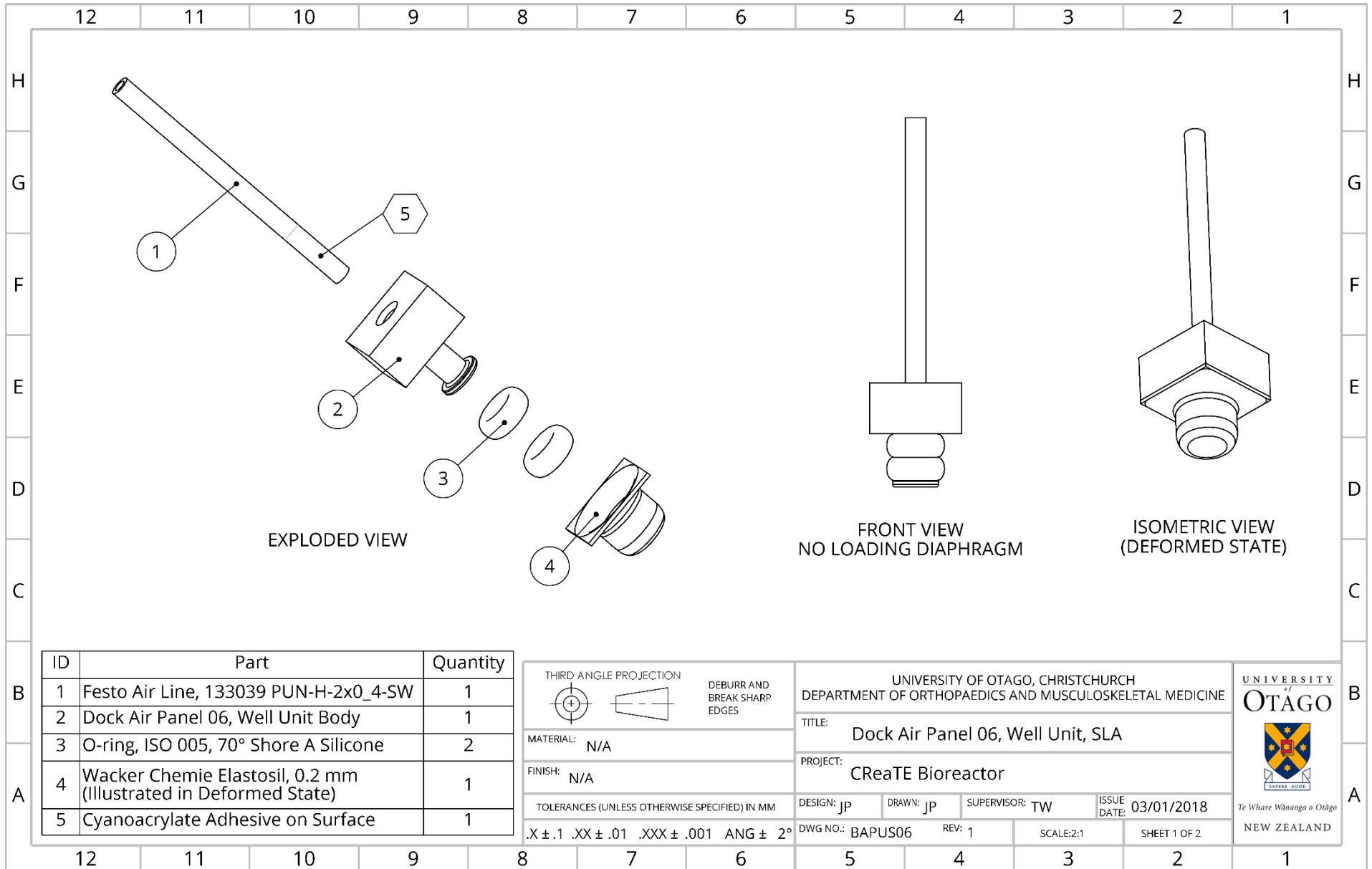
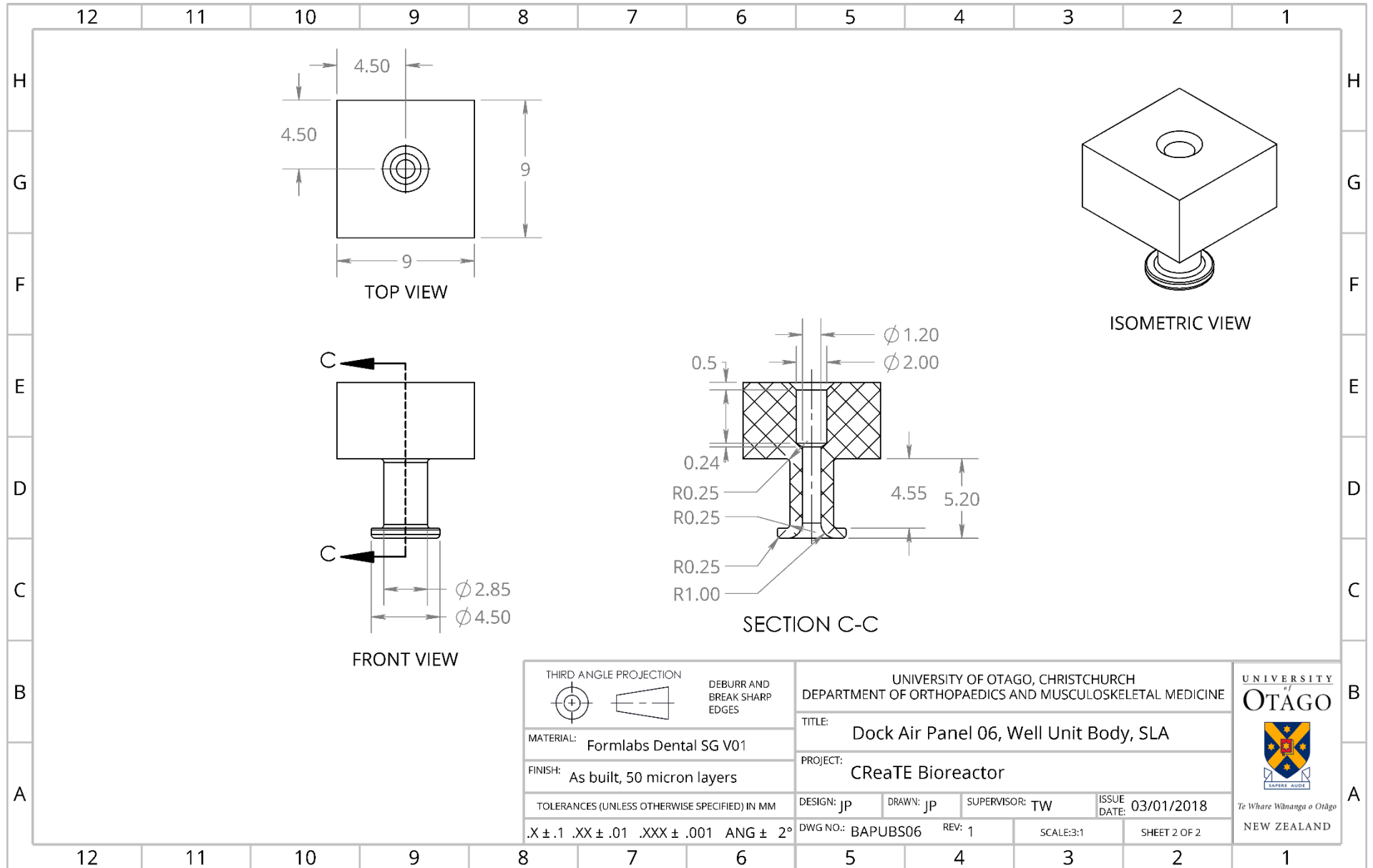


## Fundamental Units





UNIVERSITY OF OTAGO, CHRISTCHURCH  
DEPARTMENT OF ORTHOPAEDICS AND MUSCULOSKELETAL MEDICINE

TITLE: Dock Air Panel 06, Well Unit Body, SLA

PROJECT: CReaTE Bioreactor

DESIGN: jp DRAWN: jp SUPERVISOR: TW ISSUE DATE: 03/01/2018

DWG NO.: BAPUBS06 REV: 1 SCALE:3:1 SHEET 2 OF 2

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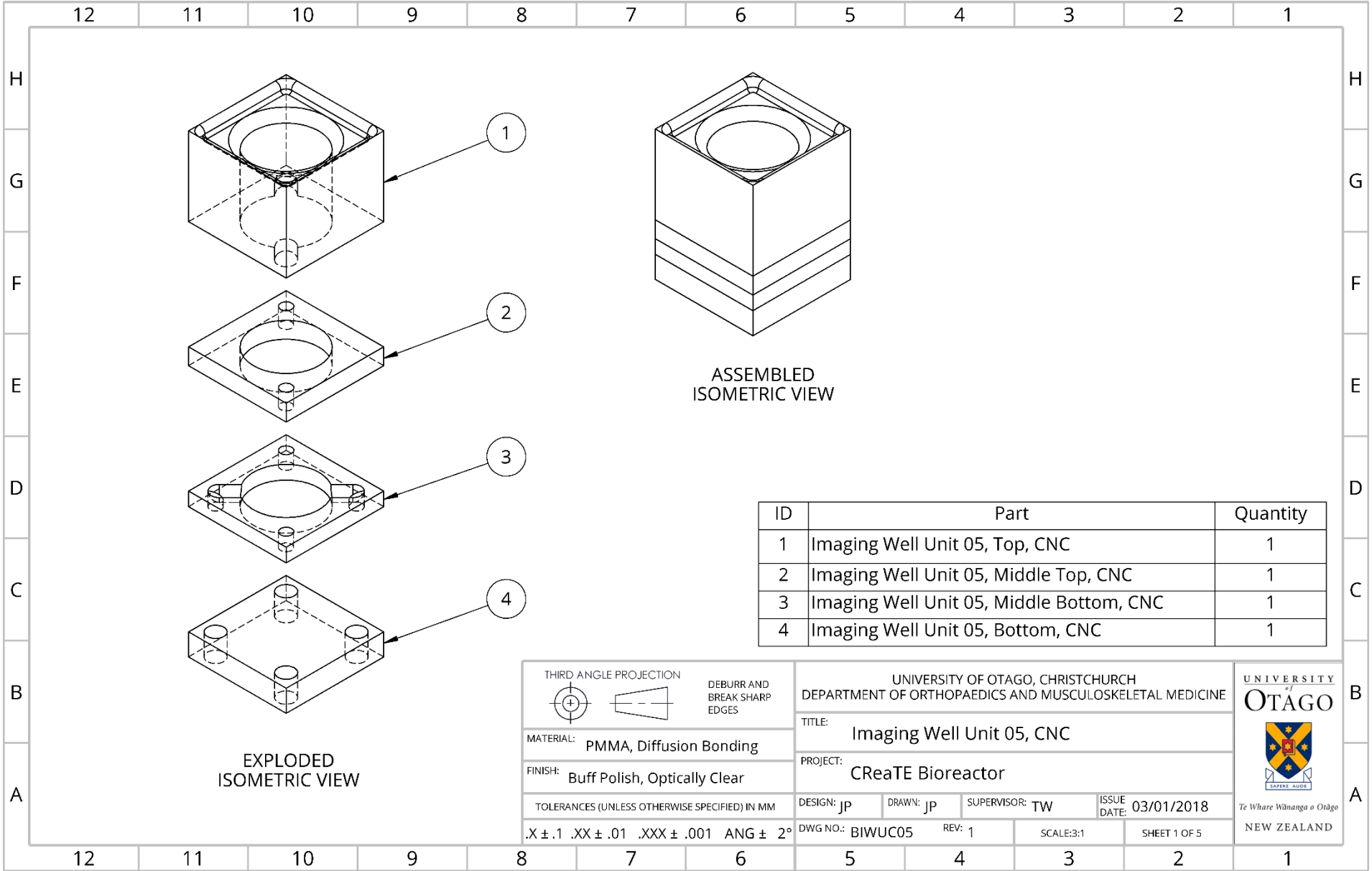
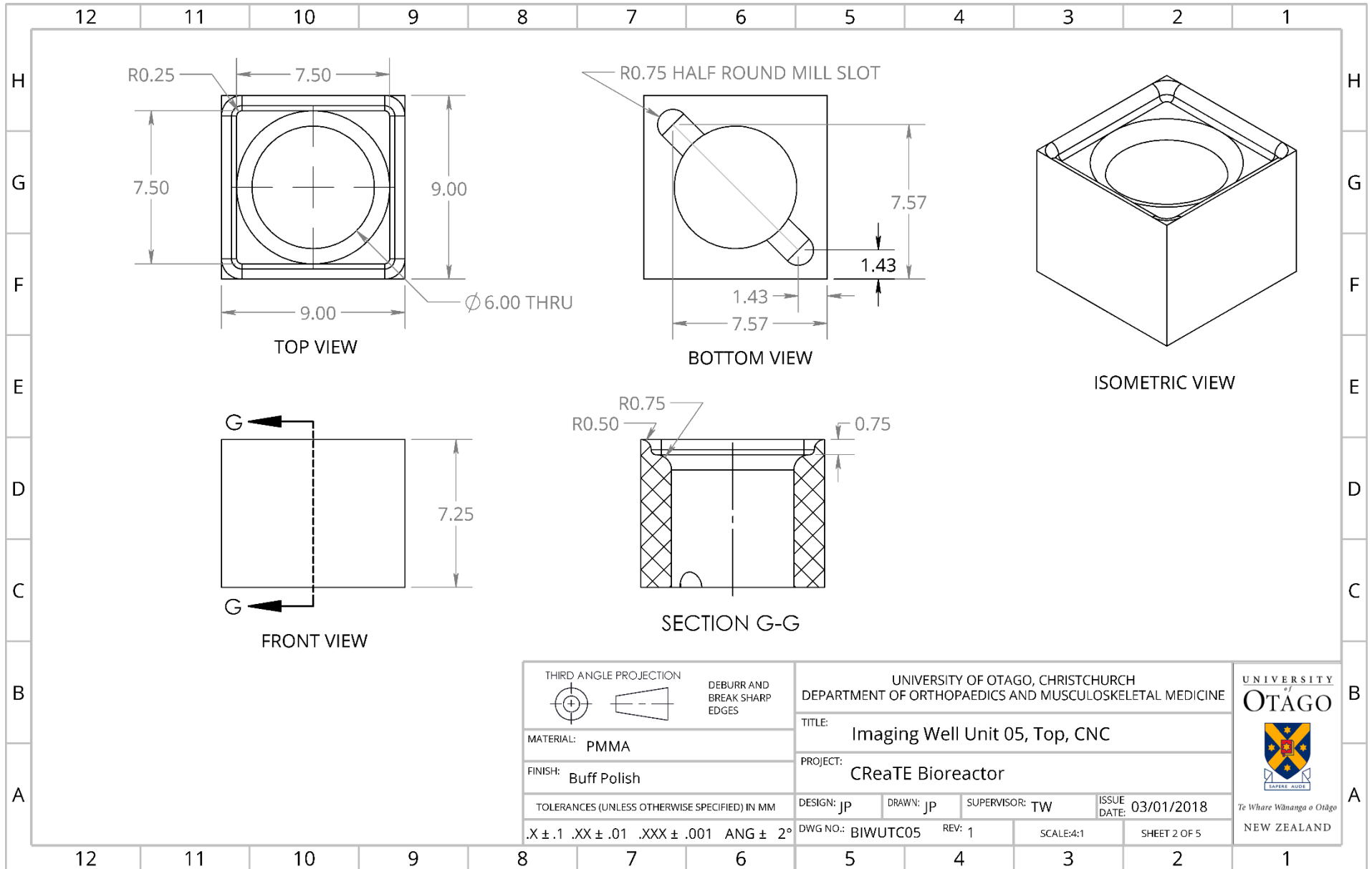
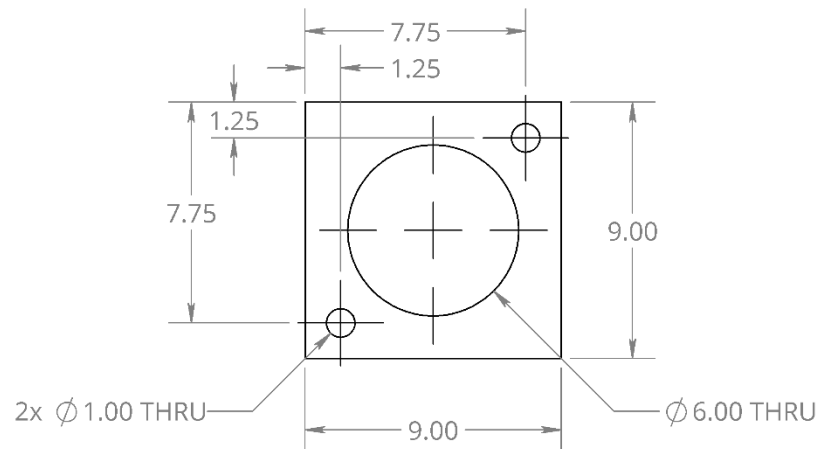


