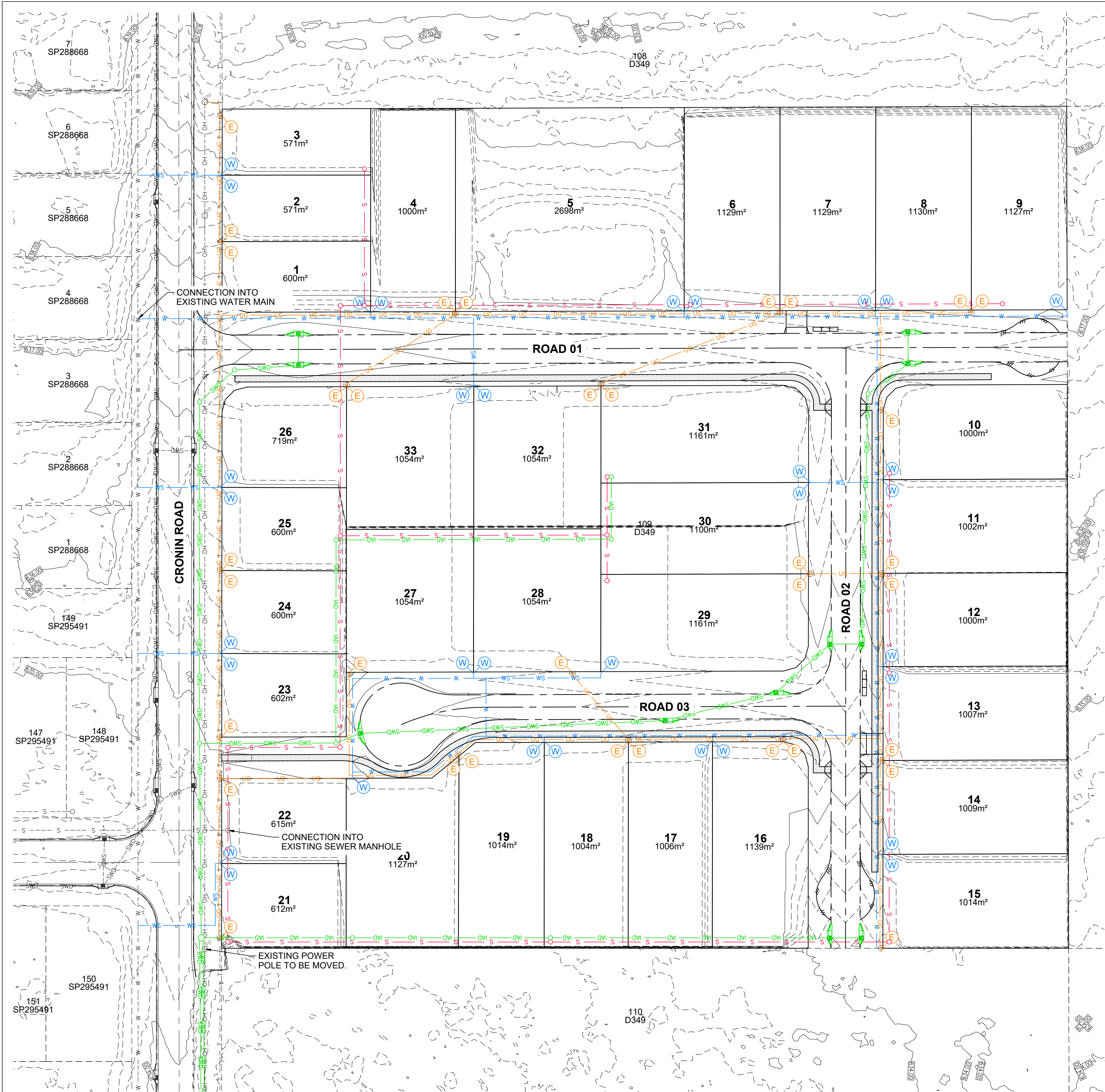


APPENDIX D - ENGINEERING PLANS

Kehoe Myers Consulting Engineers



NOTE:
+ ALL SHOWN SERVICES ARE FROM ON SITE VISUAL INSPECTIONS AND EXISTING RECORDS ONLY. CONTRACTOR TO CONFIRM LOCATION AND DEPTH OF ALL INGROUND SERVICES PRIOR TO ANY EXCAVATION.

