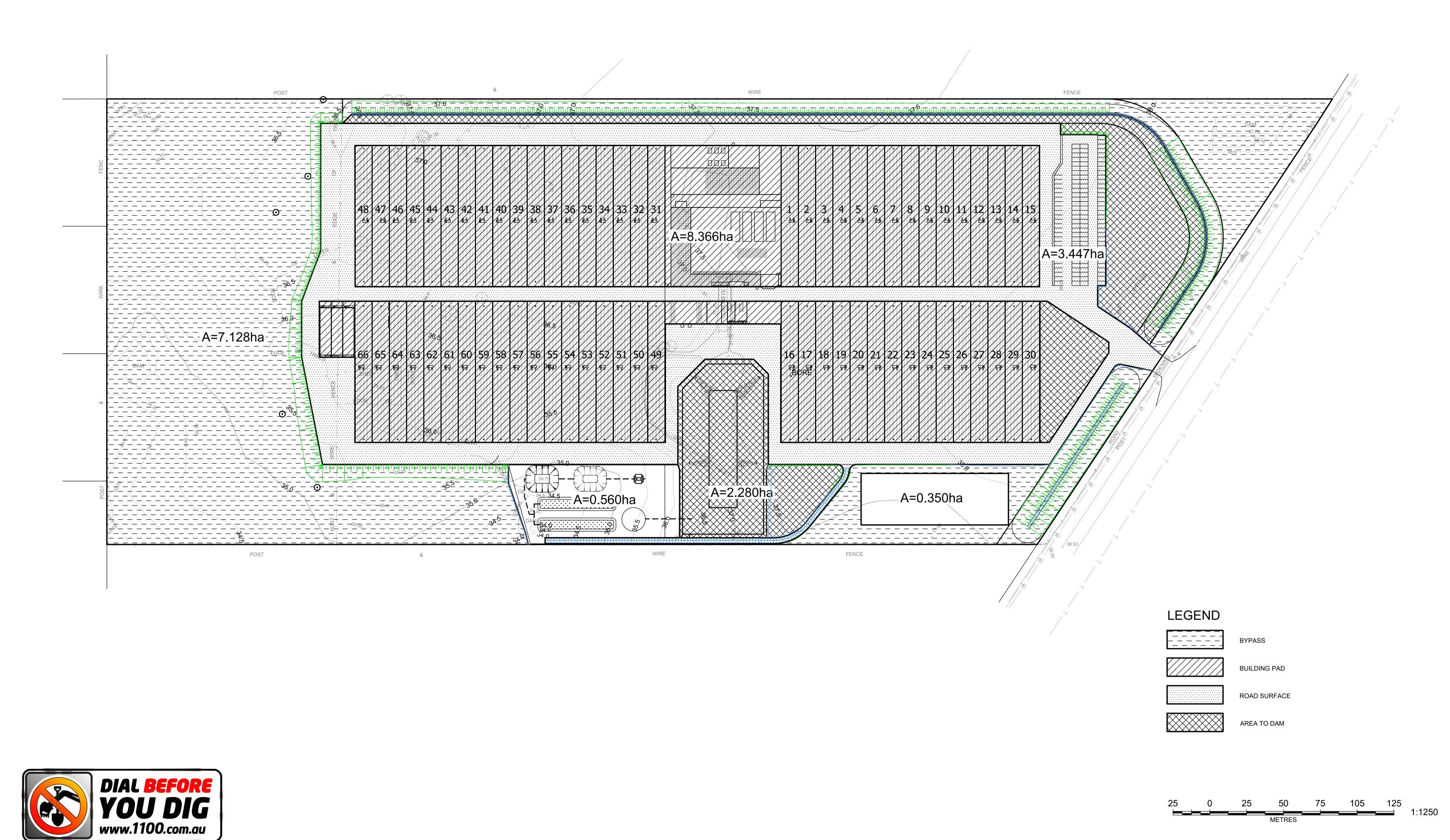


2	0	2	4	6	8	10	1:100
			METRES				1.100

	XX/02/16	WIDEN EXTERNAL ROAD WIDTH	Rarker Ryan Stewart	Client:	PROPOSED MUSHROOM FARM	Designed: G	Scales:		Plan No.	
C	XX/12/15	CLIENT COMMENTS	Barker Ryan Stewart		521 THE NORTHERN ROAD, LONDONDERRY	Drawn: C	CM	Horiz. Vert.	07166C112	
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D	XX/02/16	WIDEN EXTERNAL ROAD WIDTH
С	XX/12/15	CLIENT COMMENTS
В	01/12/15	REVISED ARCHITECTURAL LAYOUT
Α	22/10/15	ISSUED FOR COMMENTS
No	DATE	AMENDMENT