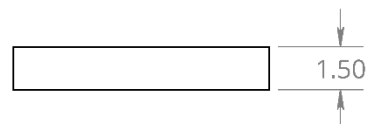
Figure 1: Exploded and Assembled Isometric Views of the Imaging Well Unit 05, CNC. The exploded view shows the four components (1, 2, 3, 4) and their assembly sequence. The assembled view shows the complete unit.



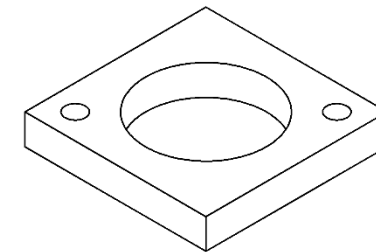




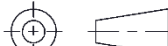
TOP VIEW



FRONT VIEW

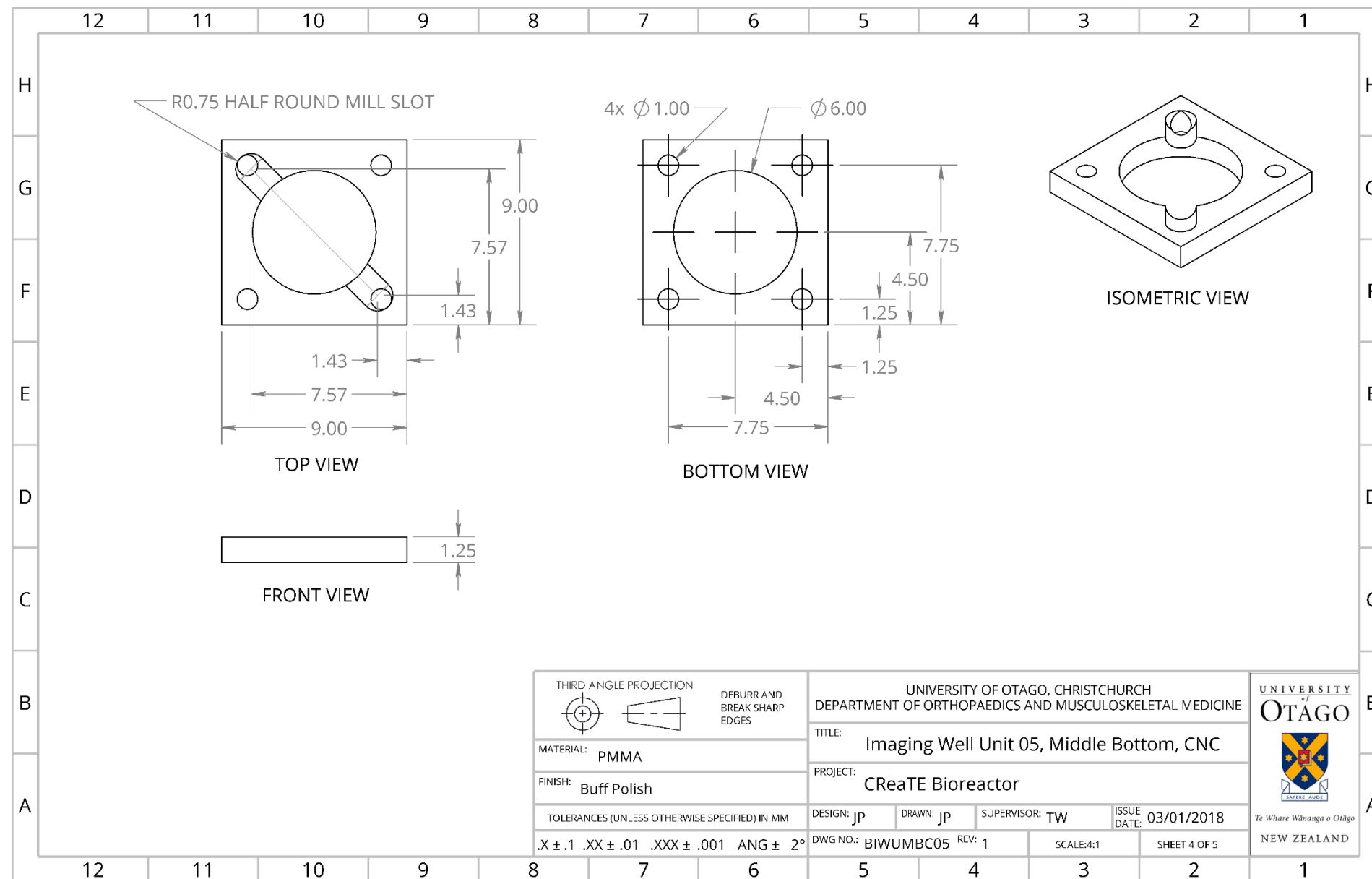


ISOMETRIC VIEW

THIRD ANGLE PROJECTION		DEBURR AND BREAK SHARP EDGES
		
MATERIAL: PMMA		
FINISH: Buff Polish		
TOLERANCES (UNLESS OTHERWISE SPECIFIED) IN MM		
.X ± .1 .XX ± .01 .XXX ± .001 ANG ± 2		

UNIVERSITY OF OTAGO, CHRISTCHURCH DEPARTMENT OF ORTHOPAEDICS AND MUSCULOSKELETAL MEDICINE			
TITLE: Imaging Well Unit 05, Middle Top, CNC			
PROJECT: CReaTE Bioreactor			
DESIGN: jp	DRAWN: jp	SUPERVISOR: TW	ISSUE DATE: 03/01/2018
DWG NO.: BIWUMTC05	REV: 1	SCALE: 4:1	SHEET 3 OF 5