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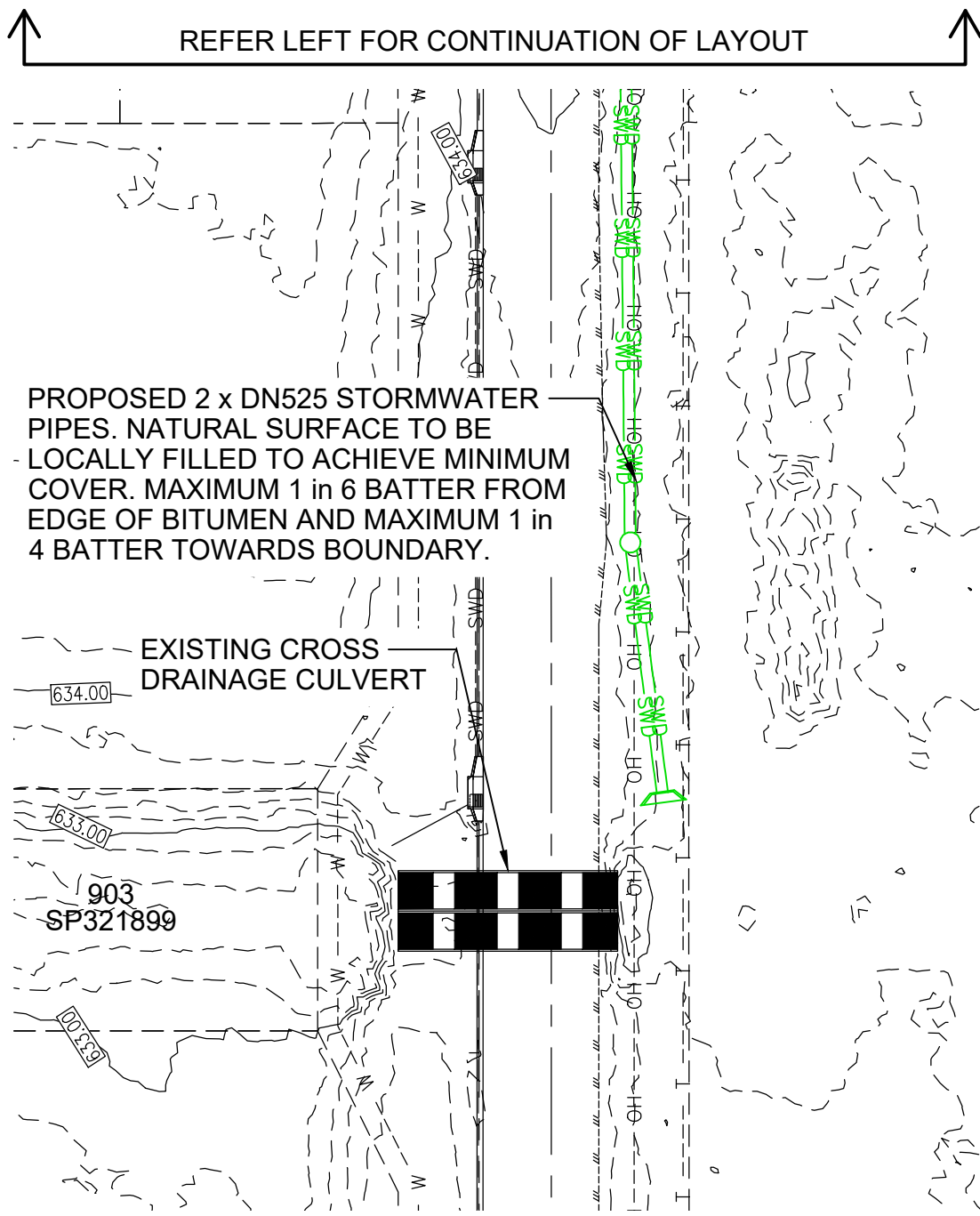
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ISSUE	DATE	DETAILS	INITIAL
P1	01.07.26	FOR INFORMATION	

0 5m 10m 15m 20m 25m

SCALE 1:500 @ A1
SCALE 1:1,000 @ A3



PROPOSED 2 x DN525 STORMWATER PIPES. NATURAL SURFACE TO BE LOCALLY FILLED TO ACHIEVE MINIMUM COVER. MAXIMUM 1 in 6 BATTER FROM EDGE OF BITUMEN AND MAXIMUM 1 in 4 BATTER TOWARDS BOUNDARY.

