

100 FAIREY RD, SOUTH WINDSOR

CIVIL WORKS

SITE WORKS – GENERAL

1. ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH LOCAL COUNCIL, AUSTRALIAN AND AUTHORITY STANDARDS.
2. ALL TRENCHING WORKS ARE TO BE RESTORED TO ORIGINAL CONDITION.
3. THE INTEGRITY OF ALL EXISTING AND NEW SERVICES IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
4. ALL PLANS ARE TO BE READ IN CONJUNCTION WITH APPROVED ARCHITECTS, STRUCTURAL ENGINEERS AND OTHER CONSULTANT'S PLANS. ANY DISCREPANCIES ARE TO BE NOTIFIED TO THE ENGINEER FOR CLARIFICATION.

SITE WORKS – ACCESS AND SAFETY

1. ALL WORKS ARE TO BE UNDERTAKEN IN A SAFE MANNER IN ACCORDANCE WITH ALL STATUTORY AND INDUSTRIAL RELATION REQUIREMENTS.
2. ACCESS TO ADJACENT BUILDINGS AND PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
3. WHERE NECESSARY SAFE PASSAGE SHALL BE PROVIDED FOR VEHICLES AND PEDESTRIANS THROUGH OR ADJACENT TO THE SITE.

FINISHED LEVELS

1. LEVELS BASED ON SURVEY PREPARED BY MCKINLAY MORGAN & ASSOCIATES PTY. LTD. THE CONTRACTOR SHALL VERIFY LEVELS PRIOR TO CONSTRUCTION COMMENCEMENT. ANY DISCREPANCIES SHALL BE NOTIFIED TO THE ENGINEER OR SUPERINTENDENT FOR CLARIFICATION.
2. FINISHED LEVELS SHOWN ARE CONCEPTUAL ONLY AND SUBJECT TO DETAILED DESIGN PRIOR TO CONSTRUCTION CERTIFICATE APPLICATION. FINAL FINISHED LEVELS TO BE +/- 0.5m FROM LEVELS SHOWN.
3. ALL CONTOUR LINES & SPOT LEVELS INDICATE FINISHED PAVEMENT LEVELS U.N.O. ON PLAN.
4. PERMANENT BATTER SLOPES ARE TO HAVE A MAXIMUM GRADE OF 1V:4H.

SEDIMENT AND EROSION CONTROL

1. THE CONTRACTOR SHALL INSTIGATE ALL SEDIMENT AND EROSION CONTROL MEASURES IN ACCORDANCE WITH THE HILLS SHIRE COUNCIL REQUIREMENTS AND THE "BLUE BOOK" (MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION, PRODUCED BY THE DEPARTMENT OF HOUSING). THESE MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED.
2. THE SEDIMENT & EROSION CONTROL PLAN PRESENTS CONCEPTS ONLY. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE ESTABLISHMENT & MANAGEMENT OF A DETAILED SCHEME MEETING COUNCIL'S DESIGN, AND ALL OTHER REGULATORY AUTHORITY REQUIREMENTS.
3. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE SHALL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
 - a. INSTALL ALL TEMPORARY SEDIMENT FENCES AND BARRIER FENCES. WHERE FENCES ARE ADJACENT TO EACH OTHER THE SEDIMENT FENCE CAN BE INCORPORATED INTO THE BARRIER FENCE.
 - b. CONSTRUCT TEMPORARY STABILISED SITE ACCESS. INCLUDING SHAKE DOWN AND WASH PAD.
 - c. INSTALL SEDIMENT CONTROL MEASURES AS OUTLINED ON THESE SEDIMENT AND CONTROL PLANS (ONCE APPROVED)
4. THE CONTRACTOR SHALL UNDERTAKE SITE DEVELOPMENT WORKS SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF MINIMUM WORKABLE SIZE.
5. AT ALL TIMES AND IN PARTICULAR DURING WINDY AND DRY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL. TACIFIERS MAY BE USED TO CONTROL DUST DURING EXTENDED PERIODS OF DRY WEATHER.
6. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) SHALL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
7. WATER SHALL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN STABILISED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED OUT.
8. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE STABILISED / REHABILITATED.
9. THE CONTRACTOR SHALL ALLOW FOR THE ESTABLISHMENT OF ANY OTHER EROSION PROTECTION MEASURES. (IF APPLICABLE).
10. THE CONTRACTOR SHALL REGULARLY INSPECT (MINIMUM TWICE PER WEEK) ALL EROSION AND SEDIMENT CONTROL MEASURES TO ENSURE THEY ARE OPERATING EFFECTIVELY. REPAIRS AND/OR MAINTENANCE SHALL BE UNDERTAKEN REGULARLY AND AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.
11. ACCEPTABLE RECEPTORS SHALL BE USED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER. WASTE FROM THESE RECEPTORS SHALL BE DISPOSED OF IN ACCORDANCE WITH REGULATORY AUTHORITY REQUIREMENTS. PAY ALL FEES AND PROVIDE EVIDENCE OF SAFE DISPOSAL.

STORMWATER

1. ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE FOLLOWING AUSTRALIAN STANDARDS AS2032, AS3500 AND AS3725 AS A MINIMUM.
2. ALL PIPES LESS THAN OR EQUAL TO Ø300mm IN SIZE ARE TO BE SOLVENT WELD-JOINTED UPVC CLASS SNE U.N.O.
3. ALL PIPES Ø375mm OR GREATER IN SIZE ARE TO BE MIN. CLASS 2 REINFORCED CONCRETE PIPE (RCP) WITH SPIGOT AND SOCKETED JOINT OR VANTAGE PIPE PLUS (VPIPE+) FIBRE REINFORCED CONCRETE (FRC) WITH VANTAGE PIPE PLUS JOINT U.N.O.
4. ALL PIPES ARE TO BE LAID AT MIN. 1.0% GRADE U.N.O.
5. PIPE BEDDING IS TO BE HS2 UNDER ROADS AND TRAFFICKED AREAS AND SHALL BE H2 IN LANDSCAPED AND PEDESTRIAN TRAFFICKED AREAS U.N.O.
6. ALL PIPE BENDS AND JUNCTIONS ARE TO BE MADE WITH EITHER PURPOSE MADE FITTINGS OR STORMWATER DRAINAGE PITS.
7. MINIMUM COVER FROM THE OVERT OF THE STORMWATER PIPE OF 300mm IS TO BE PROVIDED IN LANDSCAPED AREAS AND 600mm IN VEHICULAR TRAFFICKED AREAS U.N.O.
8. WHERE MINIMUM COVER CANNOT BE ACHIEVED CONCRETE ENCASEMENT OF THE AFFECTED PIPE IS MAY BE UNDERTAKEN WITH 20MPa CONCRETE WITH A MIN. COVER OF 150mm TO ALL SIDES OF THE PIPE. THE CONTRACTOR SHALL CONFIRM THIS REQUIREMENT WITH THE ENGINEER OR SUPERINTENDENT.
9. LAID PIPELINES ARE TO HAVE THE FOLLOWING CONSTRUCTED TOLERANCES:
 - a. HORIZONTAL-1300 ANGULAR DEVIATION FROM REQUIRED ALIGNMENT;
 - b. VERTICAL-1300 ANGULAR DEVIATION FROM REQUIRED ALIGNMENT.
10. ALL DRAINAGE PITS ARE TO BE CAST IN-SITU, PRECAST DRAINAGE PITS MAY BE USED WITH APPROVAL FROM THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A PRECAST PIT INSTALLATION WORK METHOD STATEMENT FOR ASSESSMENT BY THE ENGINEER FOR APPROVAL.
11. DRAINAGE PIT COVERS ARE TO BE EITHER GALVANISED STEEL OR CAST IRON CLASS 'B' IN LANDSCAPED AND PEDESTRIAN TRAFFICKED AREAS AND CLASS 'D' IN ALL VEHICULAR TRAFFICKED AREAS U.N.O.
12. DRAINAGE PIT COVERS ARE TO BE 'HEELSAFE' TYPE IN ALL PEDESTRIAN TRAFFICKED AREAS U.N.O.
13. EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CONFIRMED PRIOR TO COMMENCING WORKS ON SITE.
14. PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
15. DOWN PIPES CONNECTED DIRECT TO PIPES TO BE CONNECTED AT 45° TO THE FLOW DIRECTION WITH A CLEANING EYE PROVIDED AT GROUND LEVEL.