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R0.75 HALF ROUND MILL SLOT


4x  $\varnothing 1.00$   $\varnothing 6.00$

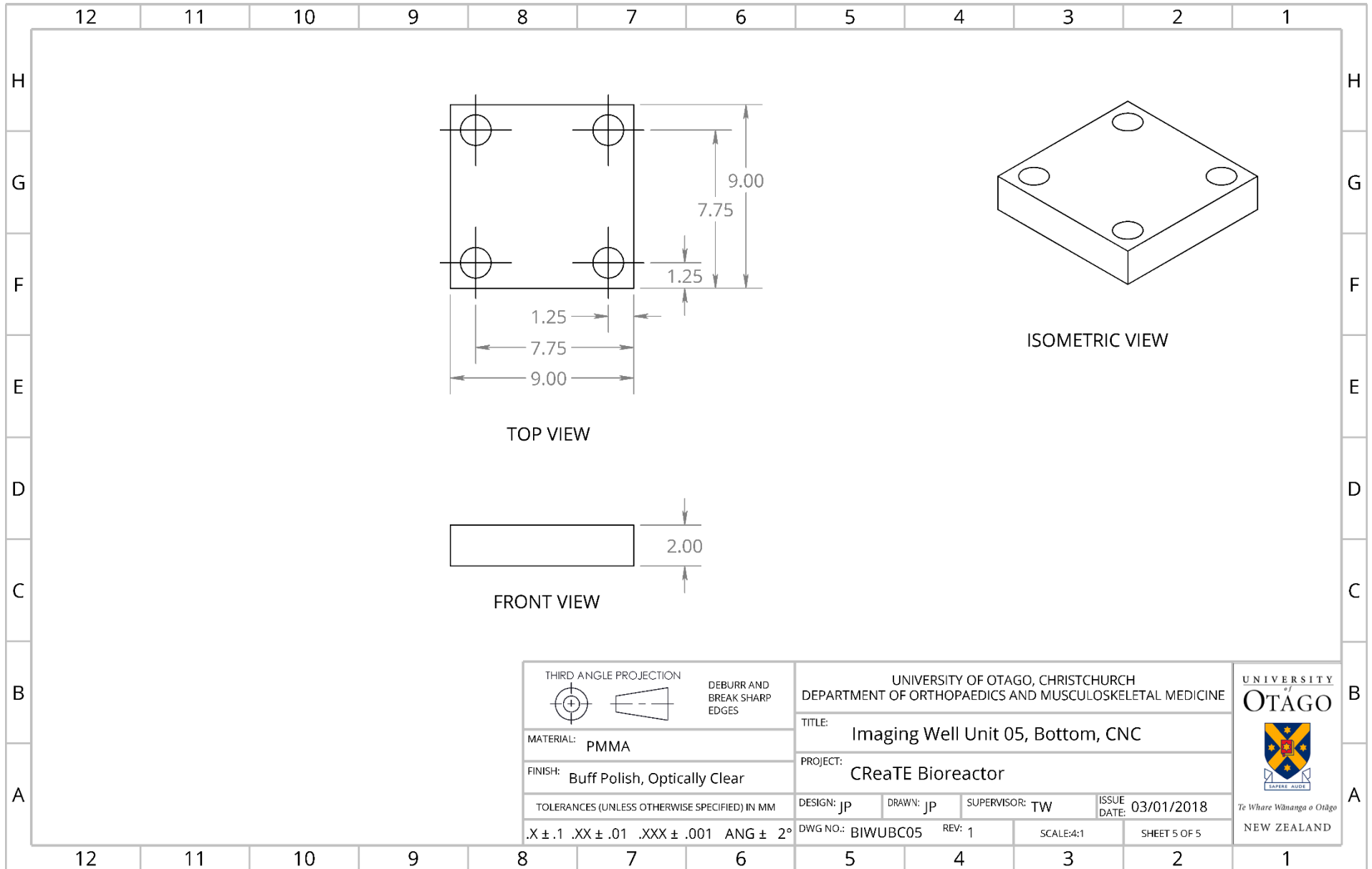
ISOMETRIC VIEW

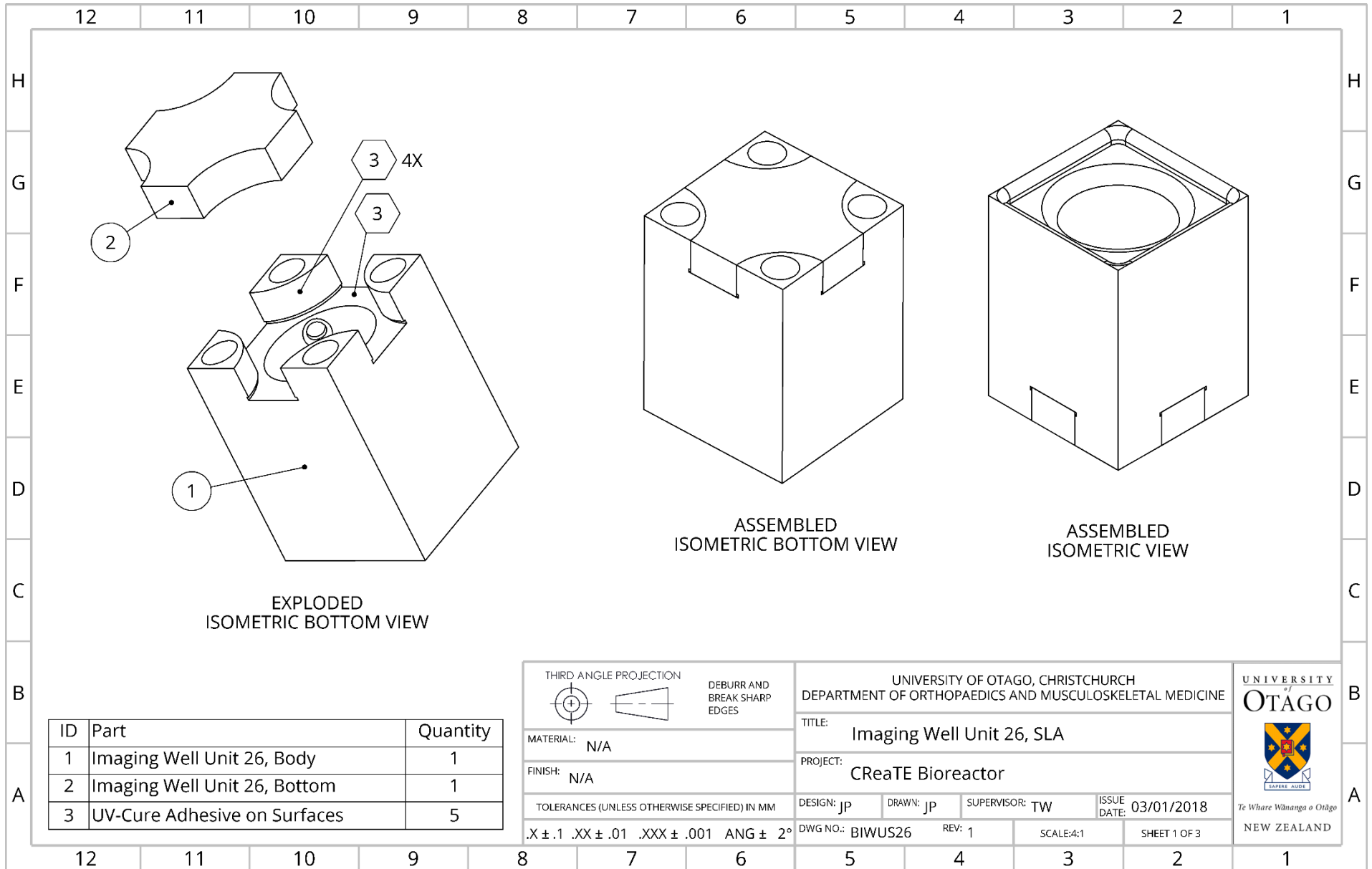
TOP VIEW

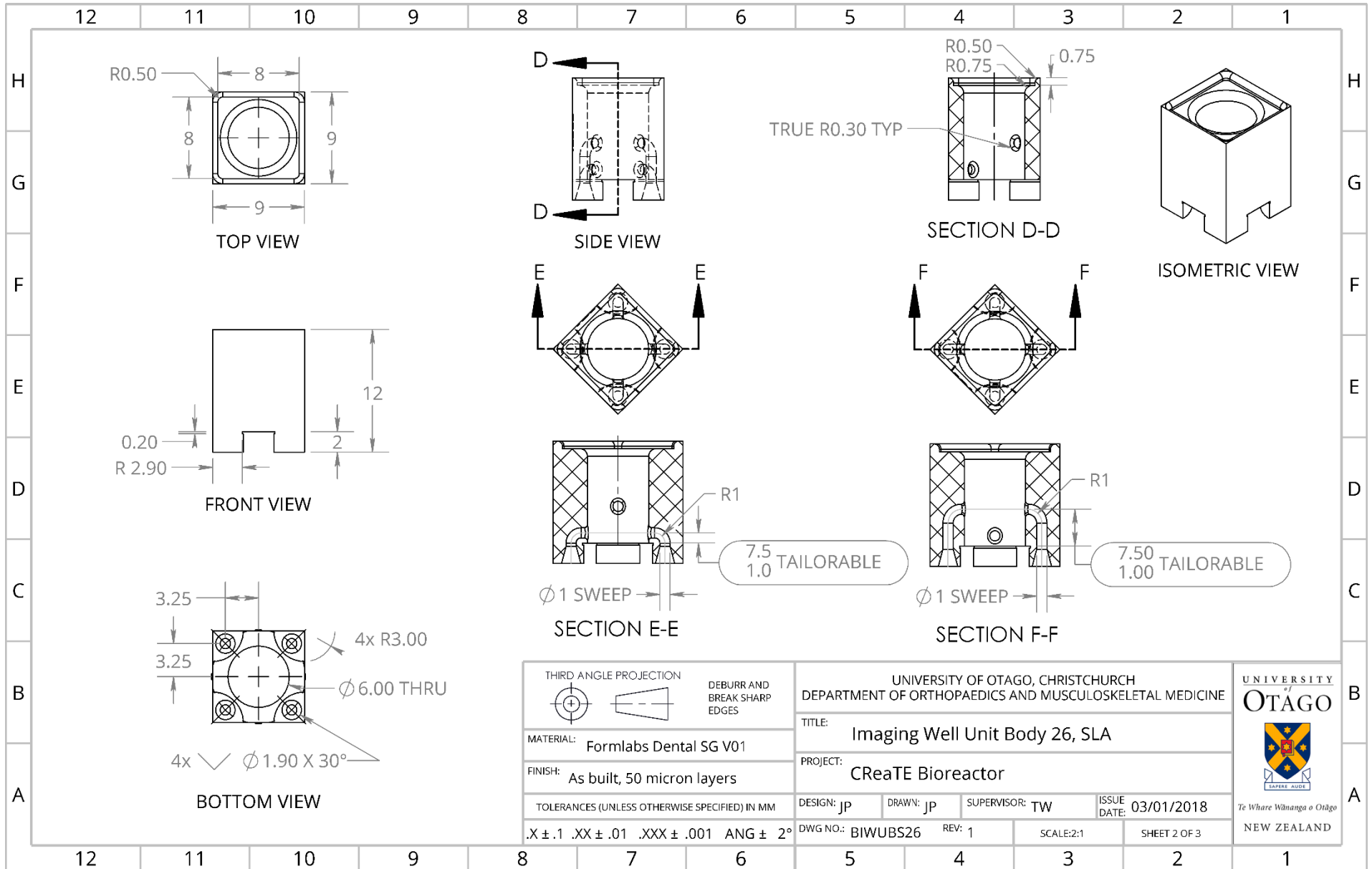
BOTTOM VIEW

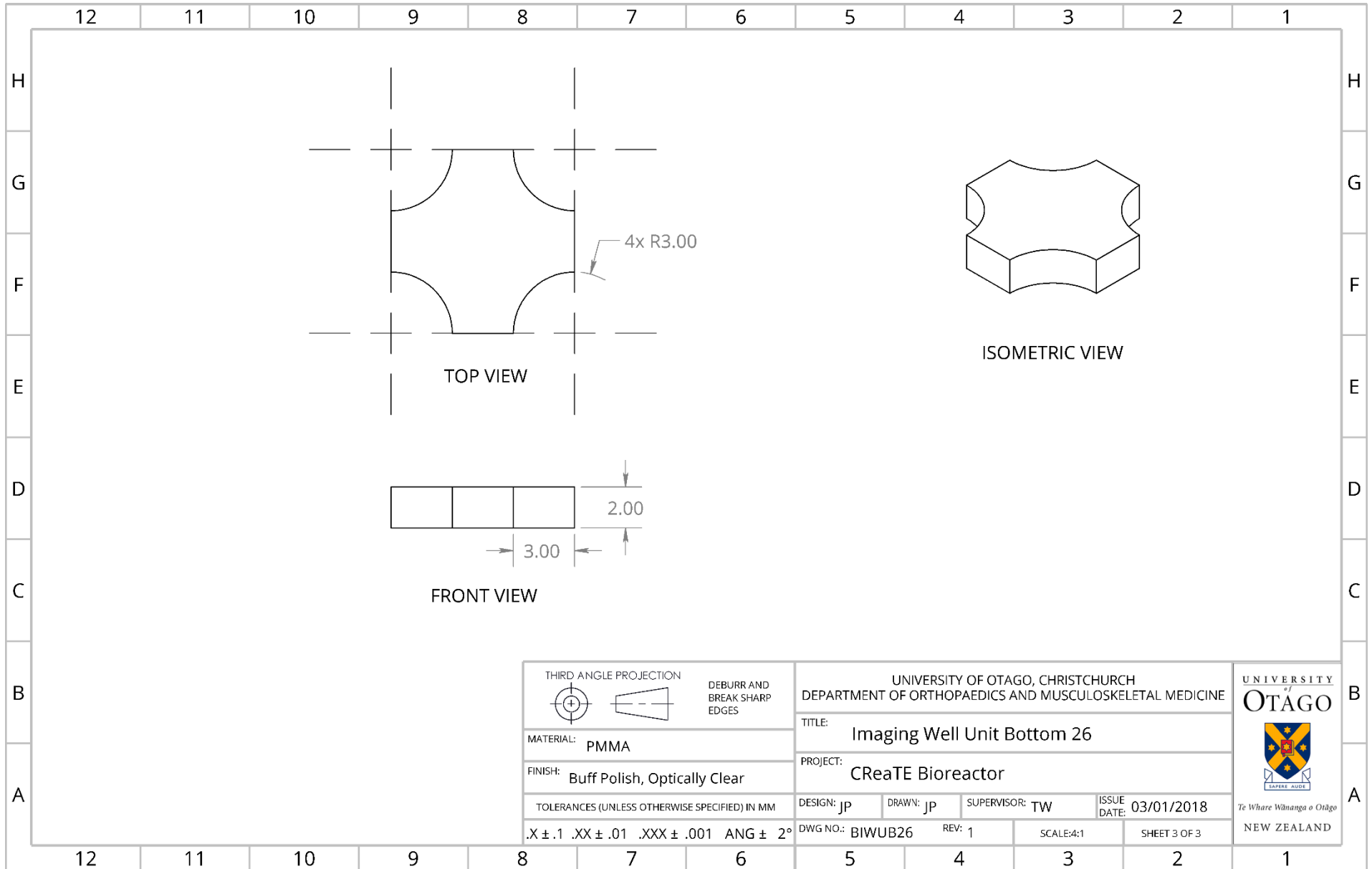
FRONT VIEW

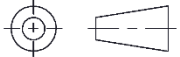
THIRD ANGLE PROJECTION		DEBURR AND BREAK SHARP EDGES		UNIVERSITY OF OTAGO, CHRISTCHURCH			
				DEPARTMENT OF ORTHOPAEDICS AND MUSCULOSKELETAL MEDICINE			
MATERIAL: PMMA				TITLE: Imaging Well Unit 05, Middle Bottom, CNC			
FINISH: Buff Polish				PROJECT: CReaTE Bioreactor			
TOLERANCES (UNLESS OTHERWISE SPECIFIED) IN MM		DESIGN: jp	DRAWN: jp	SUPERVISOR: TW	ISSUE DATE: 03/01/2018	 Te Whare Wānanga o Ōtago NEW ZEALAND	
.X ± .1 .XX ± .01 .XXX ± .001 ANG ± 2°		DWG NO.: BIWUMBC05		REV: 1	SCALE: 4:1		
						SHEET 4 OF 5	










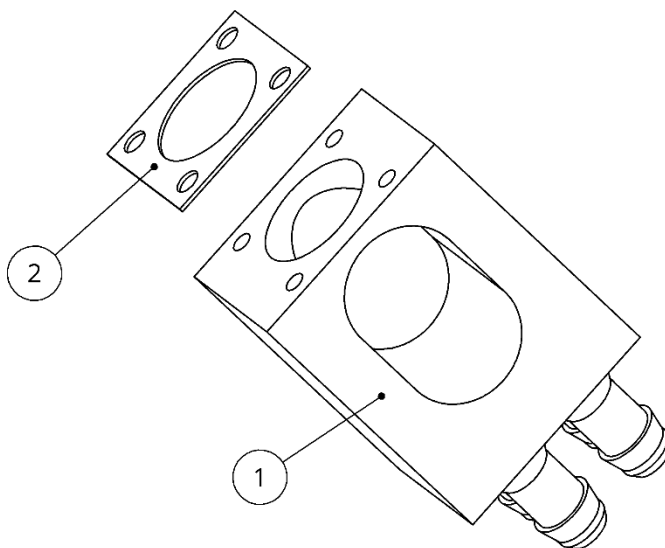
THIRD ANGLE PROJECTION		DEBURR AND BREAK SHARP EDGES
		
MATERIAL: PMMA		
FINISH: Buff Polish, Optically Clear		
TOLERANCES (UNLESS OTHERWISE SPECIFIED) IN MM		
.X ± .1 .XX ± .01 .XXX ± .001 ANG ± 2°		

UNIVERSITY OF OTAGO, CHRISTCHURCH DEPARTMENT OF ORTHOPAEDICS AND MUSCULOSKELETAL MEDICINE			
TITLE: Imaging Well Unit Bottom 26			
PROJECT: CReaTE Bioreactor			
DESIGN: JP	DRAWN: JP	SUPERVISOR: TW	ISSUE DATE: 03/01/2018
DWG NO.: BIWUB26	REV: 1	SCALE: 4:1	SHEET 3 OF 3

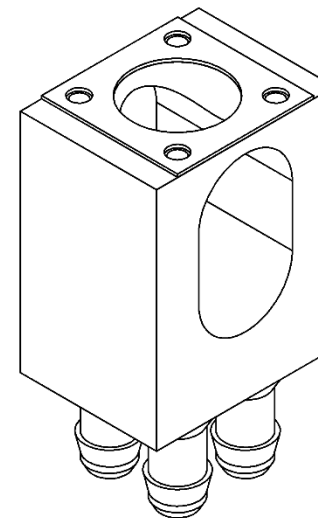
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EXPLODED VIEW