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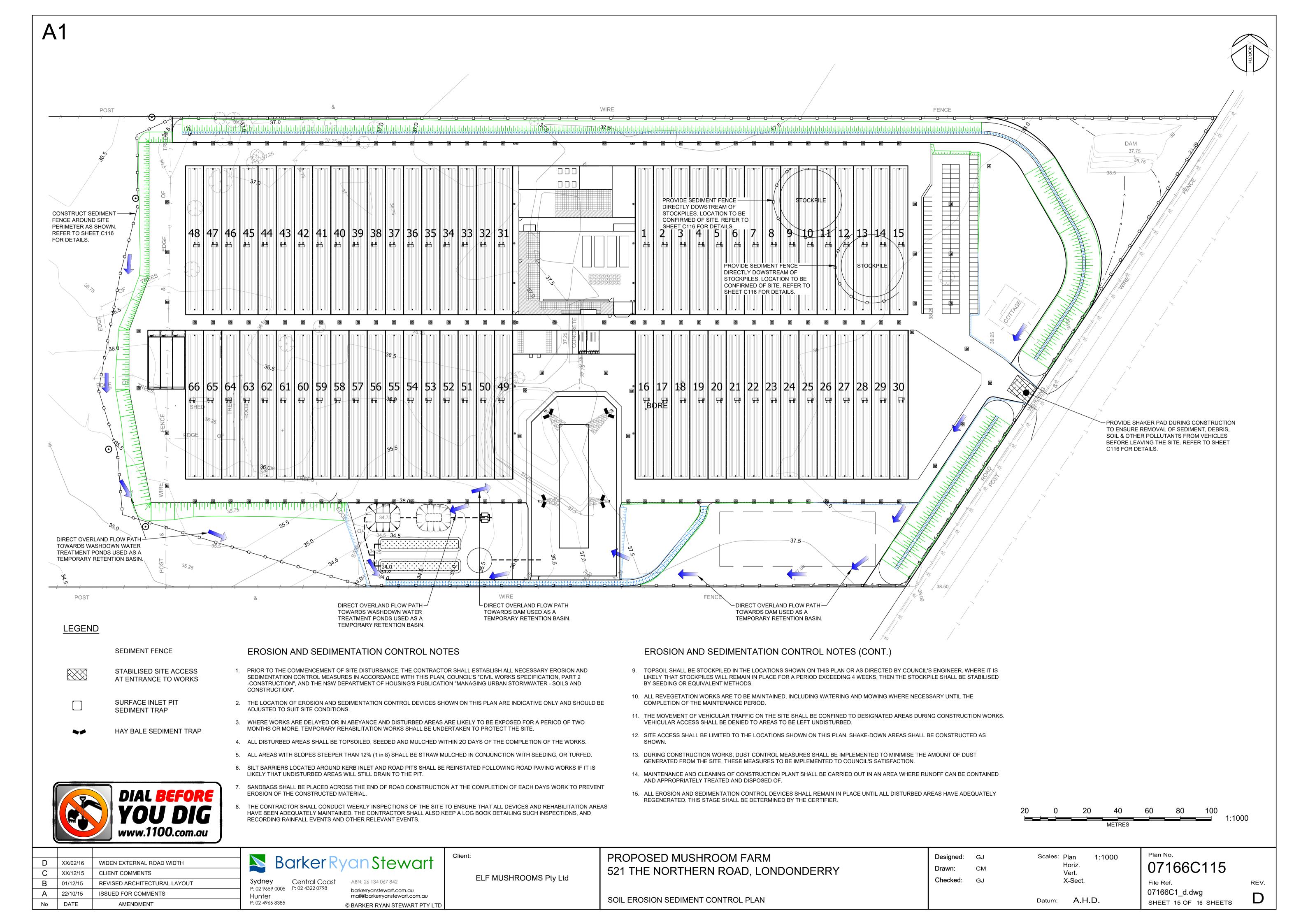
PROPOSED MUSHROOM FARM 521 THE NORTHERN ROAD, LONDONDERRY CATCHMENT PLAN

Scales: Plan 1:1250 Horiz. Vert. X-Sect. Checked: GJ

Datum: A.H.D.

Plan No. 07166C114 File Ref.

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### A STABILISE STOCKPILE SURFACE **EARTH BANK**

#### **CONSTRUCTION NOTES**

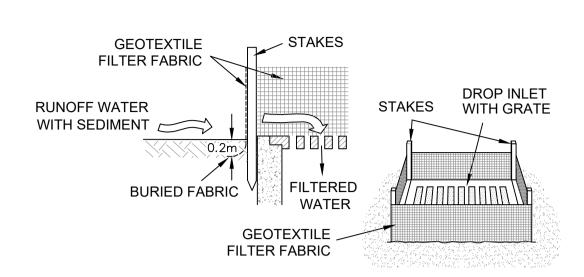
1. WHERE POSSIBLE LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS, HAZARD AREAS AND MIN. 1.5m AWAY FROM EMBANKMENTS.