DRAWING SCHEDULE

Sheet Number	Sheet Title
DA1.01	COVER SHEET, LOCALITY PLAN AND DRAWING SCHEDULE
DA2.01	SEDIMENT AND EROSION CONTROL PLAN & DETAILS
DA3.01	BULK EARTHWORK CONTOUR PLAN
DA3.05	BULK EARTHWORK DEPTH CUT TO FILL PLAN
DA3.11	BULK EARTHWORK SECTIONS
DA4.01	SITEWORKS AND GRADING PLAN
DA4.05	EXISTING AND PROPOSED FLOODING PLAN
DA4.11	SEDIMENT BASIN PLAN & DETAILS SHEET

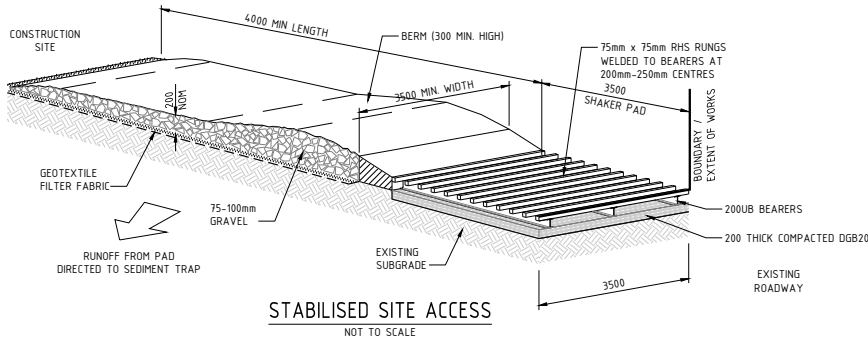
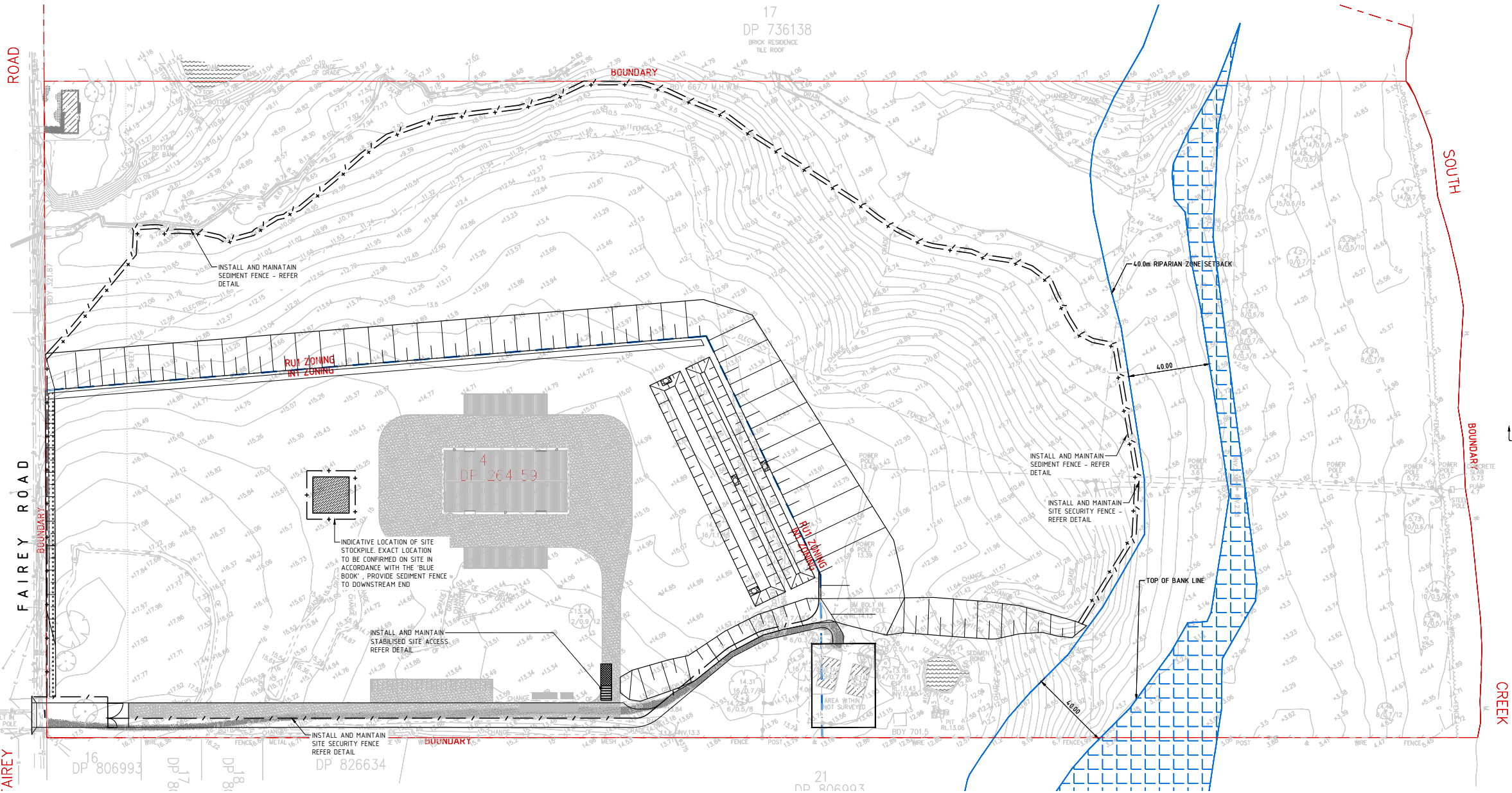


LOCALITY PLAN

NOT TO SCALE - COURTESY OF SIX MAPS

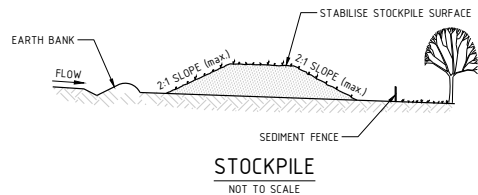
DA APPROVAL

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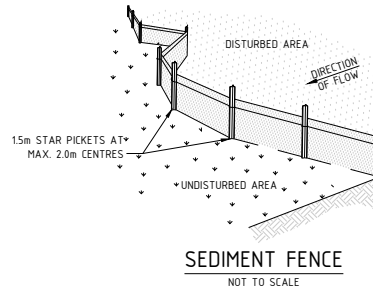
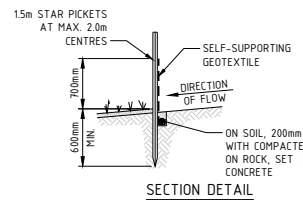
MAINTENANCE

1. THE TEMPORARY ACCESS SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY.
2. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
3. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY.
4. INSTALL BARRIER ON EITHER SIDE OF SHAKER PAD.
5. TO ENSURE VEHICLES ARE GUIDED ON TO THE PAD.
6. INVERT OF SHAKER PAD TO BE DRAINED VIA AGRICULTURAL PIPE WRAPPED IN GEOTEXTILE FABRIC.



NOTES:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT. 4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES 1 TO 2 METRES DOWNSLOPE.



NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50L/s IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 200mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 15m LONG STAR PICKETS INTO GROUND AT 2.0m INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
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.