ASSEMBLED  
ISOMETRIC VIEW

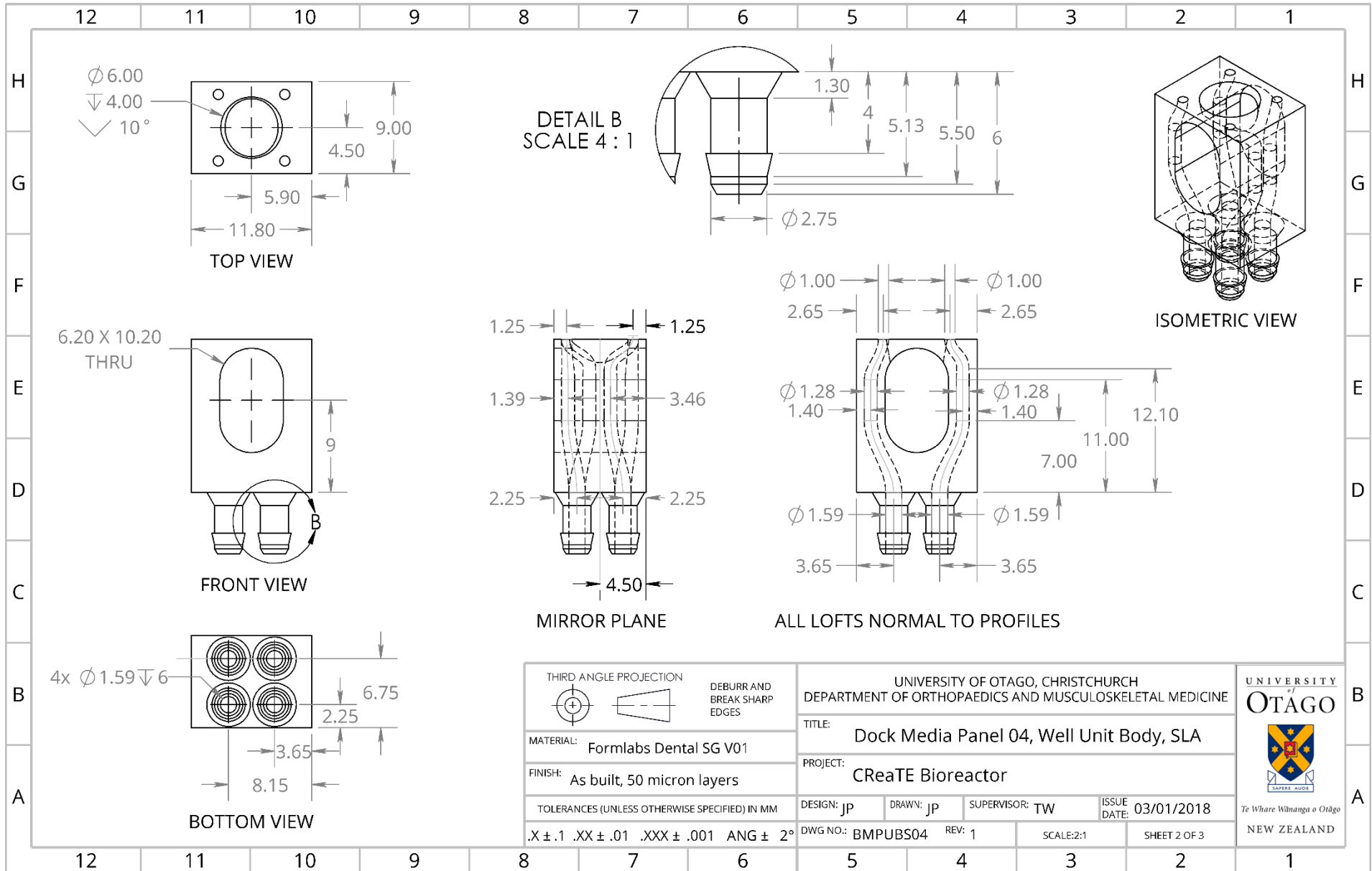
ID	Part	Quantity
1	Dock Medial Panel 04, Well Unit Body	1
2	Media Gasket 01, Well Unit	1

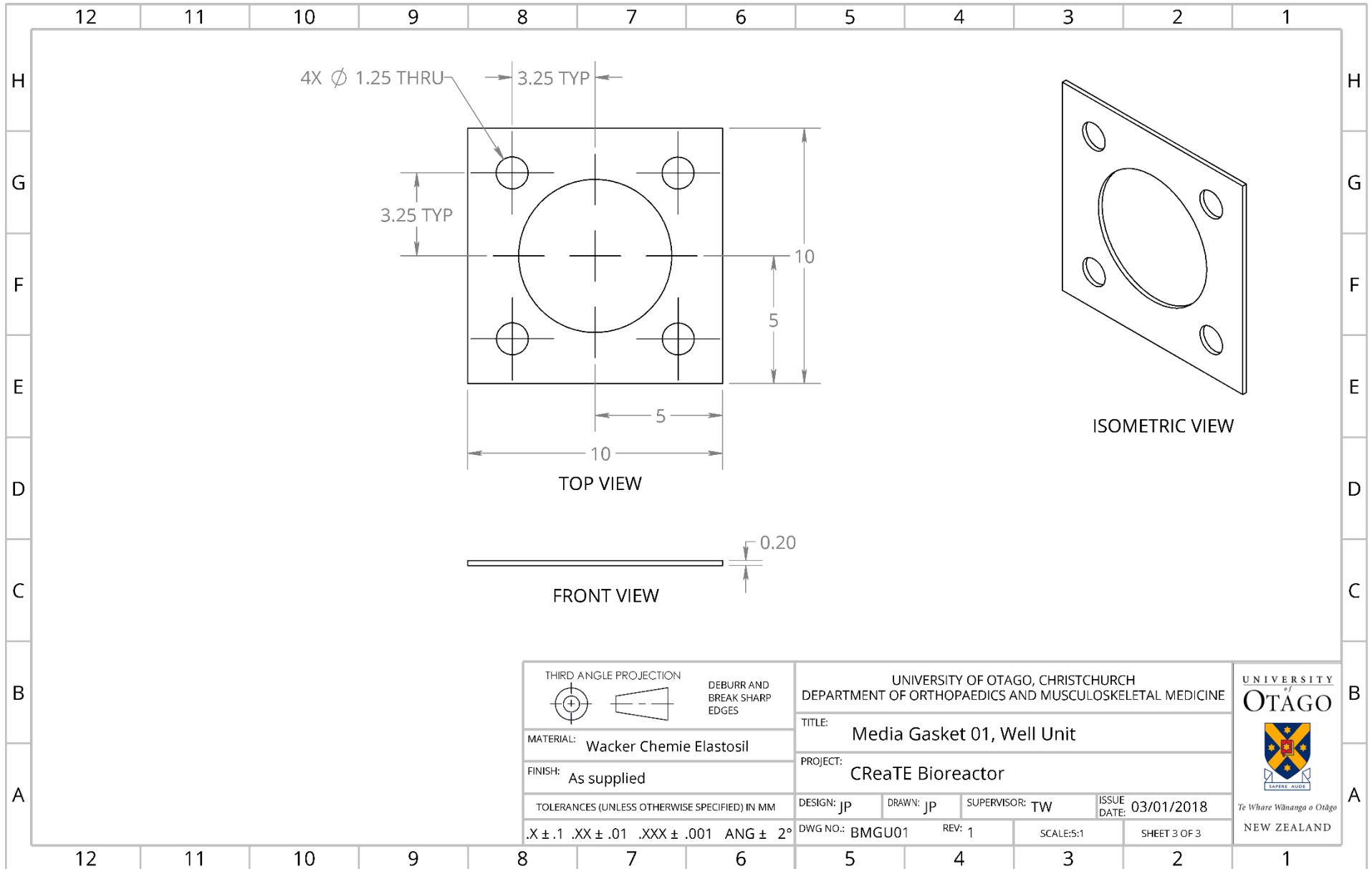
THIRD ANGLE PROJECTION		DEBURR AND BREAK SHARP EDGES
MATERIAL: N/A		
FINISH: N/A		
TOLERANCES (UNLESS OTHERWISE SPECIFIED) IN MM		
.X ± .1	.XX ± .01	.XXX ± .001 ANG ± 2°

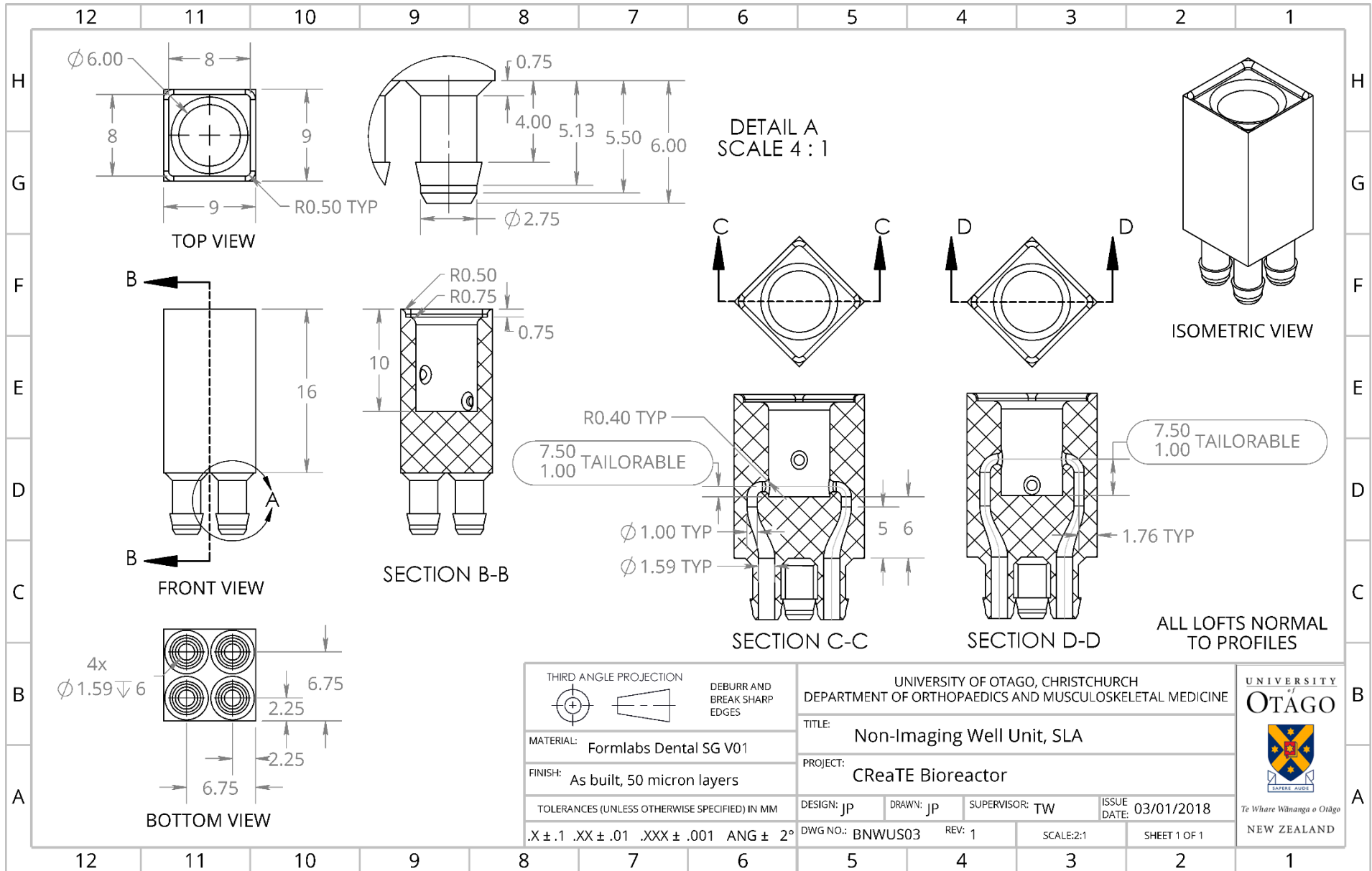
UNIVERSITY OF OTAGO, CHRISTCHURCH DEPARTMENT OF ORTHOPAEDICS AND MUSCULOSKELETAL MEDICINE			
TITLE: Dock Media Panel 04, Well Unit, SLA			
PROJECT: CReaTE Bioreactor			
DESIGN: jp	DRAWN: jp	SUPERVISOR: TW	ISSUE DATE: 03/01/2018
DWG NO.: BMPUS04	REV: 1	SCALE:3:1	SHEET 1 OF 3

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Te Whare Wānanga o Ōtago NEW ZEALAND