EXISTING CROSS DRAINAGE CULVERT



SERVICES LEGEND

PROPOSED WORKS	
	PROPOSED LAYBACK KERB AND CHANNEL.
	PROPOSED STORMWATER DRAINAGE PIPE, MANHOLE, GULLY AND HEADWALL
	PROPOSED INTERALLOTMENT DRAINAGE PIPE AND MANHOLE
	PROPOSED SEWER MAIN AND MANHOLE
	PROPOSED WATER MAIN
	PROPOSED WATER METER AND SERVICE (BY OTHERS)
	PROPOSED UNDERGROUND ELECTRICAL LINE
	PROPOSED ELECTRICAL PILLAR BOX
	MAJOR DESIGN SURFACE CONTOUR (1.0m INTERVALS)
	MINOR EXISTING SURFACE CONTOUR (0.2m INTERVALS)

EXISTING WORKS	
	EXISTING BITUMEN EDGE
	EXISTING KERB AND CHANNEL.
	EXISTING STORMWATER DRAINAGE PIPE
	EXISTING OPEN DRAIN AND DIRECTION
	EXISTING SEWER MAIN AND MANHOLE
	EXISTING WATER MAIN
	EXISTING OVERHEAD ELECTRICAL LINES AND POWER POLES
	EXISTING TELECOMMUNICATION LINES

PRELIMINARY SERVICES LAYOUT

SCALE:- 1:500 @ A1, 1:1000 @ A3

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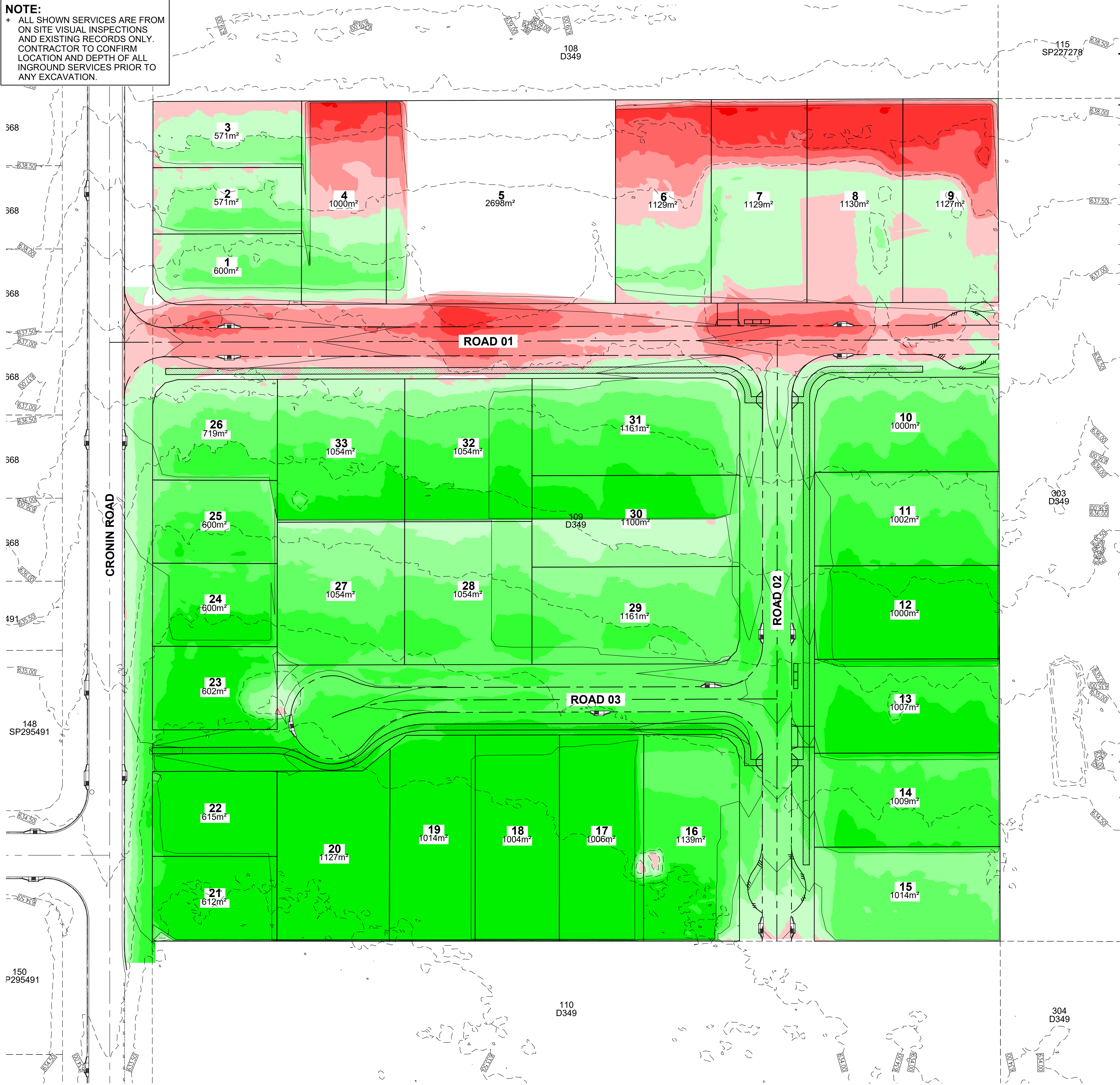
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TAHMER PTY LTD