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DRAWING STATUS	INITIAL	DATE	
FOR INFORMATION ONLY			
FOR CLIENT APPROVAL			
FOR TENDER			
FOR CONSTRUCTION			

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12.11.18		ISSUED FOR DA APPROVAL	MW	1
15.11.18		ISSUED FOR DA APPROVAL	MW	2
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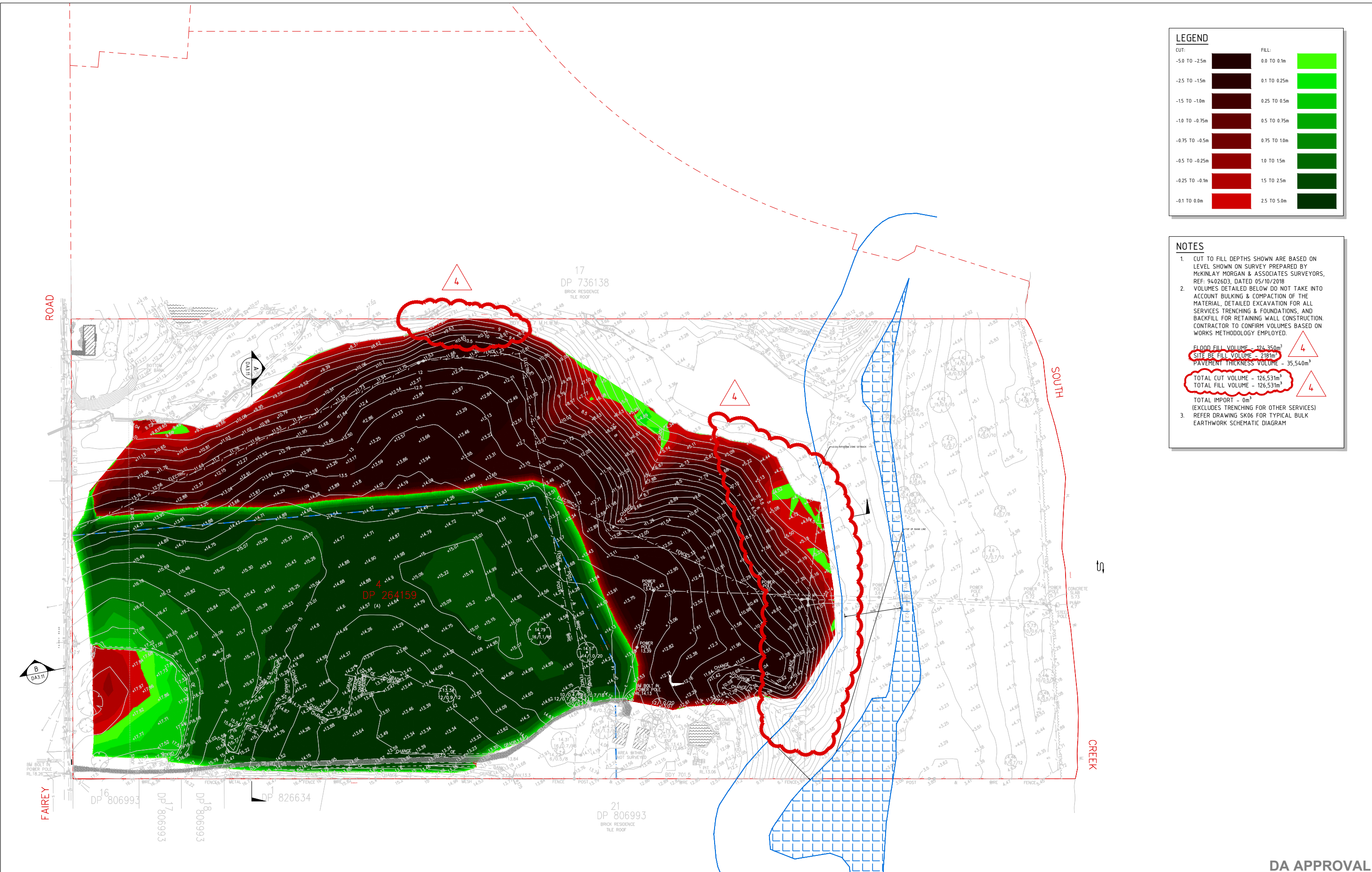
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DA APPROVAL

PROJECT	100 FAIREY RD, SOUTH WINDSOR
CLIENT	AD+E
PLANNER	MACRO PLAN
DRAWING TITLE	DA - RESOURCE RECOVERY FACILITY SEDIMENT AND EROSION CONTROL PLAN & DETAILS
DATE	OCT 2018