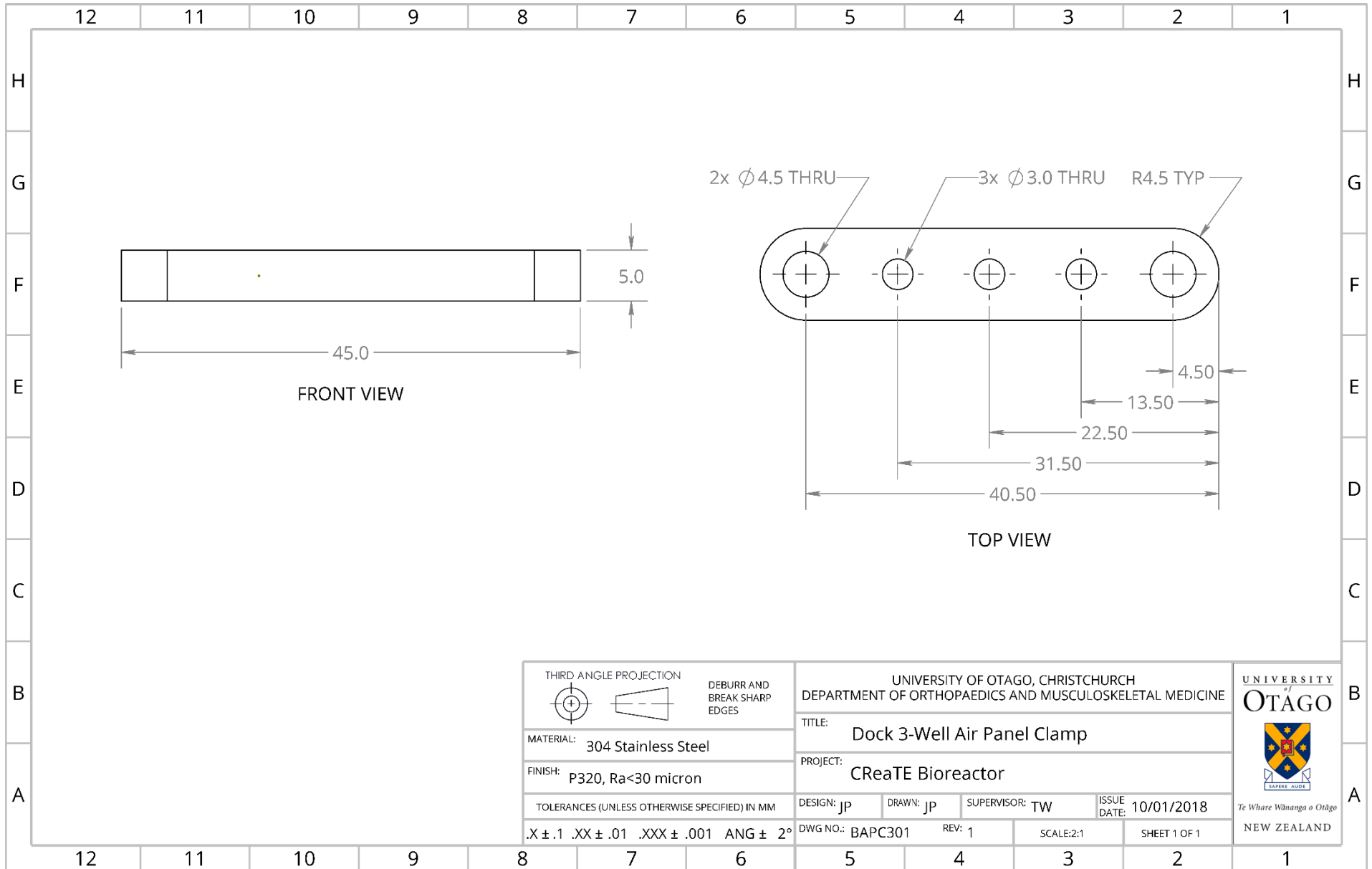


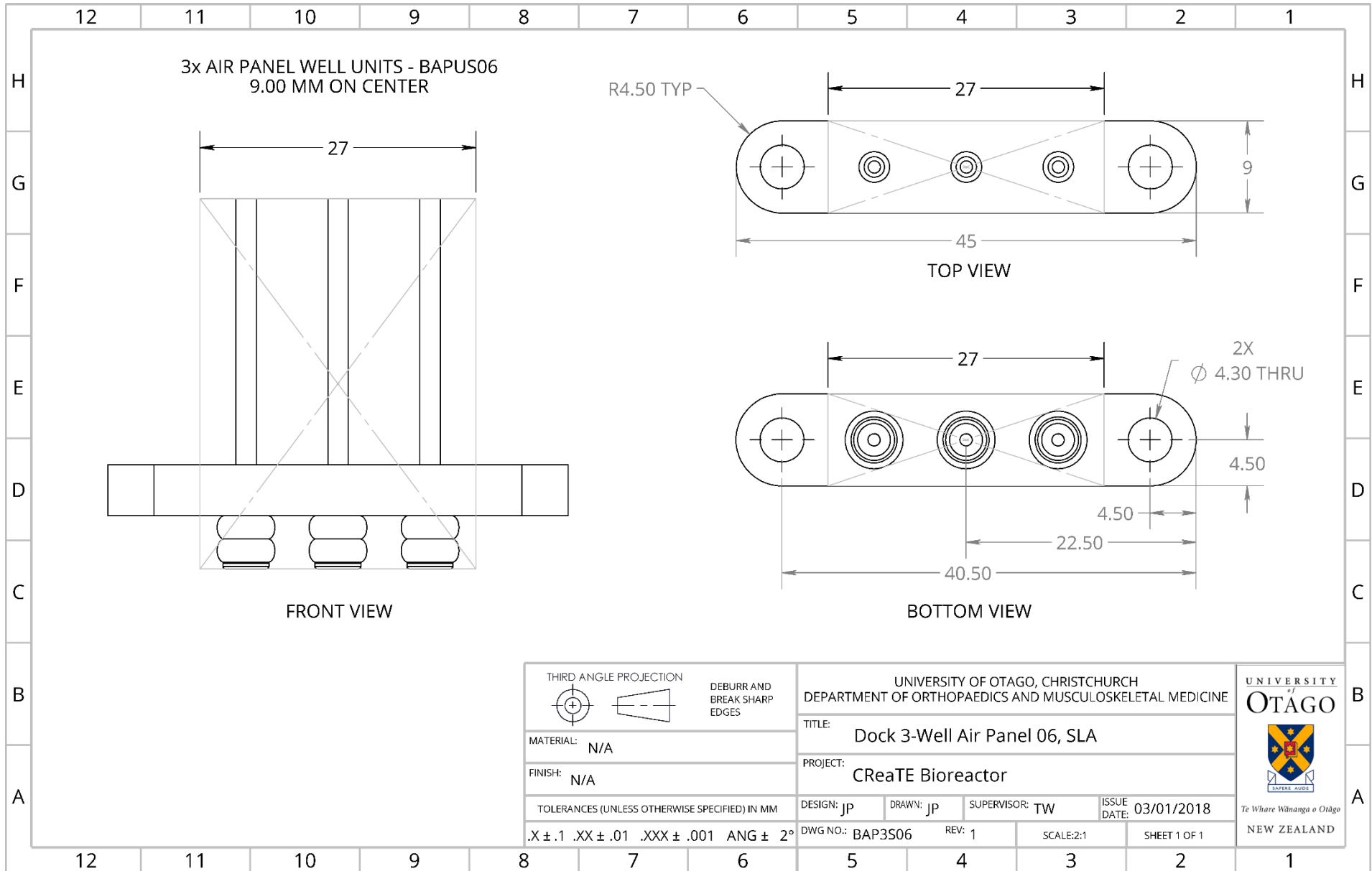


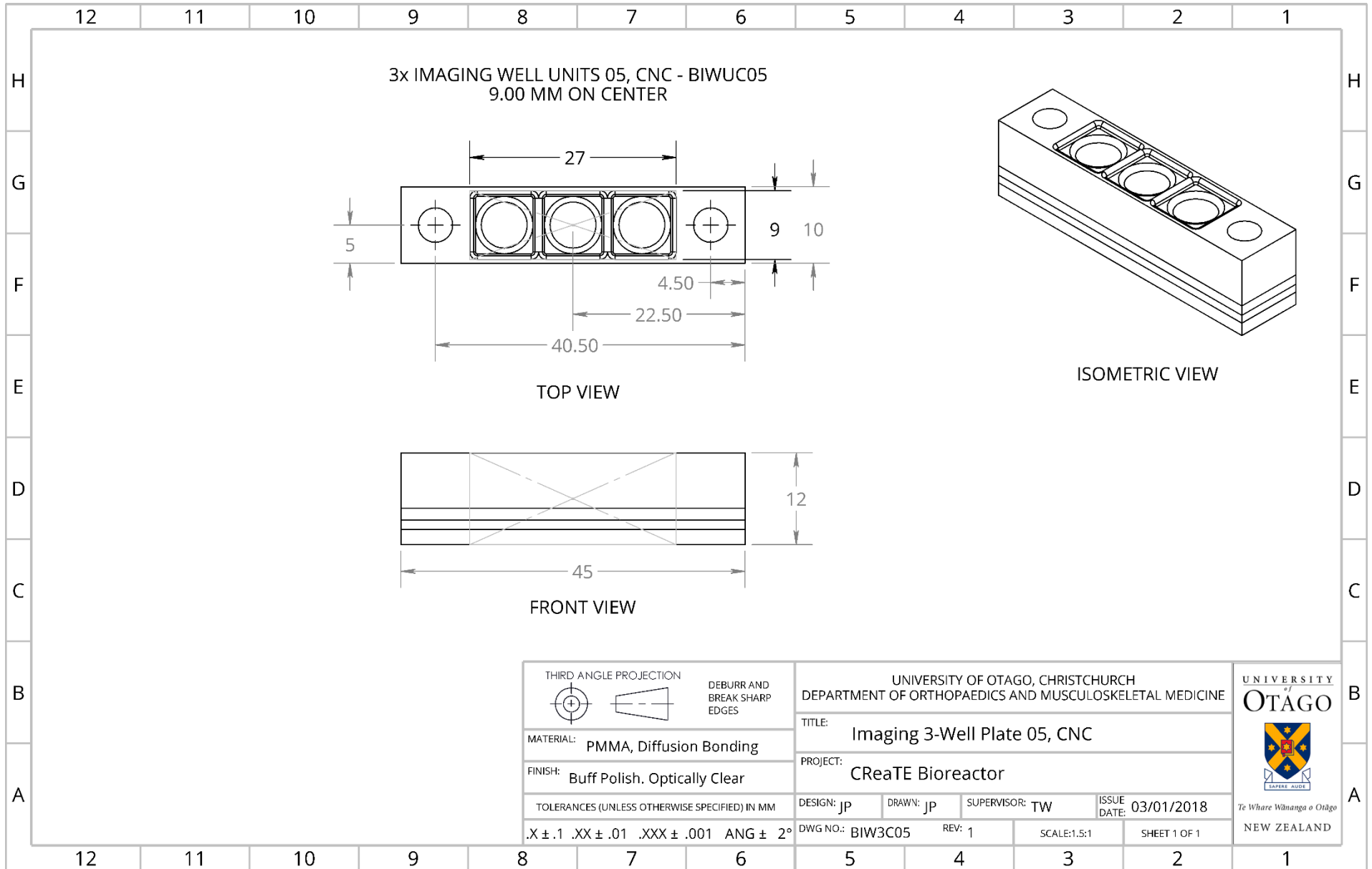


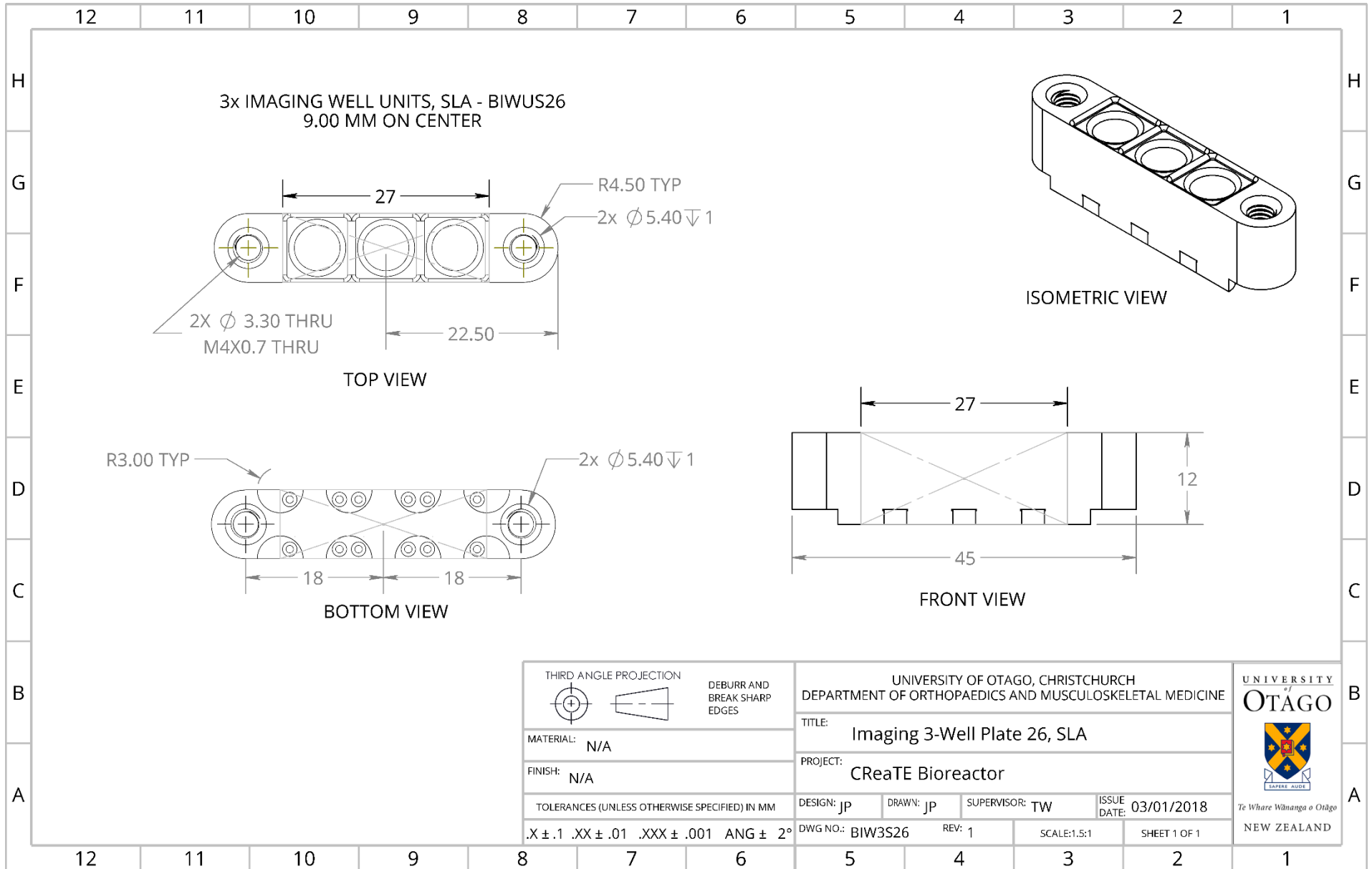


## 3-Well Culture Assemblies

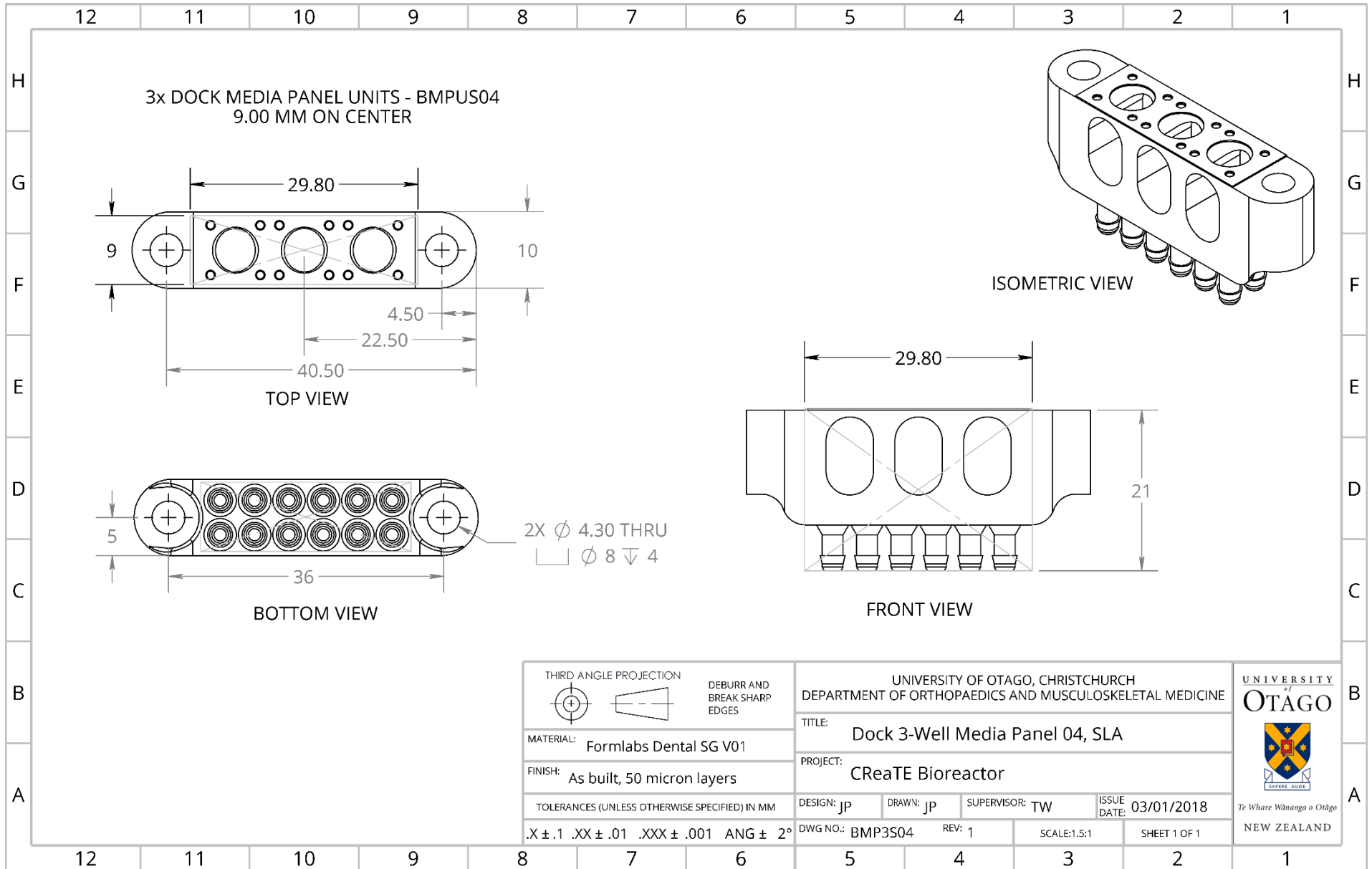


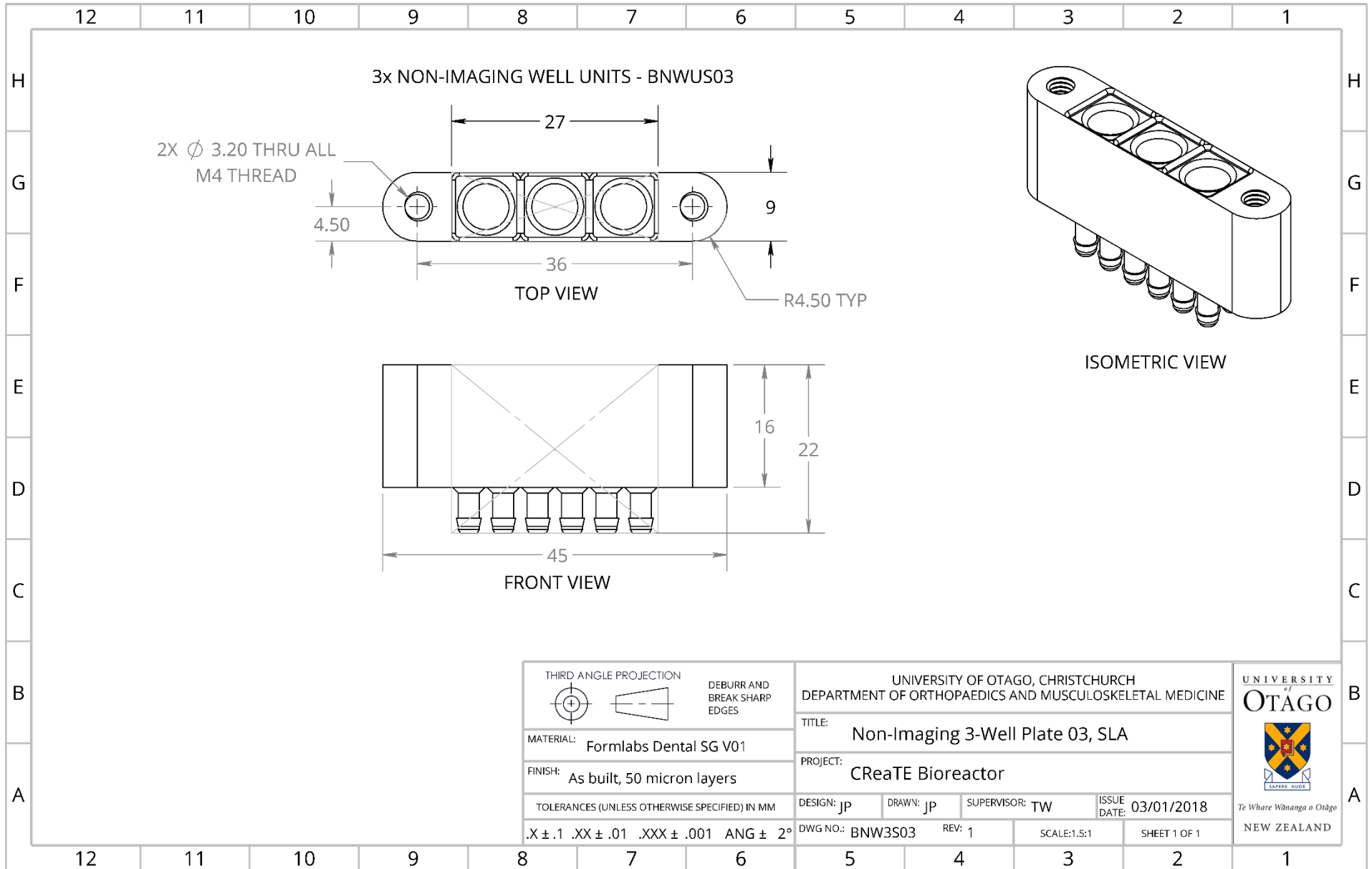












THIRD ANGLE PROJECTION		DEBURR AND BREAK SHARP EDGES
MATERIAL: Formlabs Dental SG V01		
FINISH: As built, 50 micron layers		
TOLERANCES (UNLESS OTHERWISE SPECIFIED) IN MM		
.X ± .1 .XX ± .01 .XXX ± .001 ANG ± 2°		