PROJECT
CRONIN ROAD HIGHFIELDS - SUBDIVISION

DRAWING TITLE
PRELIMINARY SERVICES LAYOUT

DESIGN	MDP	ORIGINAL SIZE	A1
DRAWN	MDP	PROJECT NUMBER	C2425076
CHECKED	FJB	DRAWING NUMBER	PR02
APPROVED		ISSUE	P1

NOTE:
+ ALL SHOWN SERVICES ARE FROM ON SITE VISUAL INSPECTIONS AND EXISTING RECORDS ONLY. CONTRACTOR TO CONFIRM LOCATION AND DEPTH OF ALL INGROUND SERVICES PRIOR TO ANY EXCAVATION.



**SURFACE ANALYSIS
DEPTH RANGES**

Colour	Minimum Depth (m)	Maximum Depth (m)	2D Area (m²)	Volume (m³)
[Red]	-5.00	-1.00	19.2	0.3
[Red]	-1.00	-0.75	888.3	92.0
[Red]	-0.75	-0.50	1236.9	374.6
[Red]	-0.50	-0.25	2051.4	770.7
[Red]	-0.25	0.00	2660.4	1338.7
[Light Green]	0.00	0.25	4757.6	7675.8
[Light Green]	0.25	0.50	4786.4	6510.4
[Light Green]	0.50	0.75	7597.5	5020.6
[Light Green]	0.75	1.00	6866.4	3038.4
[Light Green]	1.00	5.00	9085.3	3657.5

PRELIMINARY QUANTITIES

CUT	(m³)	2,576
FILL	(m³)	25,903
BALANCE	(m³)	23,327 (FILL REQUIRED)

NOTE:

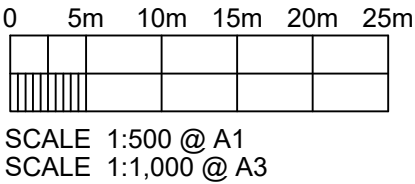
- THESE QUANTITIES ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL QUANTITIES.
- QUANTITIES ARE DIRECT FROM 12d EARTHWORKS MODEL. NO BULKING FACTORS HAVE BEEN TAKEN INTO ACCOUNT.
- CONTRACTOR SHALL INSTALL ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES WHERE NECESSARY.
- PRELIMINARY QUANTITIES DO NOT INCLUDE TRENCH SPOIL OR BOXING VOLUMES. CONTRACTOR IS TO ALLOW FOR ADEQUATE PROVISIONS FOR EXCESS SPOIL.