SCALE	1:500
JOB No	17208
DESIGNED	MW
DRAWN	LC
STWS No	DA2.01
Rev	3

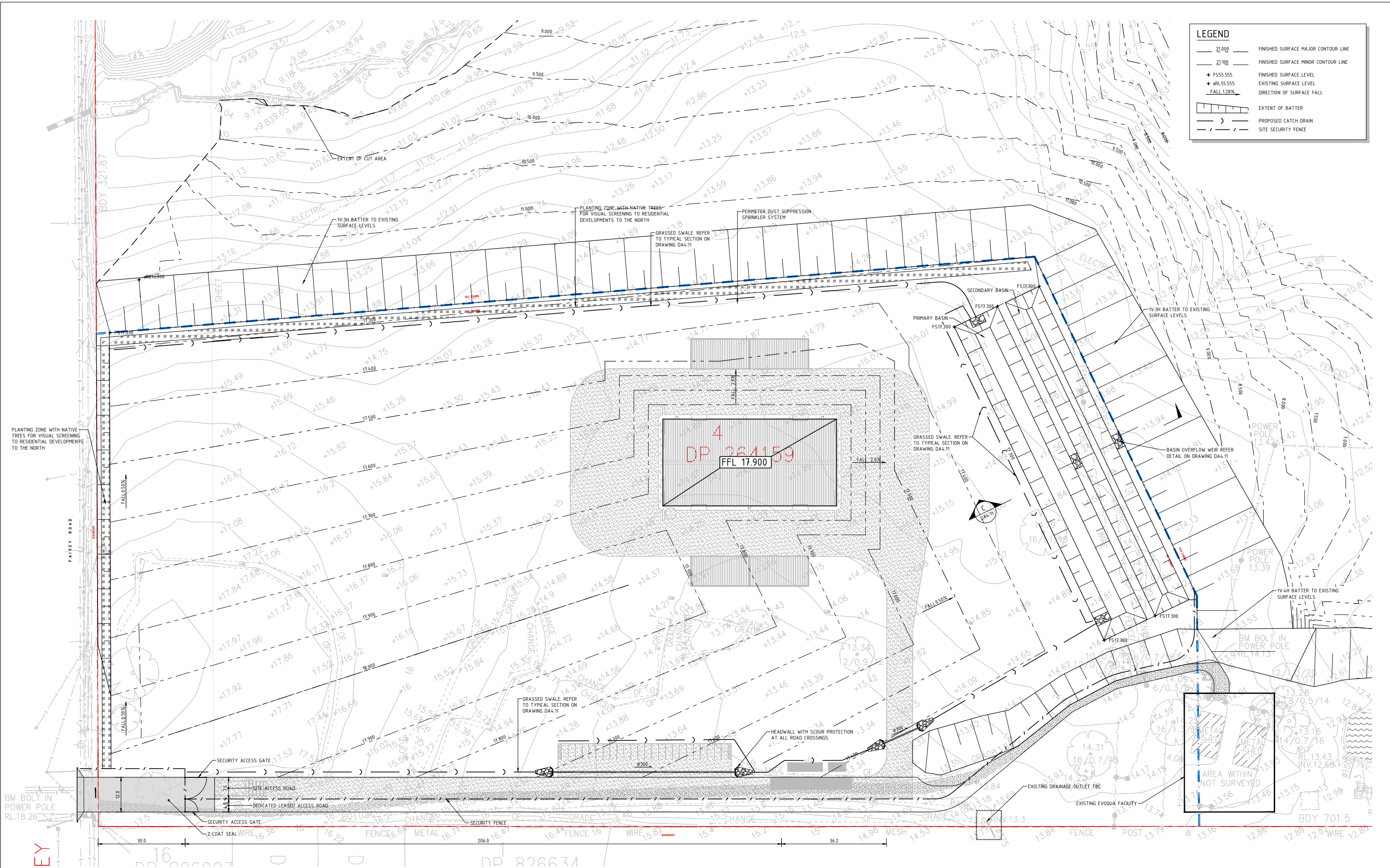
Level 1, 91 George Street Parramatta NSW 2150 P 02 9891 5033 F 02 9891 3898 E admin@sparksandpartners.com.au	SPARKS+PARTNERS CONSULTING ENGINEERS HYDRAULIC CIVIL FIRE
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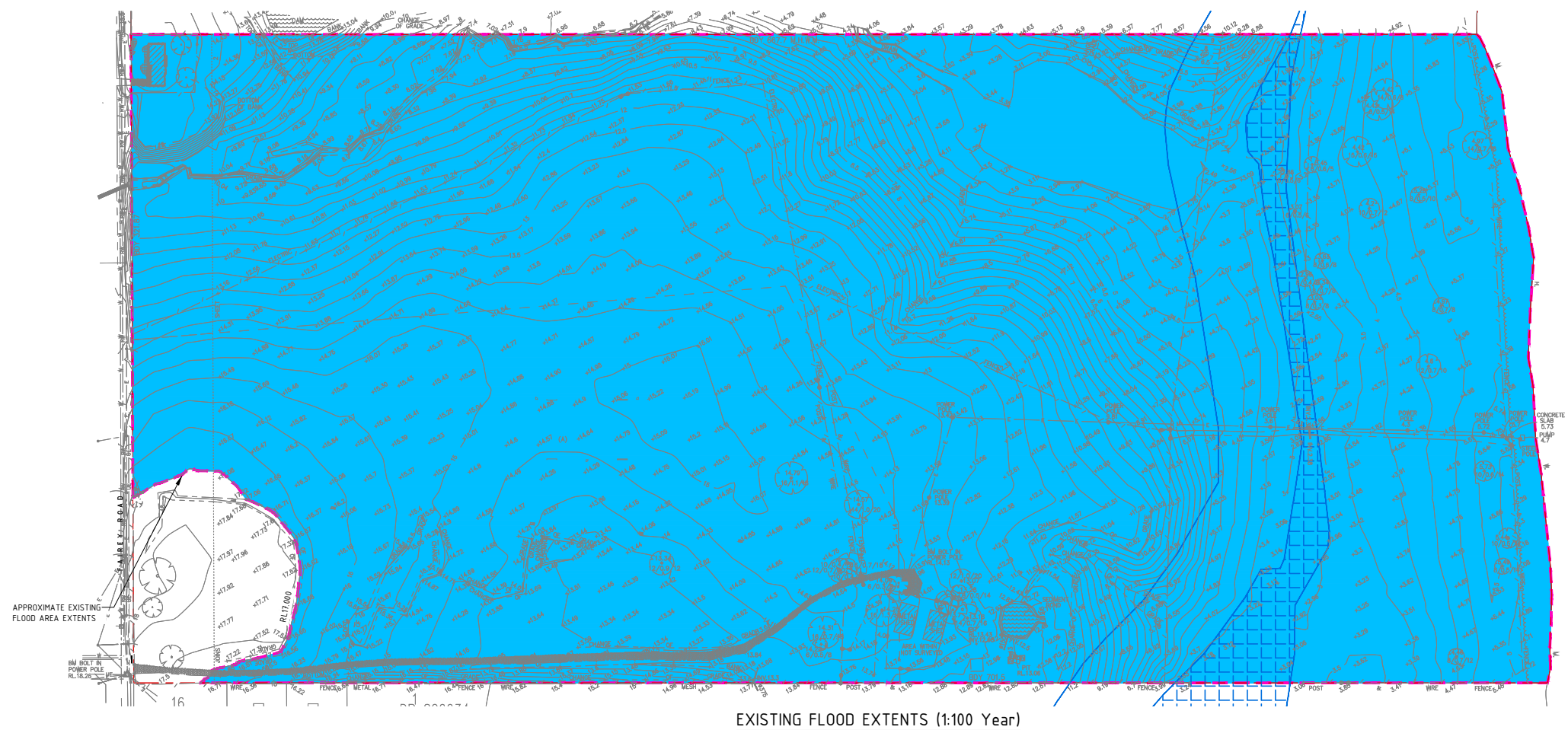
LEGEND		
CUT:		FILL:
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-1.5 TO -1.0m		0.25 TO 0.5m
-1.0 TO -0.75m		0.5 TO 0.75m
-0.75 TO -0.5m		0.75 TO 1.0m
-0.5 TO -0.25m		1.0 TO 1.5m
-0.25 TO -0.1m		1.5 TO 2.5m
-0.1 TO 0.0m		2.5 TO 5.0m