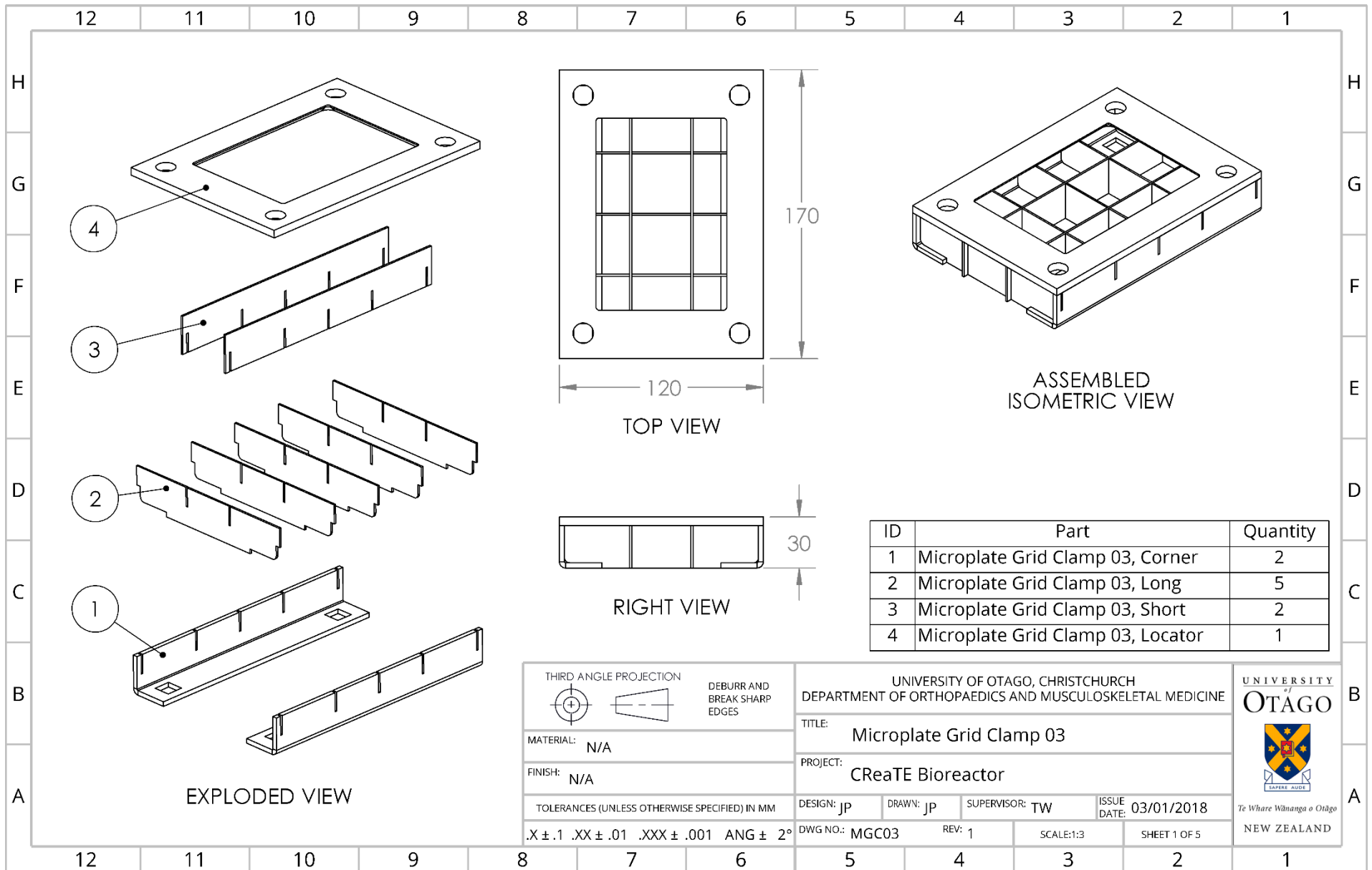
UNIVERSITY OF OTAGO, CHRISTCHURCH			
DEPARTMENT OF ORTHOPAEDICS AND MUSCULOSKELETAL MEDICINE			
TITLE: Non-Imaging 3-Well Plate 03, SLA			
PROJECT: CReaTE Bioreactor			
DESIGN: jp	DRAWN: jp	SUPERVISOR: TW	ISSUE DATE: 03/01/2018
DWG NO.: BNW3S03	REV: 1	SCALE: 1.5:1	SHEET 1 OF 1

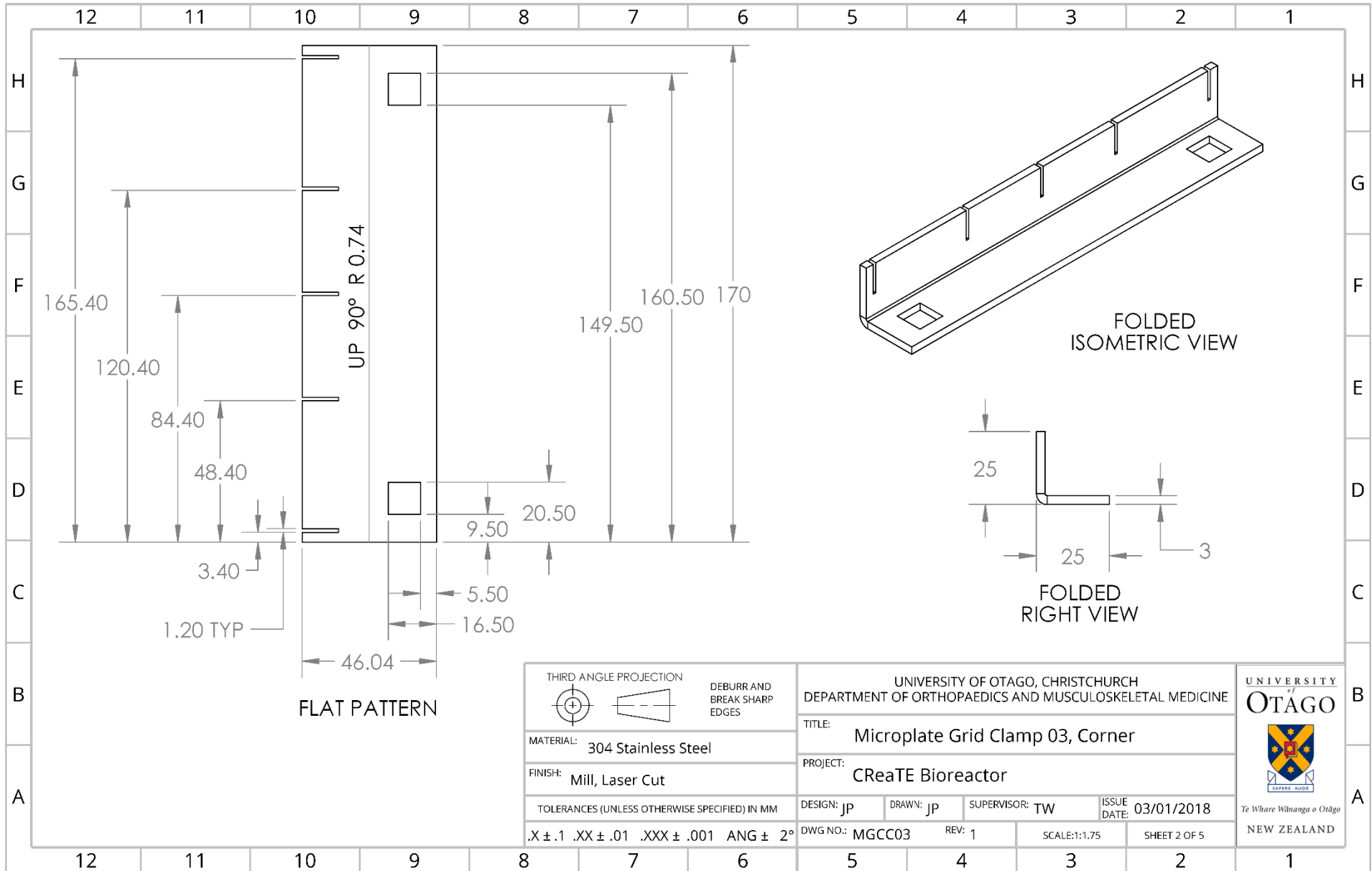
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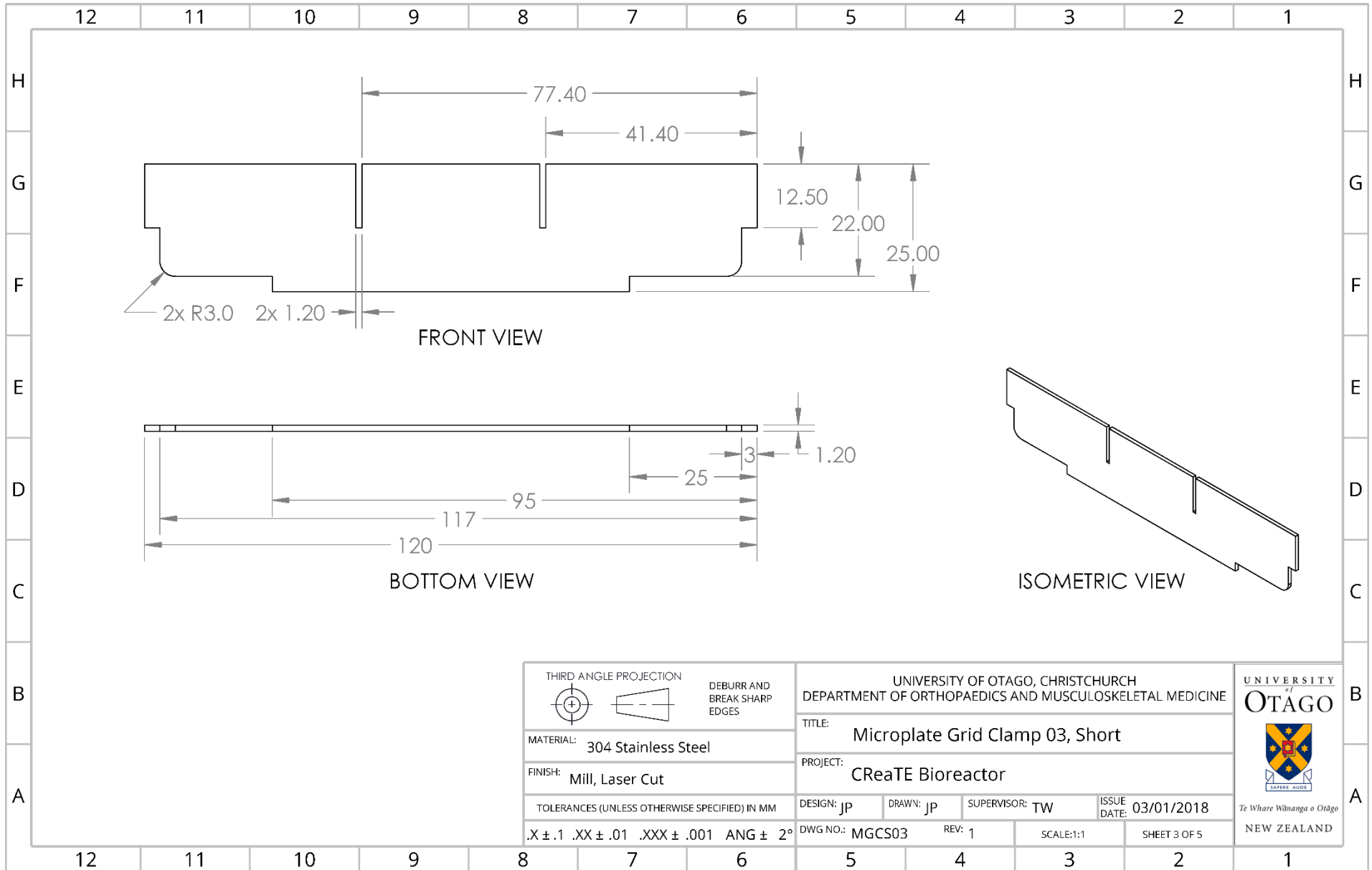
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## 96-Well Imaging