- 2. CONSTRUCT ON THE CONTOUR AS A LOW, FLAT ELONGATED MOUND.
- 3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
- 4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.

CATCH DRAIN DETAIL

5. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.

TOPSOIL STOCKPILE

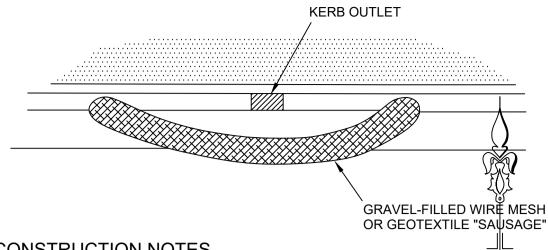


SURFACE INLET PIT SEDIMENT TRAP

#### MAX. SLOPE LENGTH 40m MAX. ANGLE FIRST STAKE TOWARDS PREVIOUSLY LAID STRAW BALE STAKES DRIVEN 0.6m INTO THE GROUND DISTURBED AREA DIRECTION OF FLOW . UNDISTURBED AREA 0.1m DEEP

DRAINAGE AREA 0.4 ha MAX. SLOPE GRADIENT 1:2

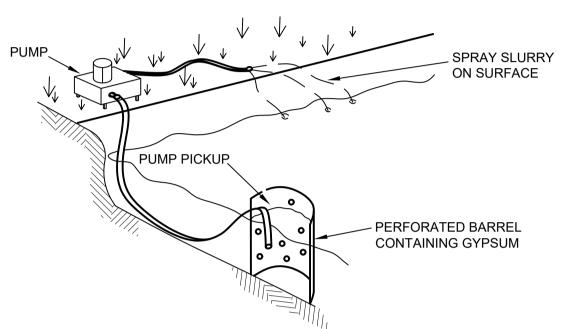
STRAW BALE SEDIMENT FILTER



#### **CONSTRUCTION NOTES**

- 1. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH AND FILL IT WITH 25mm TO 50mm GRAVEL.
- 2. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.
- 3. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING FILTER
- 4. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

#### MESH & GRAVEL FILTER "SAUSAGE" BARRIER

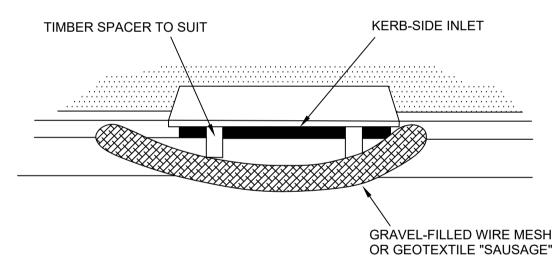


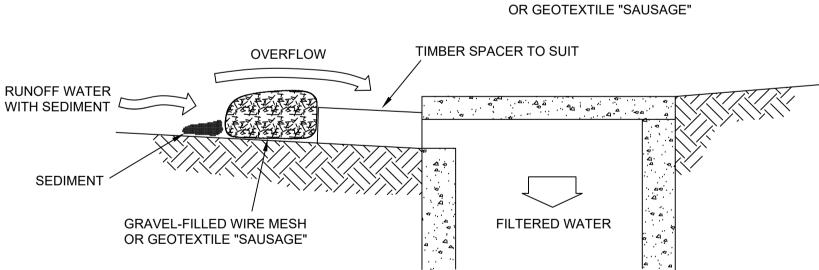
1. FLOCCULATION TO BE USED IF WATER IS NOT CLEAR (IE: SEDIMENT GREATER THAN 50 mg/L) PRIOR TO DISCHARGING FROM

TEMPORARY PUMP OUT

2. FOR RATES & AGENTS SEE APPENDIX E OF HOUSING NSW "MANAGING URBAN SW SOILS & CONSTRUCTION".

FLOCCULATION DETAIL

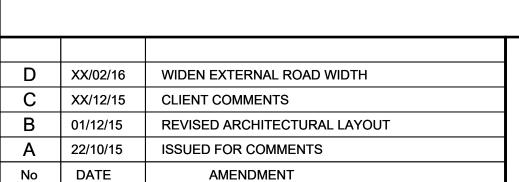




#### CONSTRUCTION NOTES

- 1. INSTALL FILTERS TO KERB INLET ONLY AT SAG POINTS.
- 2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
- 3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH X 400mm WIDE.
- 4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET MAINTAIN THE OPENING WITH SPACER BLOCKS.
- 5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING FILTER.
- SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