- NOTES**
- CUT TO FILL DEPTHS SHOWN ARE BASED ON LEVEL SHOWN ON SURVEY PREPARED BY MCKINLAY MORGAN & ASSOCIATES SURVEYORS, REF: 94/02603, DATED 05/10/2018
 - VOLUMES DETAILED BELOW DO NOT TAKE INTO ACCOUNT BULKING & COMPACTION OF THE MATERIAL, DETAILED EXCAVATION FOR ALL SERVICES TRENCHING & FOUNDATIONS, AND BACKFILL FOR RETAINING WALL CONSTRUCTION CONTRACTOR TO CONFIRM VOLUMES BASED ON WORKS METHODOLOGY EMPLOYED.
- FLOOD FILL VOLUME - 124,350m³
SITE BE FILL VOLUME - 2181m³
PAVEMENT THICKNESS VOLUME - 35,540m³
- TOTAL CUT VOLUME - 126,531m³
TOTAL FILL VOLUME - 126,531m³
- TOTAL IMPORT - 0m³
(EXCLUDES TRENCHING FOR OTHER SERVICES)
- REFER DRAWING SK06 FOR TYPICAL BULK EARTHWORK SCHEMATIC DIAGRAM

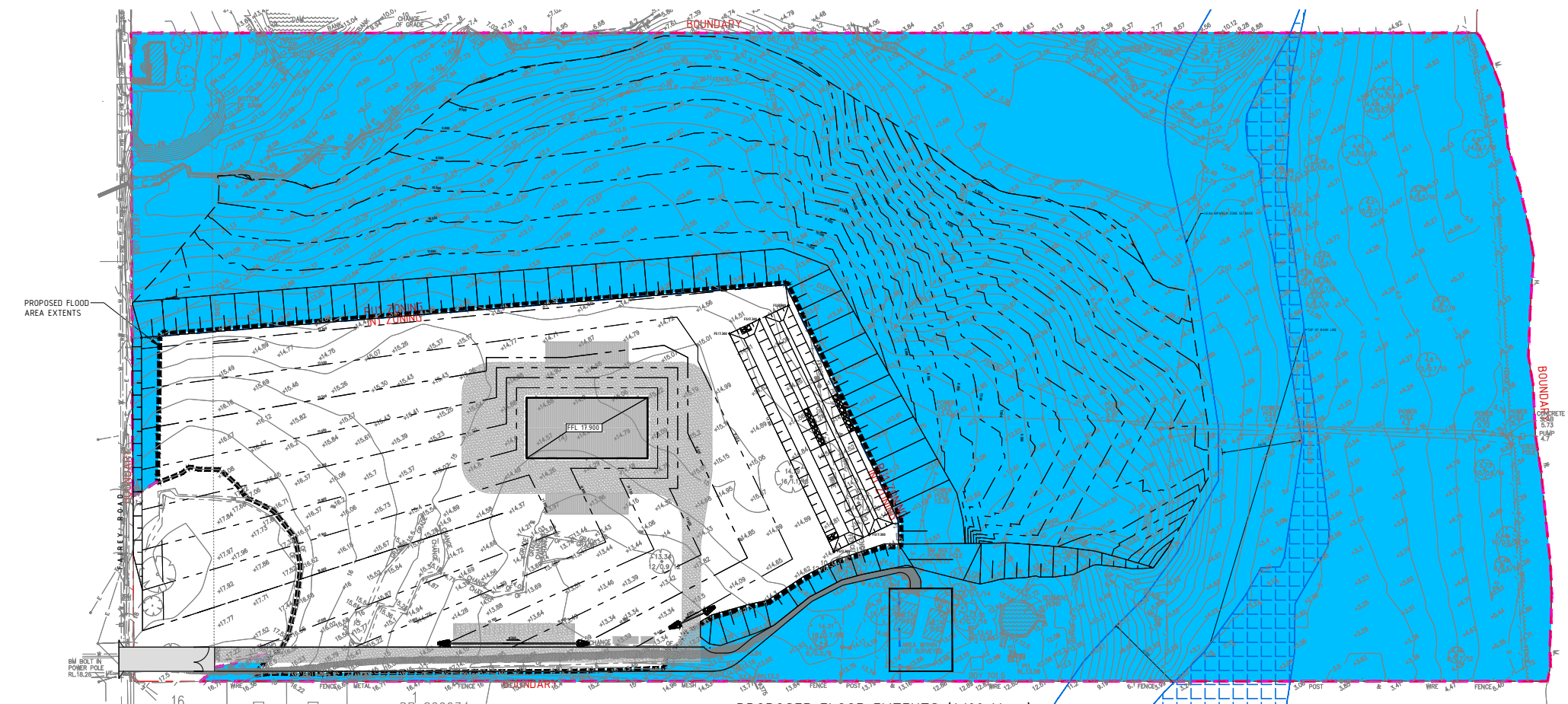
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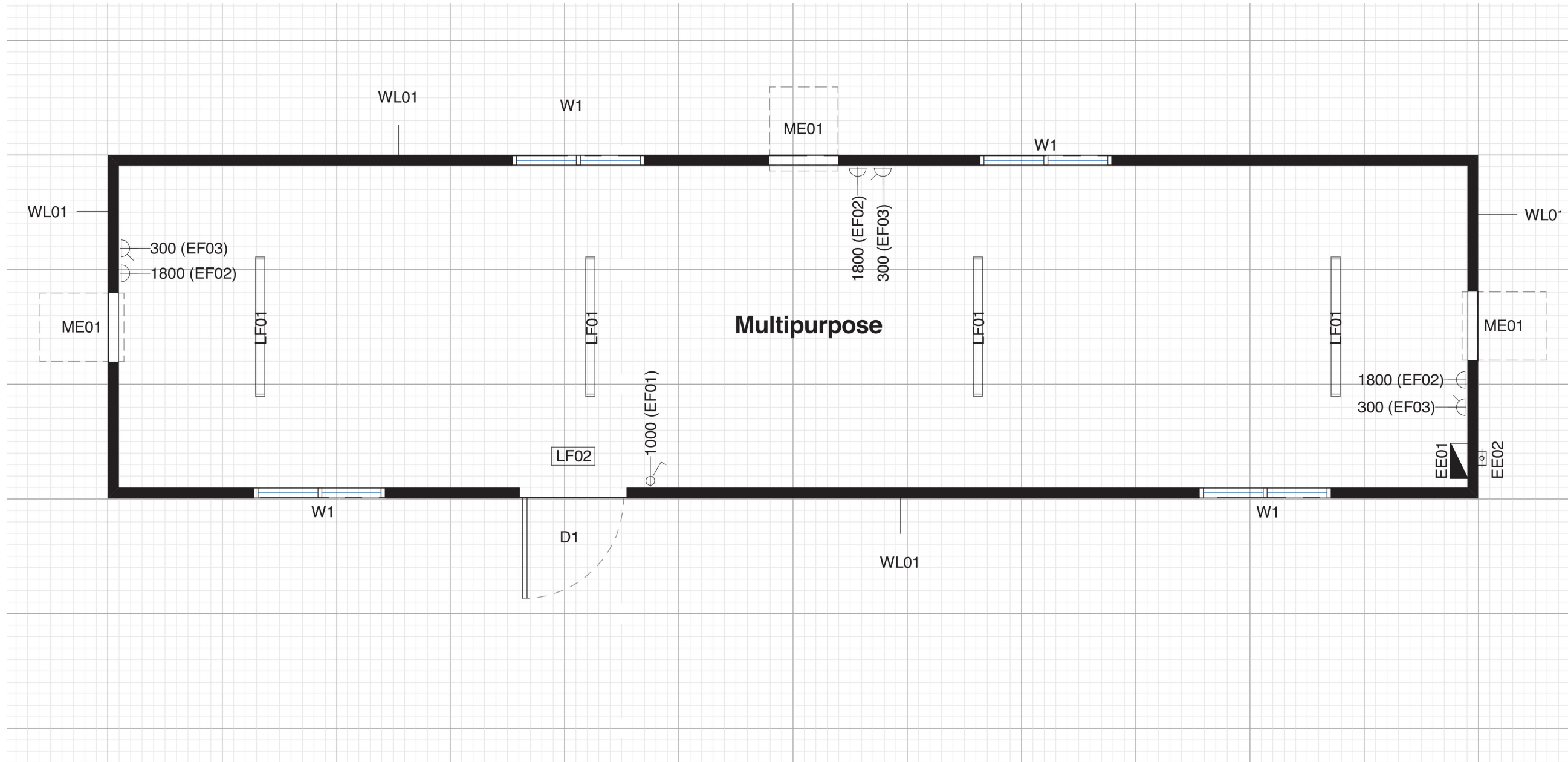


EXISTING FLOOD EXTENTS (1:100 Year)

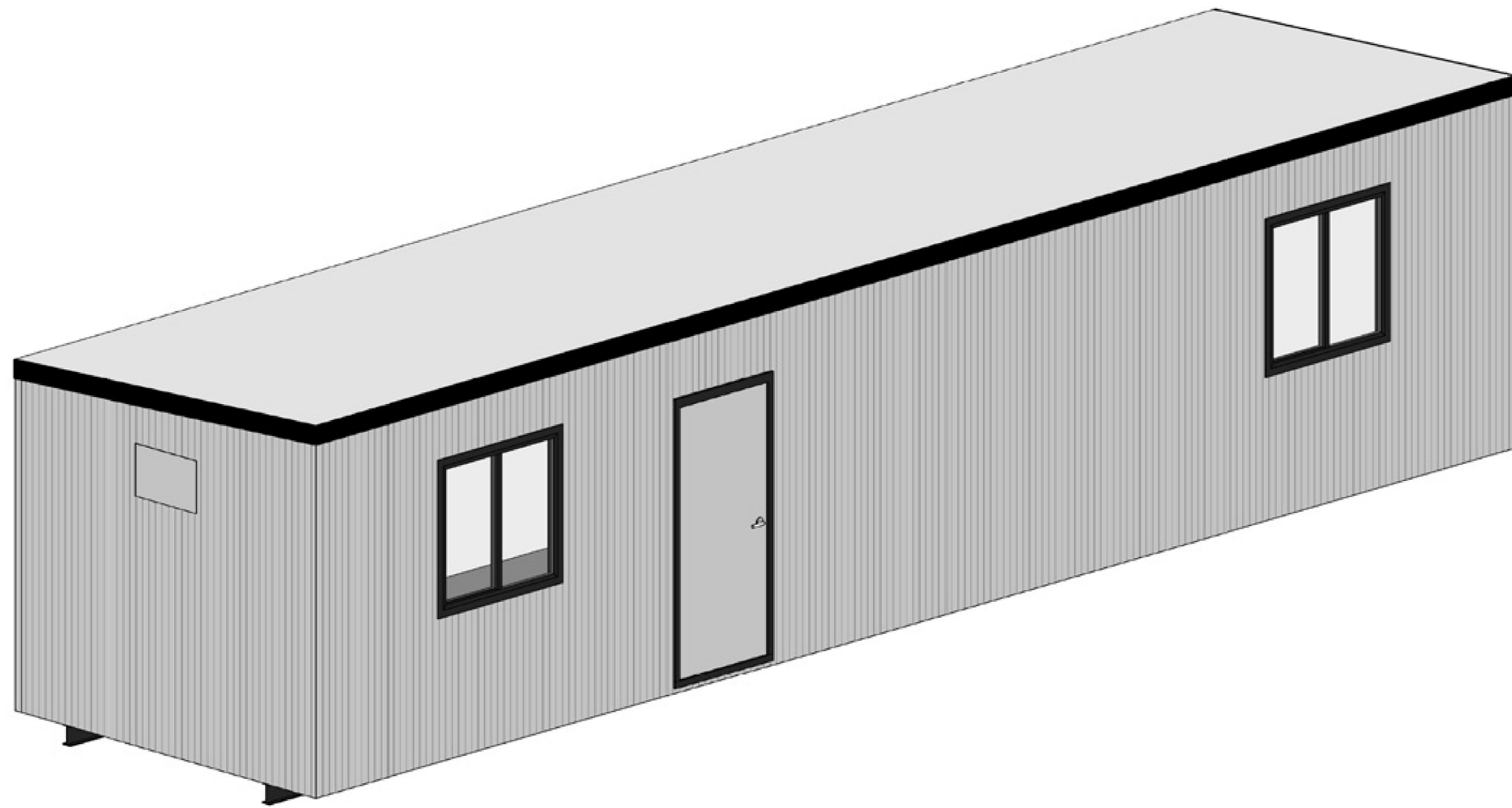


PROPOSED FLOOD EXTENTS (1:100 Year)