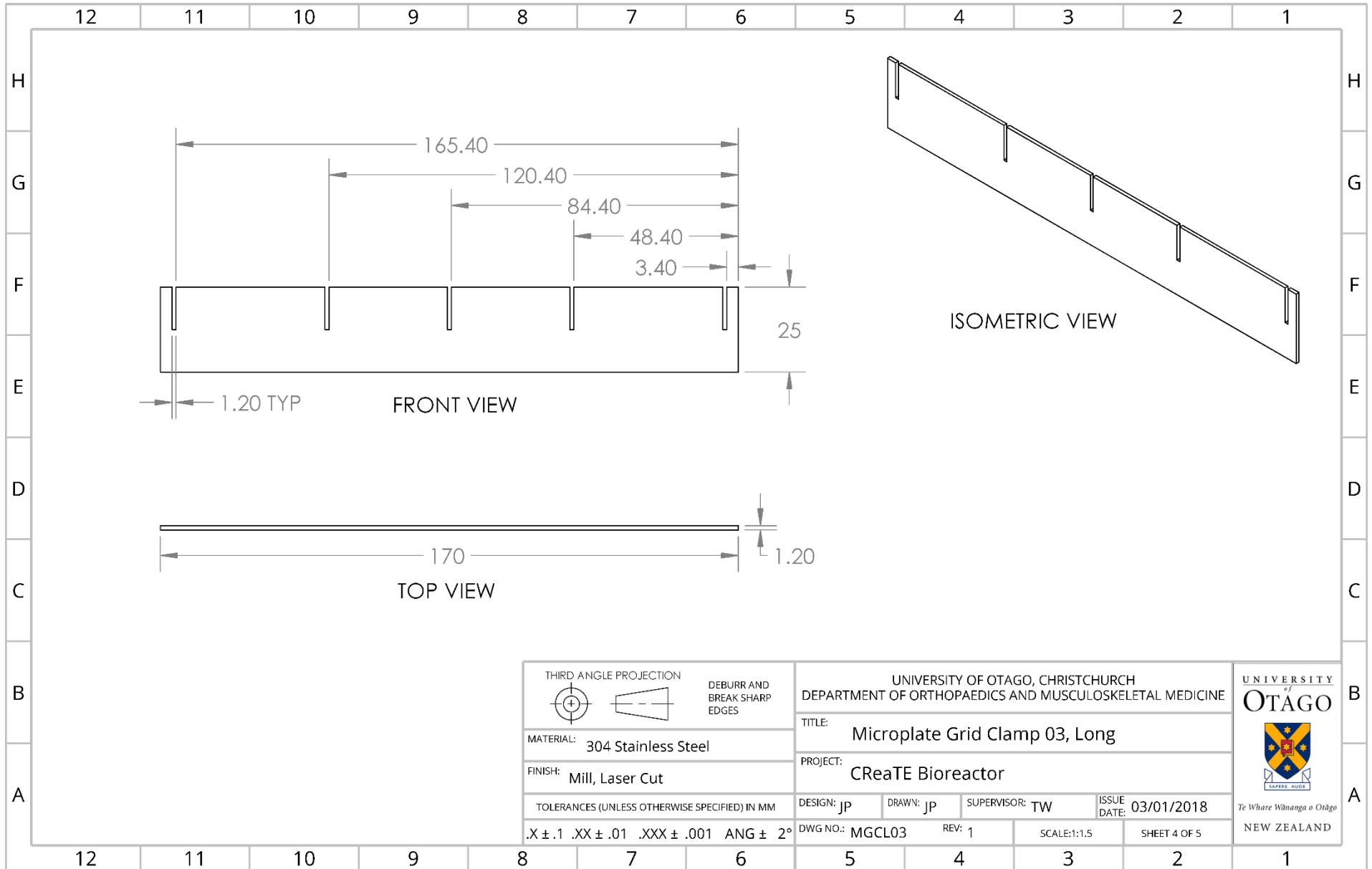


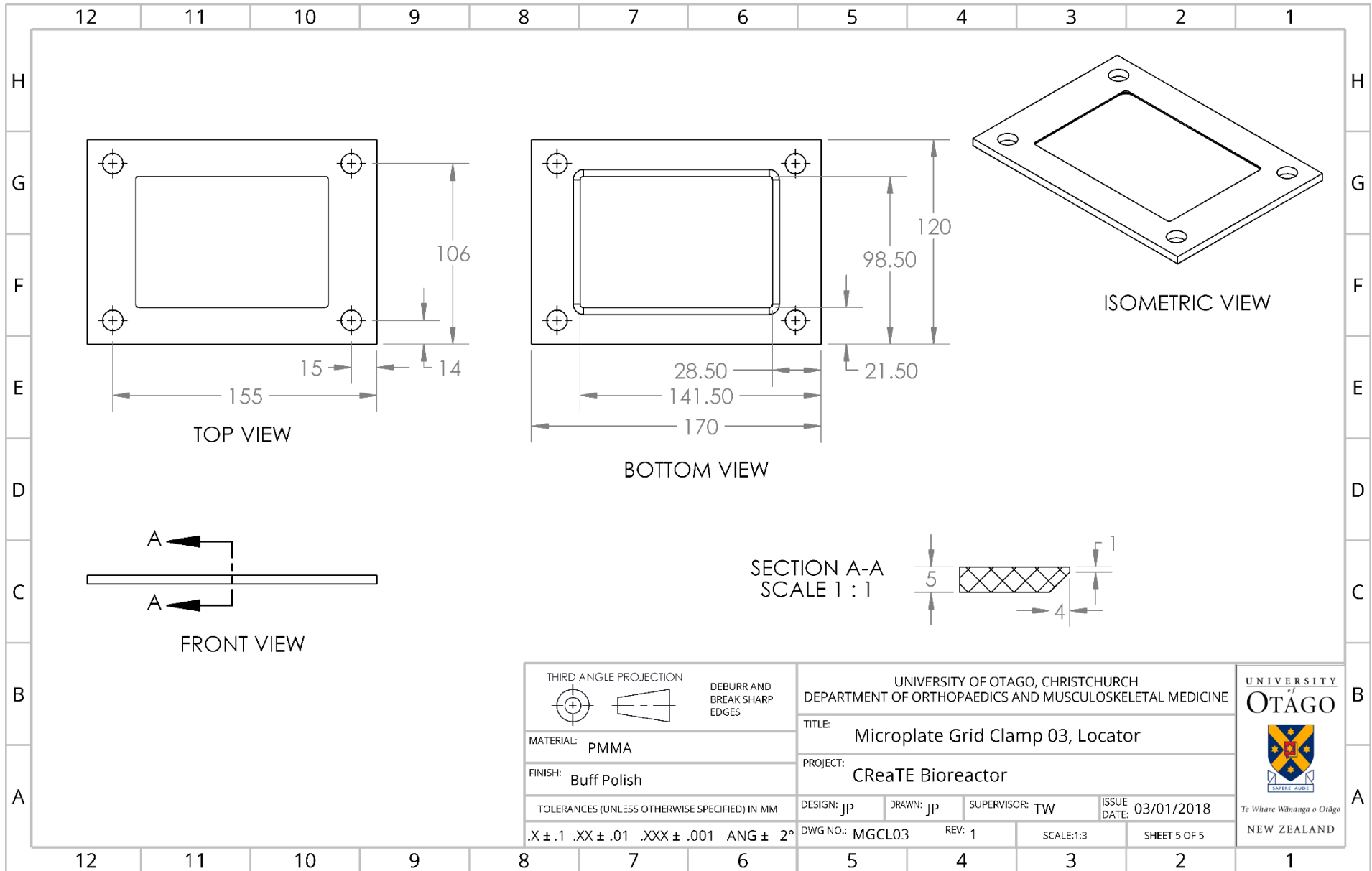


THIRD ANGLE PROJECTION		DEBURR AND BREAK SHARP EDGES
		
MATERIAL: 304 Stainless Steel		
FINISH: Mill, Laser Cut		
TOLERANCES (UNLESS OTHERWISE SPECIFIED) IN MM		
.X ± .1 .XX ± .01 .XXX ± .001 ANG ± 2°		

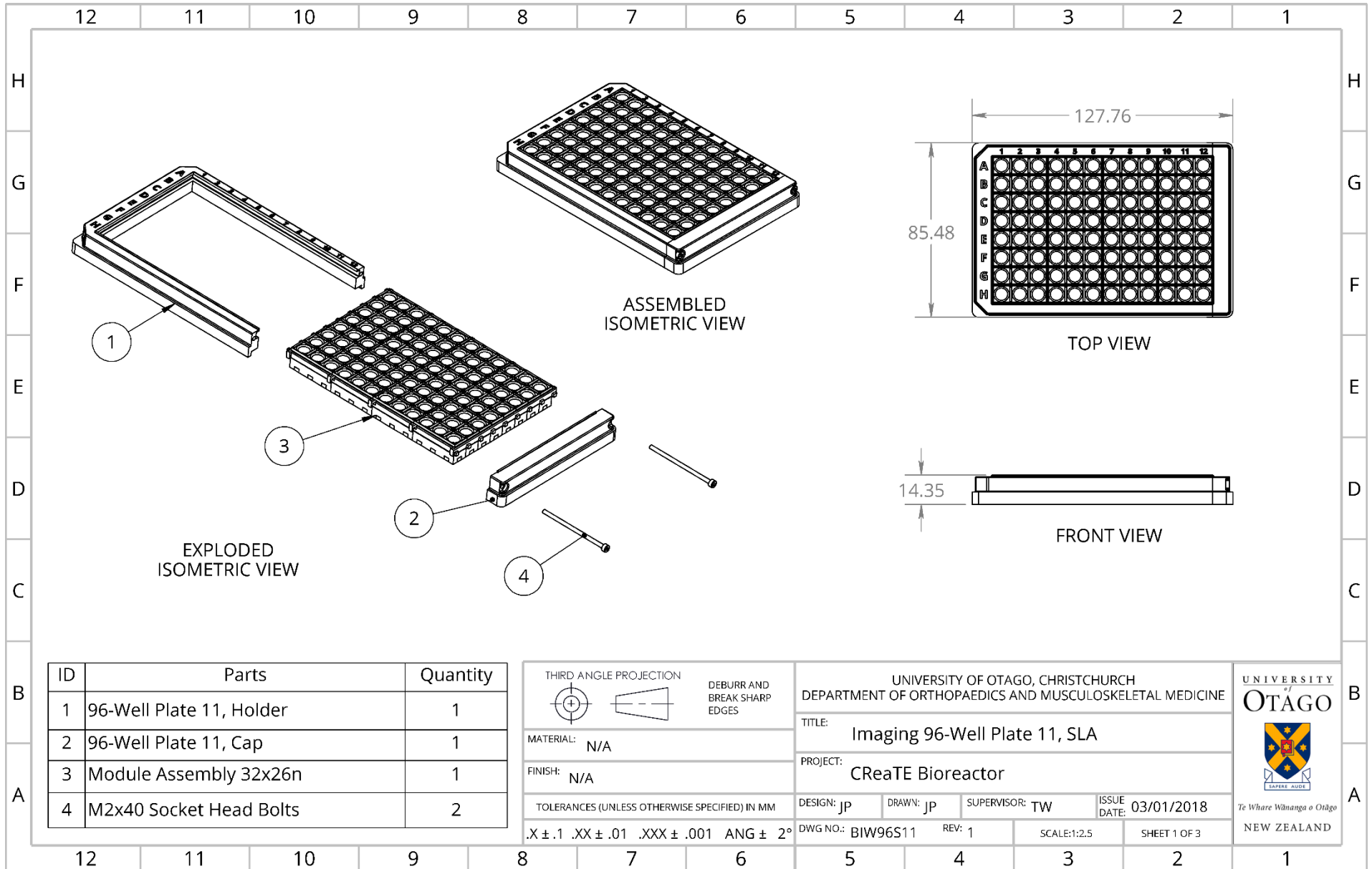
UNIVERSITY OF OTAGO, CHRISTCHURCH DEPARTMENT OF ORTHOPAEDICS AND MUSCULOSKELETAL MEDICINE			
TITLE: Microplate Grid Clamp 03, Short			
PROJECT: CReaTE Bioreactor			
DESIGN: jp	DRAWN: jp	SUPERVISOR: TW	ISSUE DATE: 03/01/2018
DWG NO.: MGCS03	REV: 1	SCALE:1:1	SHEET 3 OF 5