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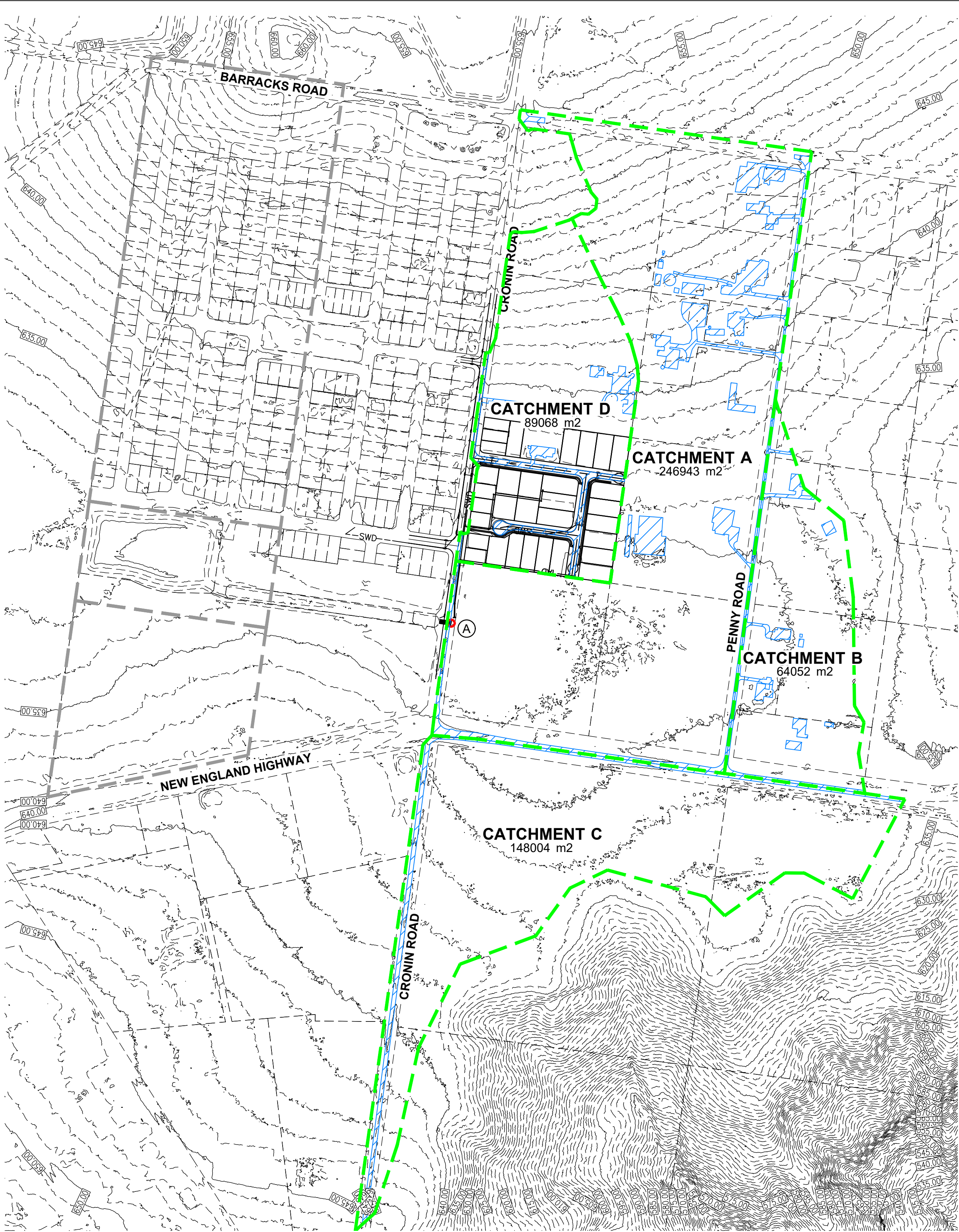
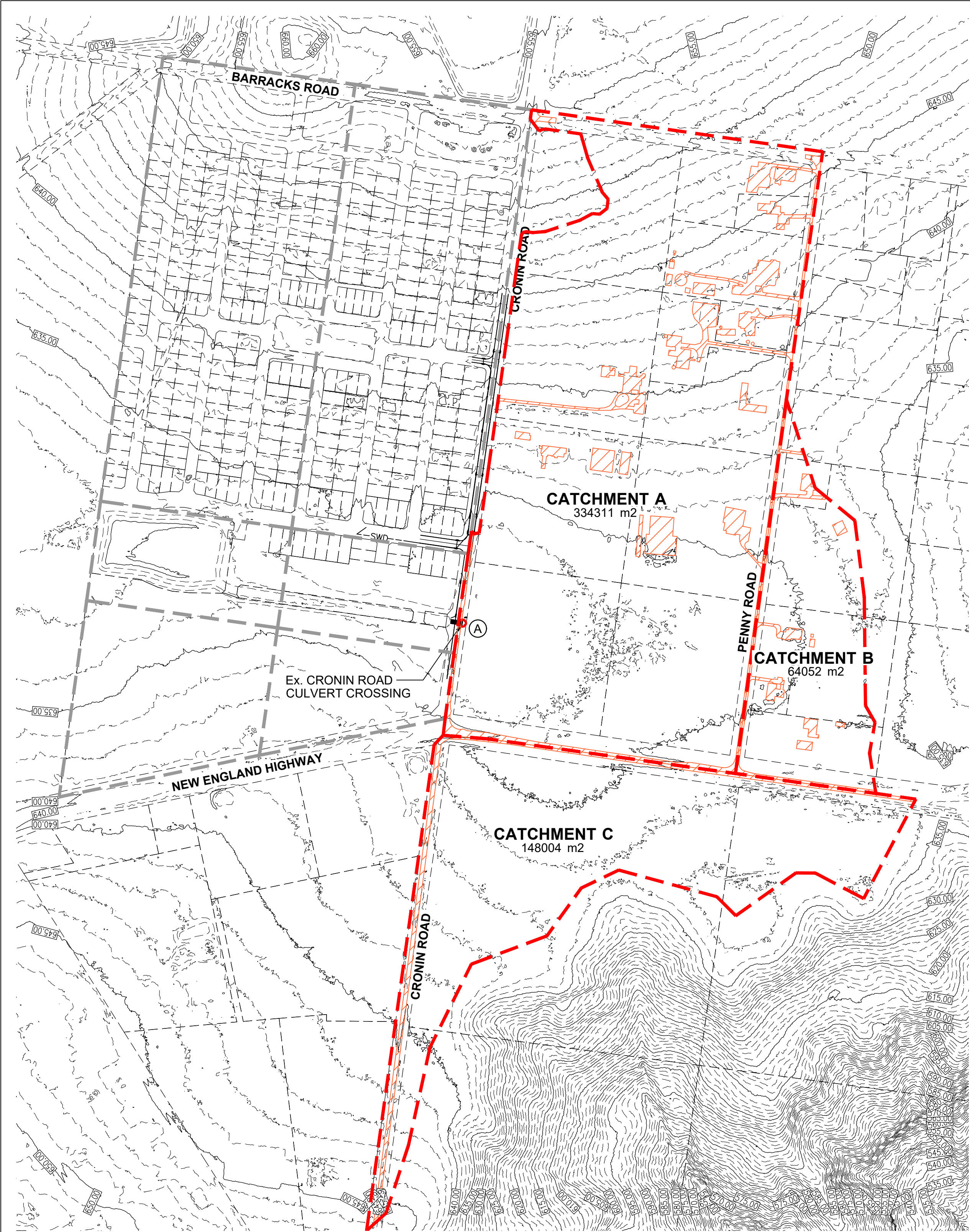
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CLIENT
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PROJECT
CRONIN ROAD HIGHFIELDS -
SUBDIVISION