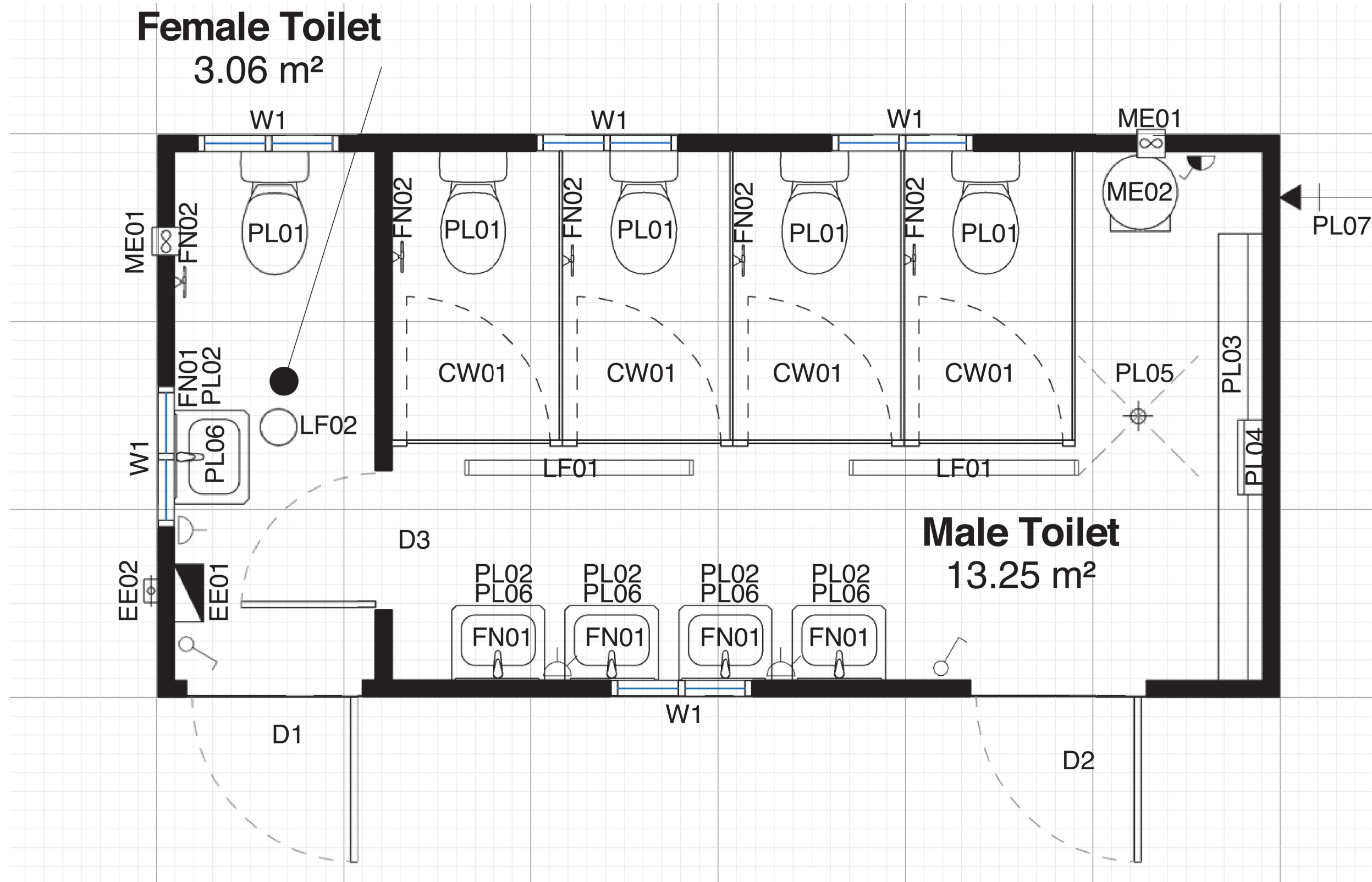
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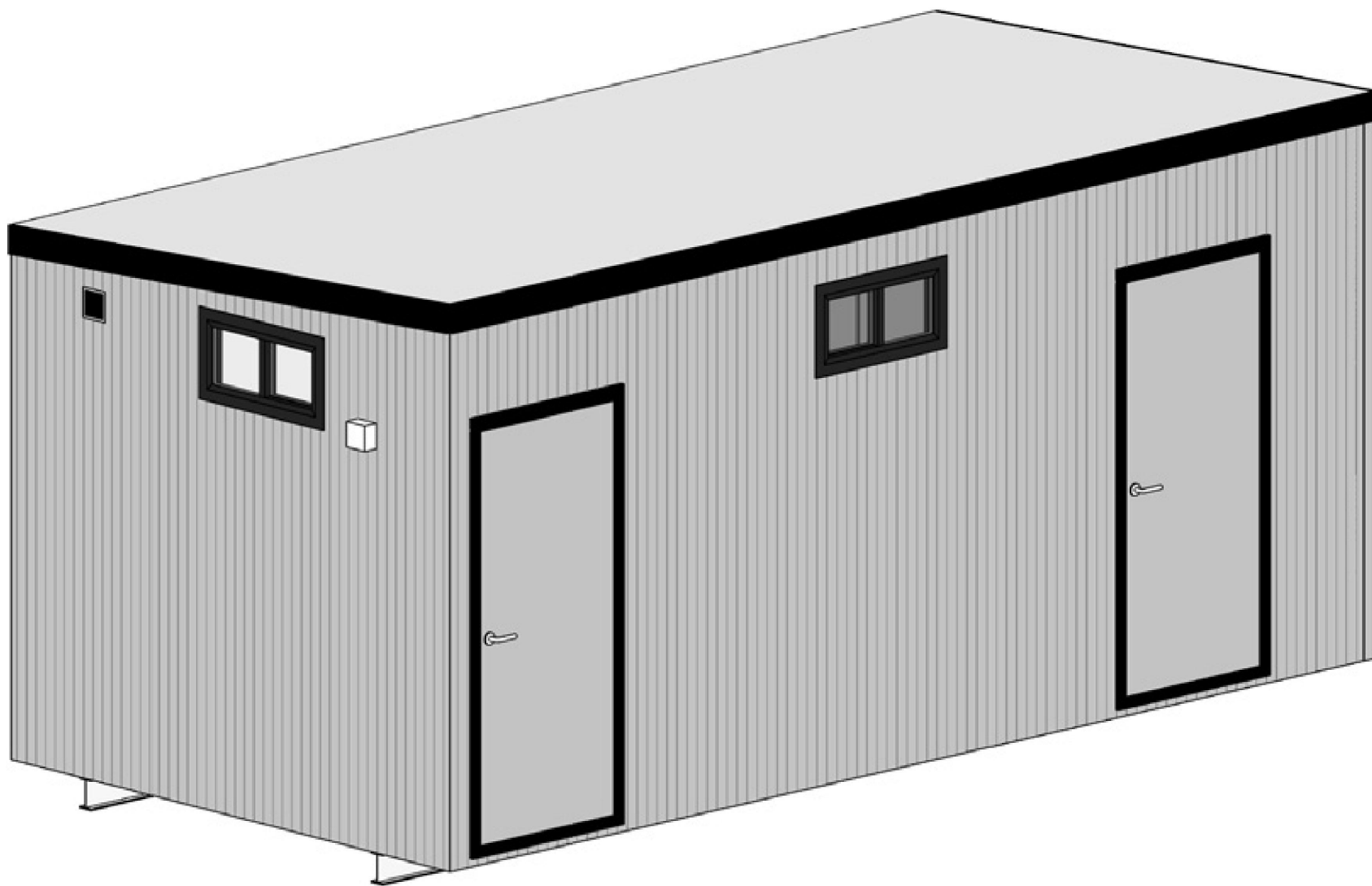
DEMOUNTABLE OFFICE 12.0m X 3.0m PLAN
SCALE 1:40