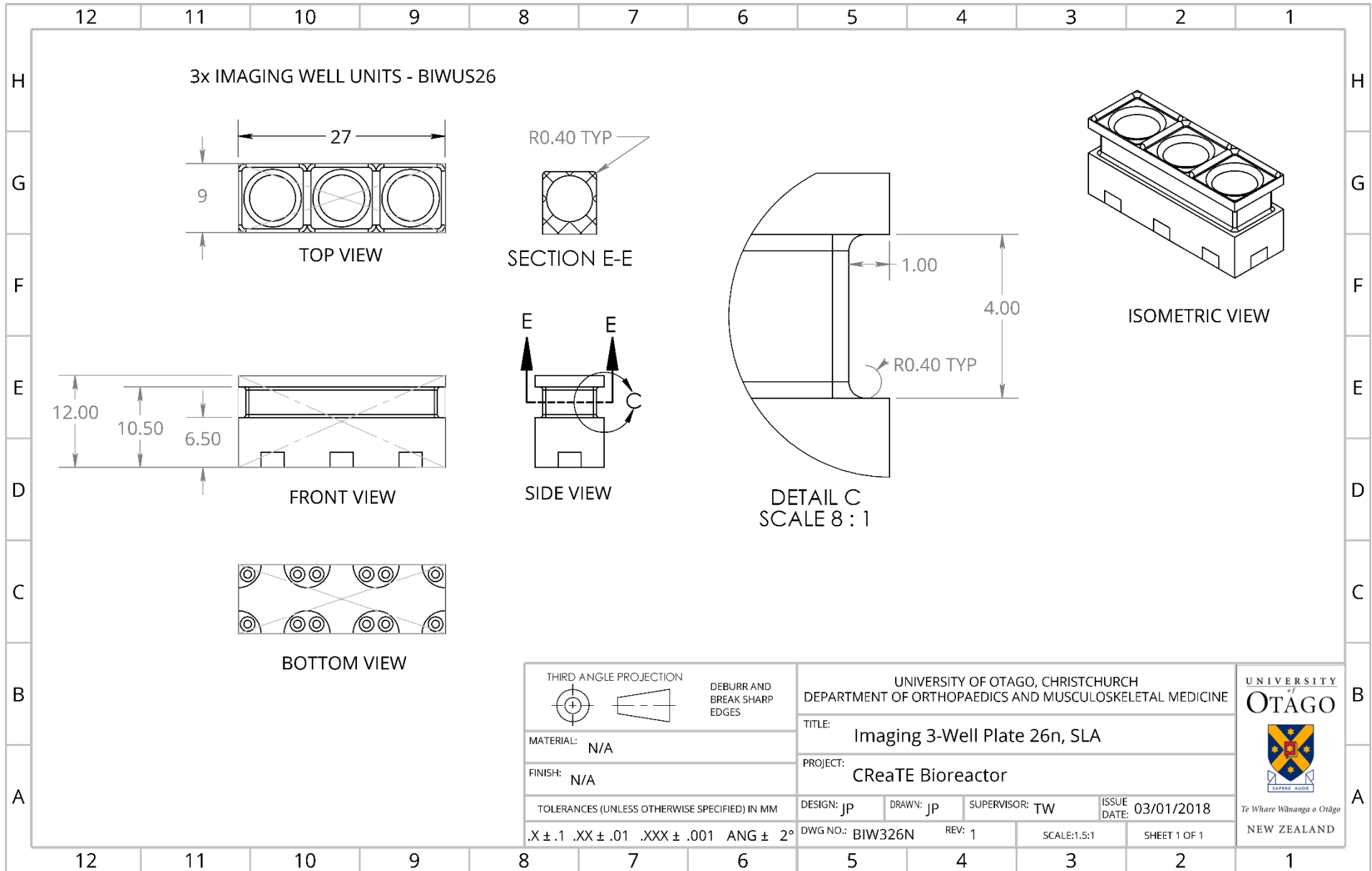
UNIVERSITY of OTAGO
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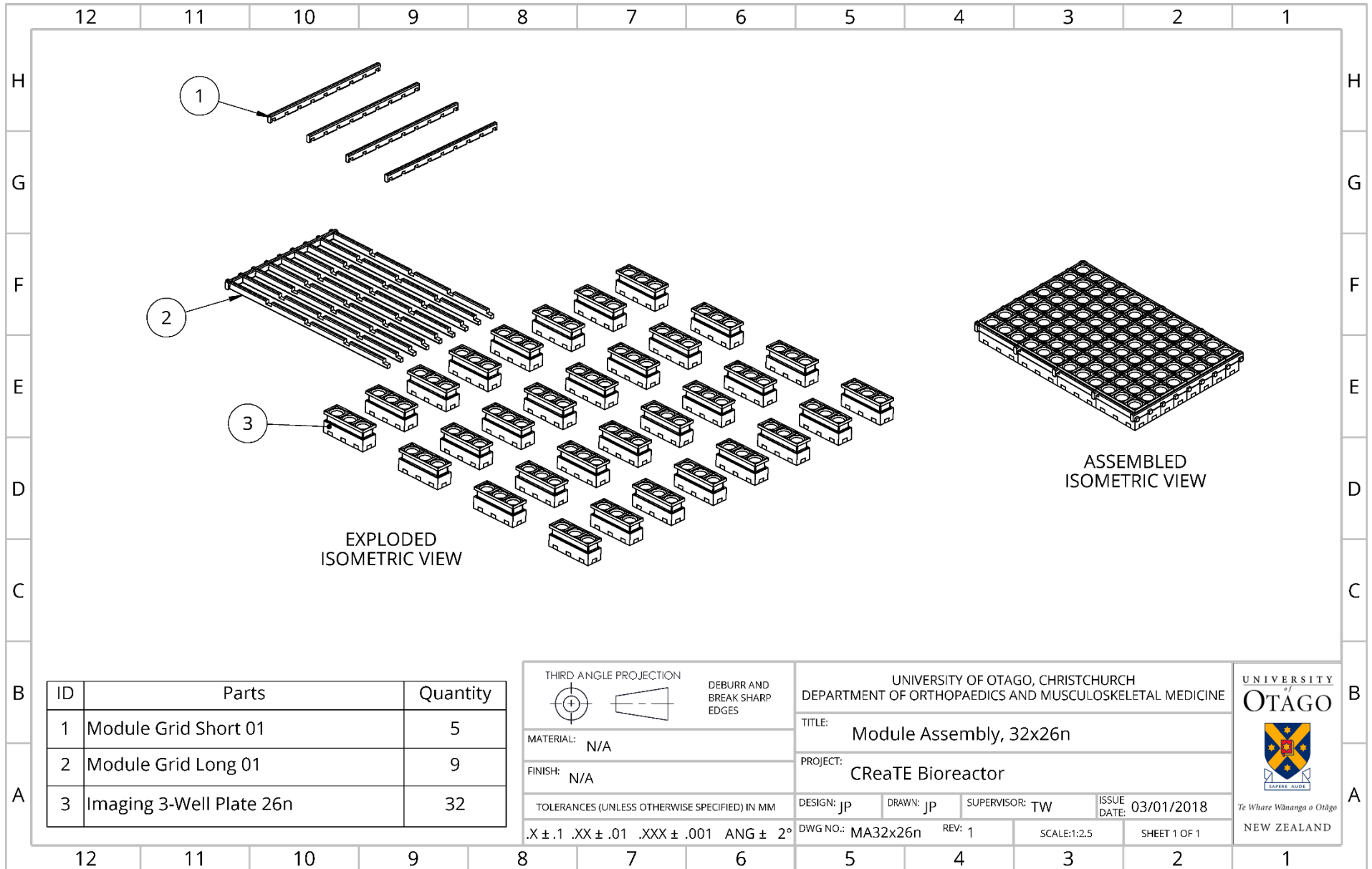


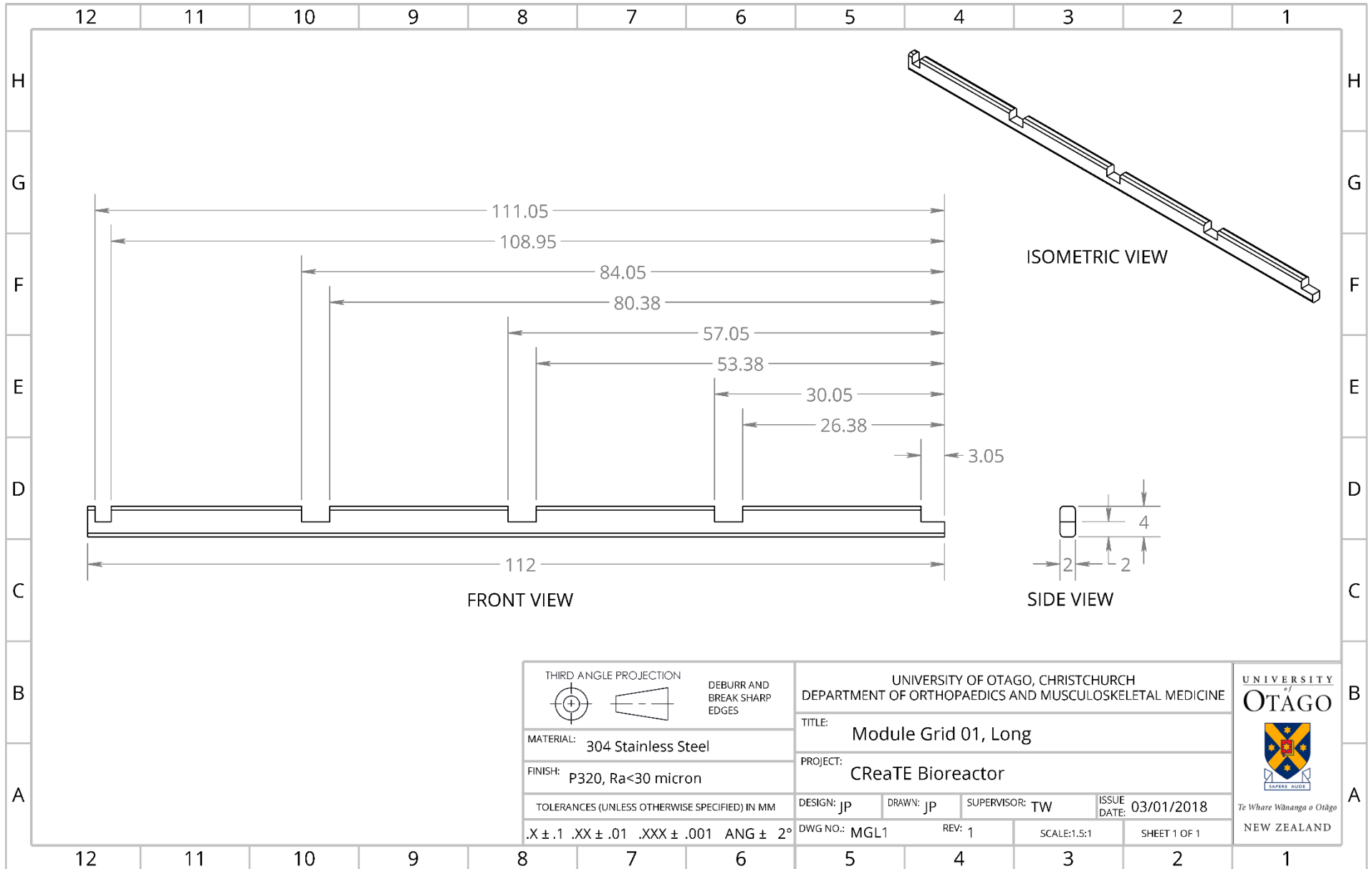


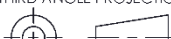










THIRD ANGLE PROJECTION		DEBURR AND BREAK SHARP EDGES
		
MATERIAL: 304 Stainless Steel		
FINISH: P320, Ra<30 micron		
TOLERANCES (UNLESS OTHERWISE SPECIFIED) IN MM		
.X ± .1 .XX ± .01 .XXX ± .001 ANG ± 2°		

UNIVERSITY OF OTAGO, CHRISTCHURCH			
DEPARTMENT OF ORTHOPAEDICS AND MUSCULOSKELETAL MEDICINE			
TITLE: Module Grid 01, Long			
PROJECT: CReaTE Bioreactor			
DESIGN: jp	DRAWN: jp	SUPERVISOR: TW	ISSUE DATE: 03/01/2018
DWG NO.: MGL1	REV: 1	SCALE: 1.5:1	SHEET 1 OF 1

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<i>Te Whare Wānanga o Ōtago</i> NEW ZEALAND