DRAWING TITLE
PRELIMINARY EARTHWORKS
LAYOUT

DESIGN	MDS	ORIGINAL SIZE	A1
DRAWN	MDS	PROJECT NUMBER	C2425076
CHECKED	FJS		
APPROVED		DRAWING NUMBER	PR03
DATE		ISSUE	P1

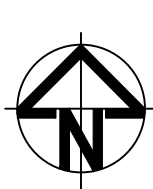


**PRELIMINARY STORMWATER
CATCHMENT LAYOUTS**
SCALE:- 1:4,000 @ A1, 1:8,000 @ A3

STORMWATER CATCHMENT LEGEND

	PRE-DEVELOPED CATCHMENT BOUNDARY
	POST-DEVELOPED CATCHMENT BOUNDARY
	PRE-DEVELOPED NON-PERVIOUS AREAS
	POST DEVELOPED NON-PERVIOUS AREAS
	PROPOSED STORMWATER DRAINAGE PIPE, MANHOLE AND GULLY
	PROPOSED KERB INVERT
	EXISTING STORMWATER PIPE, MANHOLE AND GULLY
	DISCHARGE NODE

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PROJECT
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SUBDIVISION

DRAWING TITLE
PRELIMINARY STORMWATER
CATCHMENT LAYOUTS

DESIGN	MD	ORIGINAL SIZE	A1
DRAWN	MD	PROJECT NUMBER	C2425076
CHECKED	FJS		
APPROVED		DRAWING NUMBER	SWM01
DATE		ISSUE	P1