DEMOUNTABLE OFFICE 12.0m X 3.0m PERSPECTIVE VIEW
SCALE 1:40



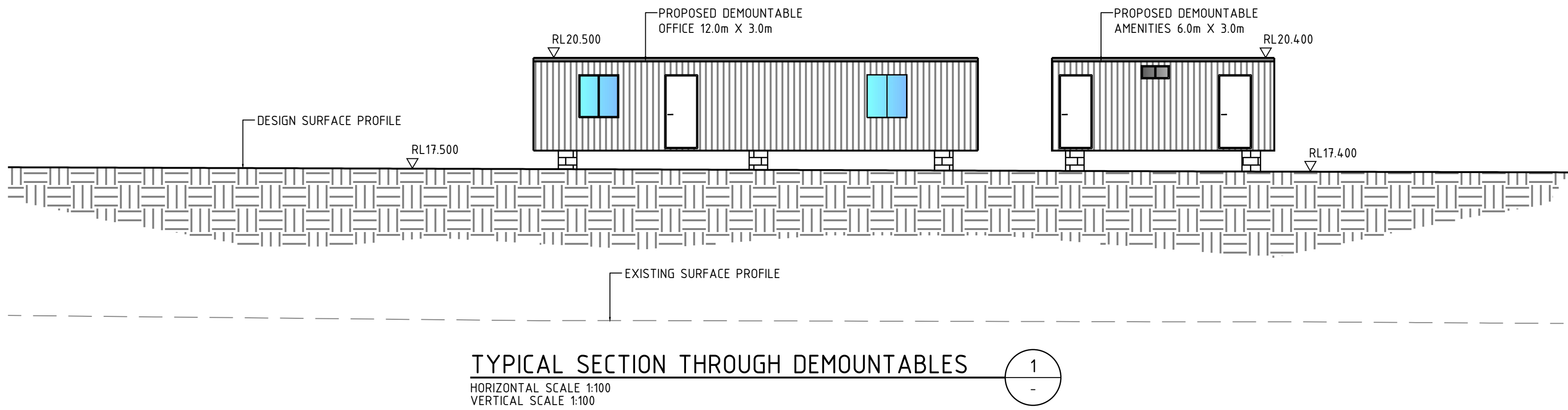
DEMOUNTABLE AMENITIES 6.0m X 3.0m PLAN
SCALE 1:40



DEMOUNTABLE AMENITIES 6.0m X 3.0m PERSPECTIVE VIEW
SCALE 1:40

Demountable office 12.0mx3.0m Specification List	
Standard Inclusions	Standard Finishes
1 External plain metal door 2043 x 886	Exterior:
4 Windows 1075 x 1155 with flyscreens	Trimdeck roof cladding (Surfmist)
3 Cut-outs for Air Conditioner, framed and clad over	CCS Mesa cladding to exterior walls (Merino)
4 Diffused LED batten lights, 38W	R2.0 glasswool batts
3 Single socket GPO for AC's, 10Amps	Interior:
3 Double socket GPO's, 10 Amps	Pre-finished polyester plywood linings to ceilings (Mirage Pearl)
1 Load centre & power entry box	Pre-finished polyester plywood linings to walls (White Smoke)
	Seamless vinyl floor coverings
	D Mould skirting & cornice throughout

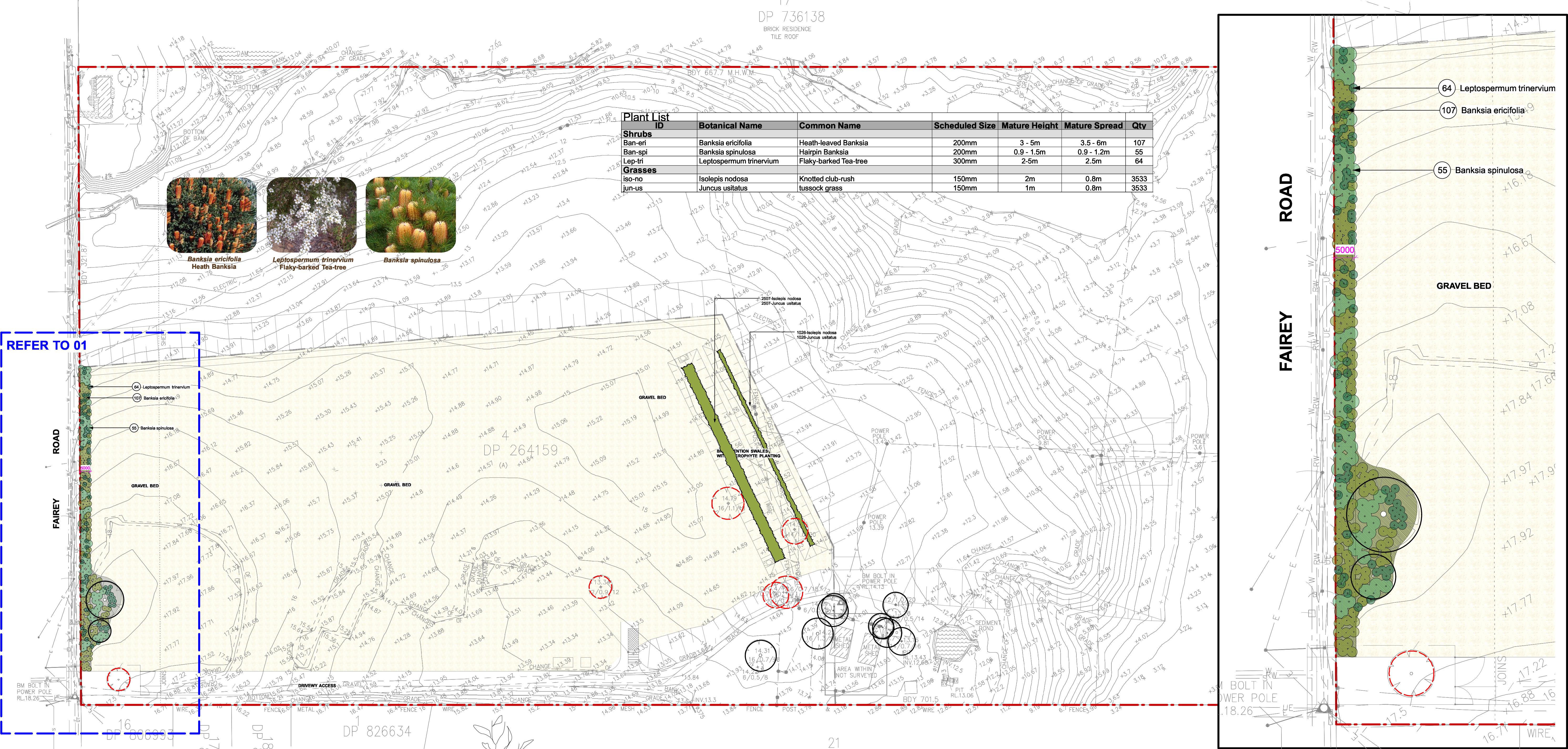
Demountable Amenities 6.0mx3.0m Specification List	
Standard Inclusions	Standard Finishes
2 External plain metal door 2043 x 886	Exterior:
5 Windows 350 x 755 with flyscreens and obscured glazing	Trimdeck roof cladding (Surfmist)
2 Diffused LED batten lights, 38W	CCS Mesa cladding to exterior walls (Merino)
1 Diffused LED dome light, 15W	R1.5 glasswool batts (ceiling)
2 Double socket GPO's, 10 Amps	Interior:
1 Single socket GPO, 10 Amps	Pre-finished polyester plywood linings to ceilings (Mirage Pearl)
1 Load centre & power entry box	Pre-finished polyester plywood linings to walls (White Smoke)
1 50L 3.6kw Hot Water System	Non slip vinyl floor coverings (Sand Grey)
4 Full height (1550 x 900) sanitary partitions	100mm non slip vinyl skirtings
5 Vitreous china toilet suites	D Mould cornice throughout
5 Chrome toilet roll holders	
1 Urinal, 2400mm long	
5 Stainless steel basins w/flick mixer (H&C) and 250mm acrylic	