#### MESH & GRAVEL INLET "SAUSAGE" FILTER





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**SECTION DETAIL** 

ELF MUSHROOMS Pty Ltd

PROPOSED MUSHROOM FARM 521 THE NORTHERN ROAD, LONDONDERRY

SOIL EROSION SEDIMENT CONTROL DETAILS

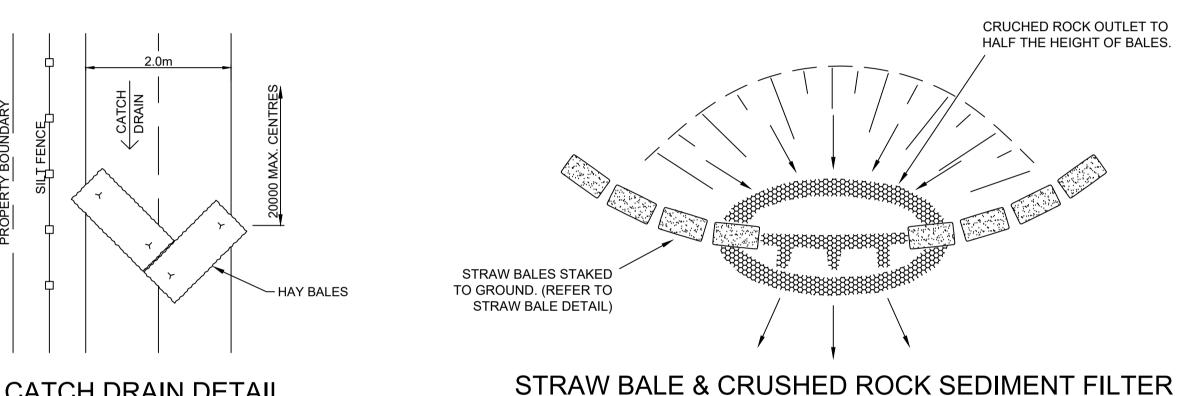
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Designed: GJ

Scales: Plan Horiz. Vert.

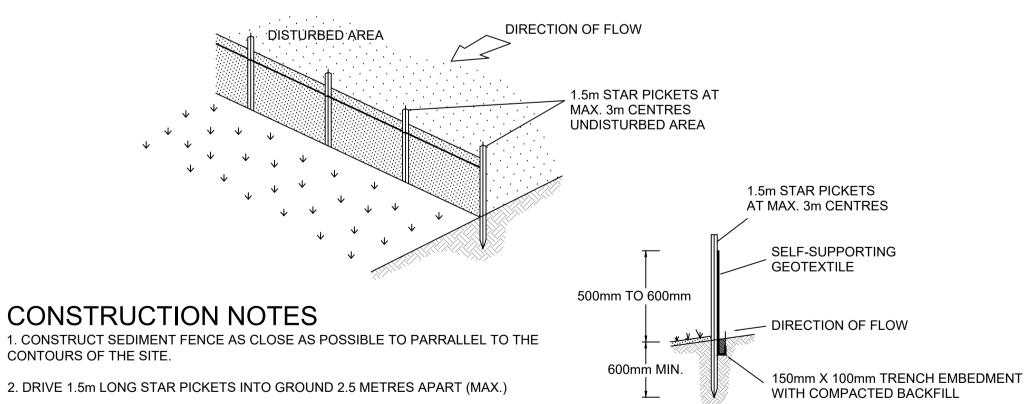
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Plan No. 07166C116 File Ref.



CRUSHED AGGREGATE MIN. 50mm 300 FOOTPATH

VEHICLE DUST SHAKE DOWN DETAIL



3. DIG A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.

4. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.

5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

MIN. WIDTH 3 METRES **CONSTRUCTION SITE** 200mm MIN. PROPERTY BOUNDARY 300mm MIN. RUNOFF DIRECTED TO SEDIMENT TRAP/FENCE DGB 20 ROADBASE OR 30mm AGGREGATE **EXISTING ROADWAY** CONSTRUCTION NOTES GEOTEXTILE FABRIC DESIGNED TO PREVENT 1. STRIP TOPSOIL AND LEVEL SITE. INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD 2. COMPACT SUBGRADE. PROPERTIES OF THE SUB-BASE LAYERS 3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.

TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES. 5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP.

4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING

ROADBASE OR 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR

STABILISED SITE ACCESS

## DIAL BEFORE www.1100.com.au

GEOFABRIC MAY BE A WOVEN OR NEEDLE

PUNCHED PRODUCT WITH A MINIMUM CBR

BURST STRENGTH (AS3706.4-90) OF 2500 N

## SEDIMENT FENCE

Hunter

P: 02 4966 8385

X-Sect.

07166C1\_d.dwg A.H.D. SHEET 16 OF 16 SHEETS



## CRUCHED ROCK OUTLET TO HALF THE HEIGHT OF BALES.