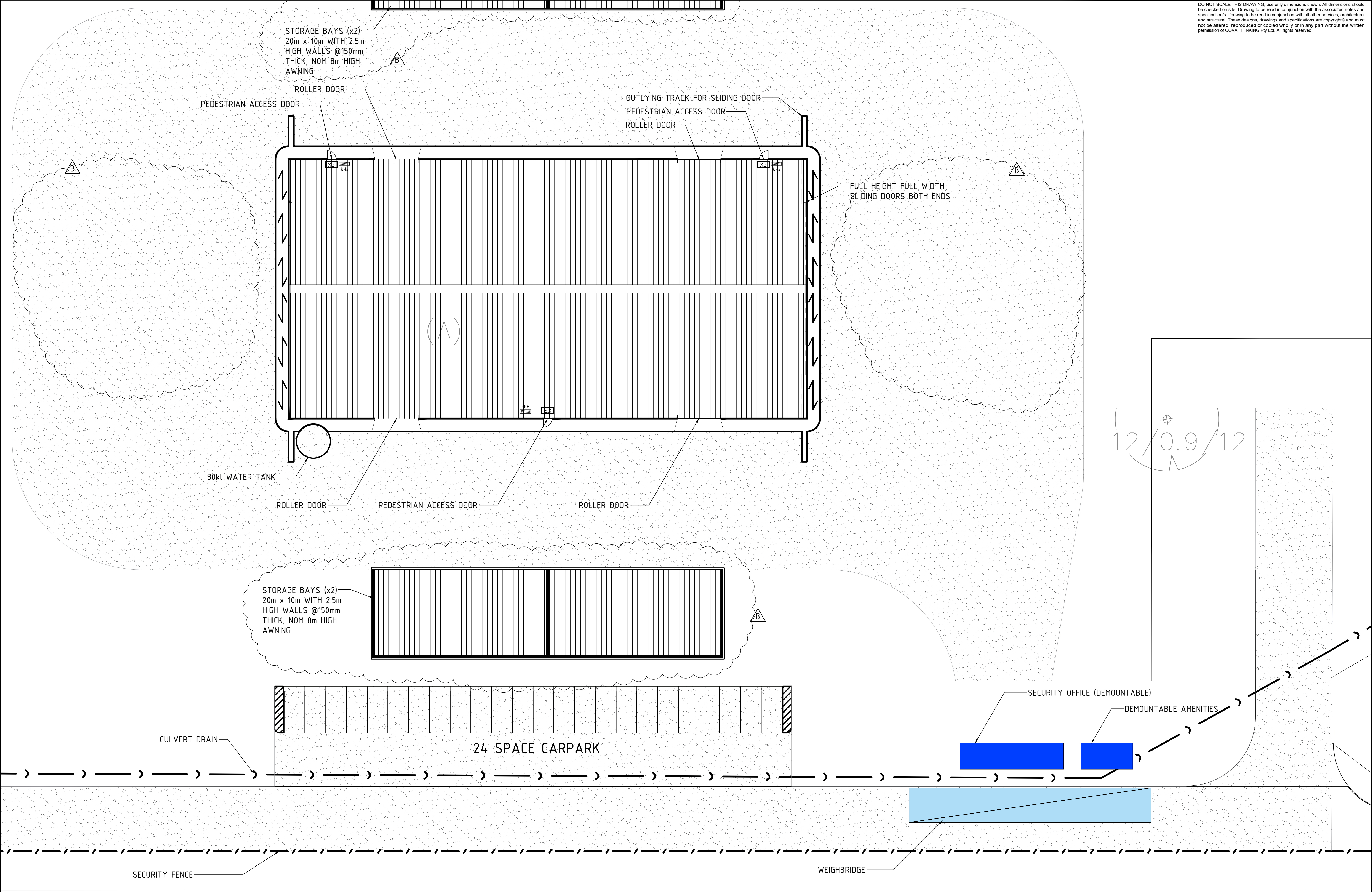
TYPICAL SECTION THROUGH DEMOUNTABLES
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100

DA APPROVAL

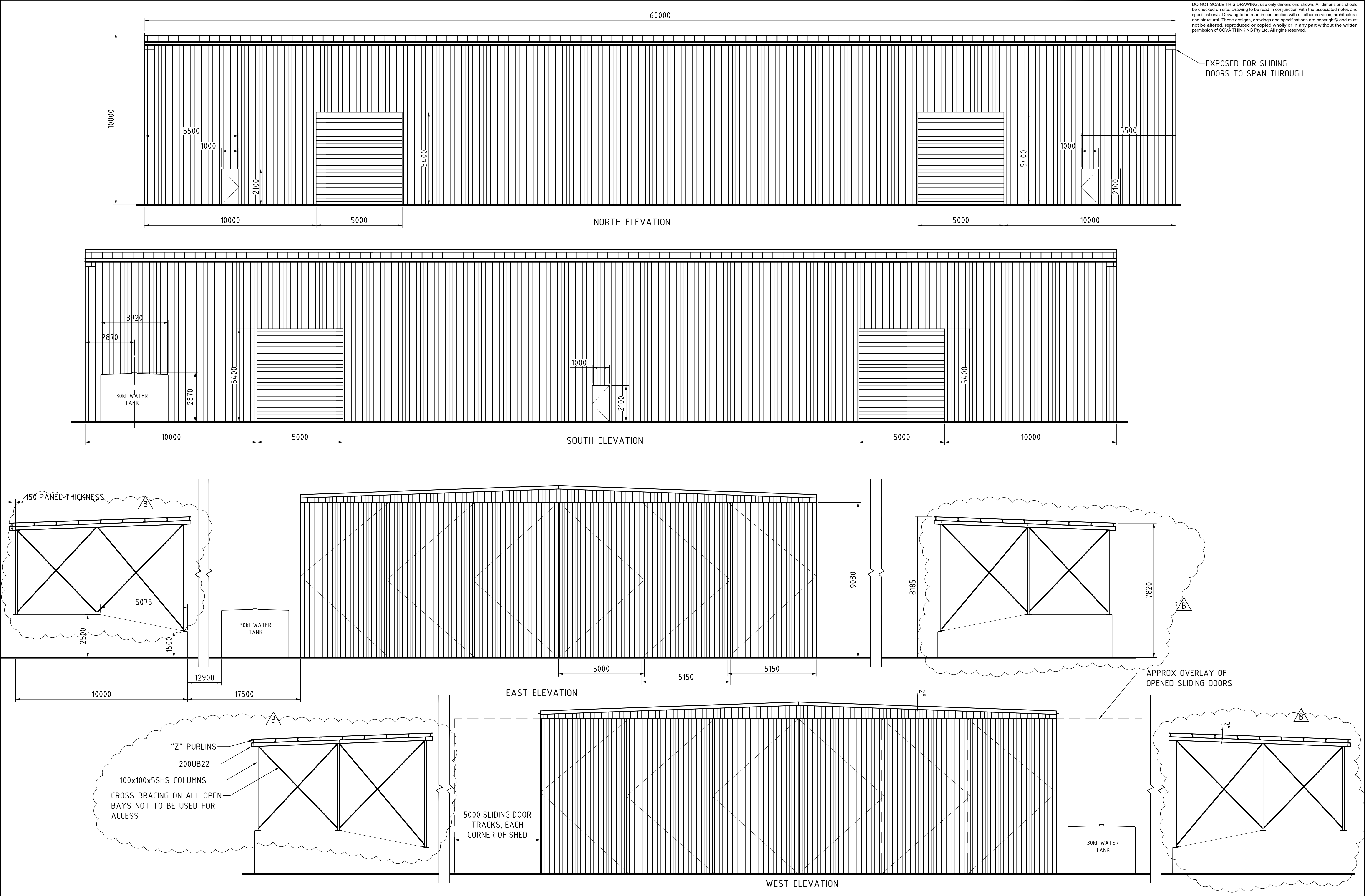
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	SCALE: AS SHOWN ON PLAN				PLANNER: MACRO PLAN		



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				DRAWING CHECK		CO-ORDINATION CHECK		CLIENT ANDY'S EARTHWORKS PTY LTD	COVA Stronger Together 1300 35 7363 covathinking.com ACN 117 492 814	PROJECT 100 FAIREY STREET SOUTH WINDSOR	TITLE SANDSTONE RECYCLING PLANT PLAN AND TRAFFIC PATHWAYS	20000200040006000 A1			
				SIGNATURE	DATE	SIGNATURE	DATE					STATUS PRELIMINARY ONLY			
				DRAWN RLM	22.08.19	STRUCT.						SCALE @ A1 1:100			
				DESIGNED		MECH.						DIMENSIONS IN MILLIMETRES			
				CHECKED		ELECT.						DRAWING No.			
				CLIENT		HYDR./CIVIL						5388.001-G02			
				FIRE/ENV.								REV. B			
B	OPEN STOCKPILE REMOVED, WALLED IN MATERIAL HAS AWNING ADDED			RLM											
A	PRELIMINARY ISSUE			RLM	20.08.19										
REV.	DESCRIPTION	DRN	CHK	APP.	DATE										



				DRAWING CHECK		CO-ORDINATION CHECK		CLIENT		PROJECT		TITLE			
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