



Carnetic 316 Vertical Axis Wind Turbine (VAWT), Version 2.0 (as of November 12, 2024)

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CLEAN POWER IN MOTION
THE SOLE PROPERTY OF CARNETIC BY CREATOR STEINAR VIGDEL KOLNES UNDER THE CREATIVE COMMON (CC BY) LICENCE.

Designed by
Edgar

All dimensions are in millimeter unless otherwise specified

Checked by



Approved by

Date

Material

Date

25-Sep-24

Item

First Angle Projection



Description
Wind Turbine 3KW B Rev2 with Strut Stiffener

Part name

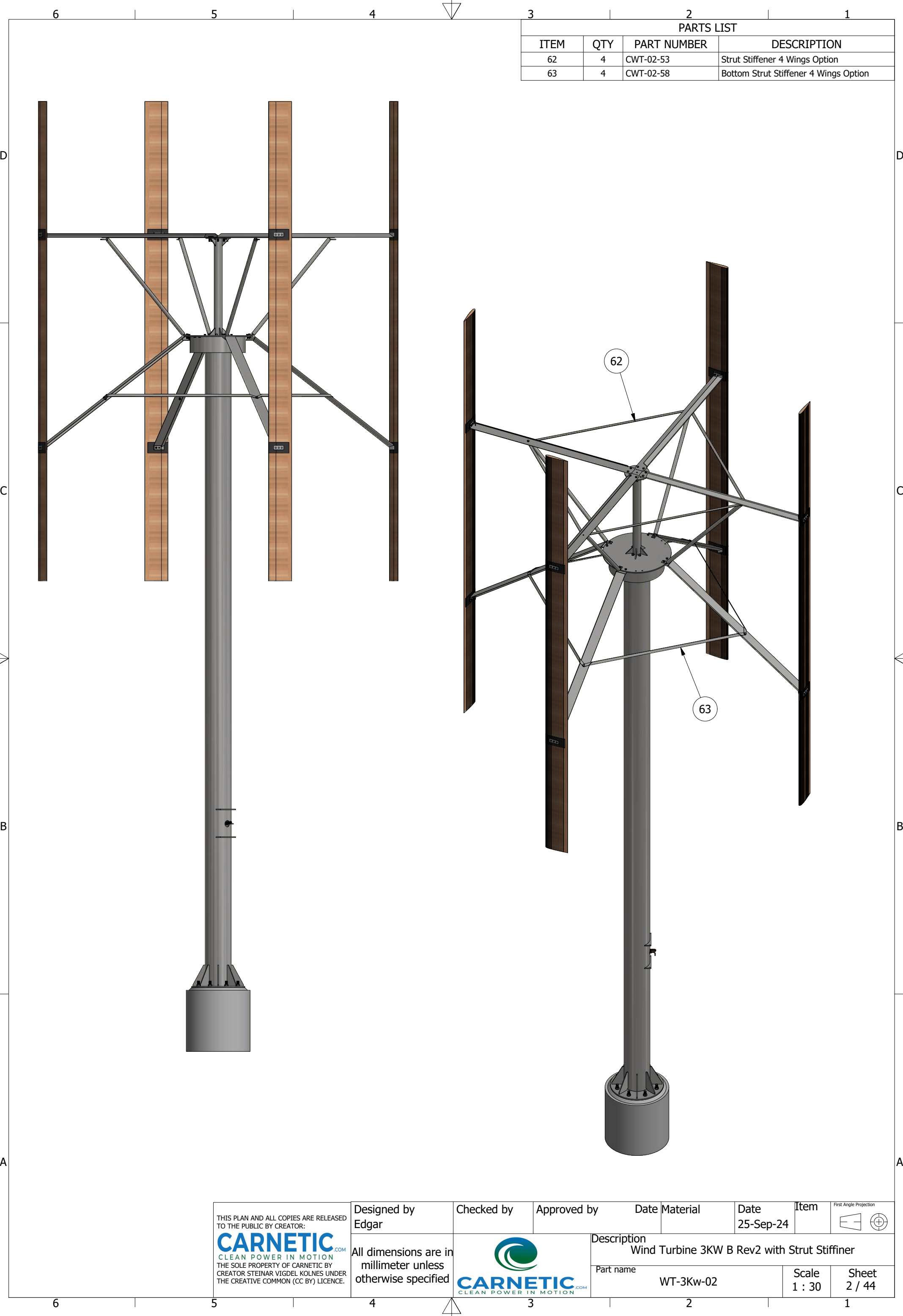
CWT-01

Scale

1 :30

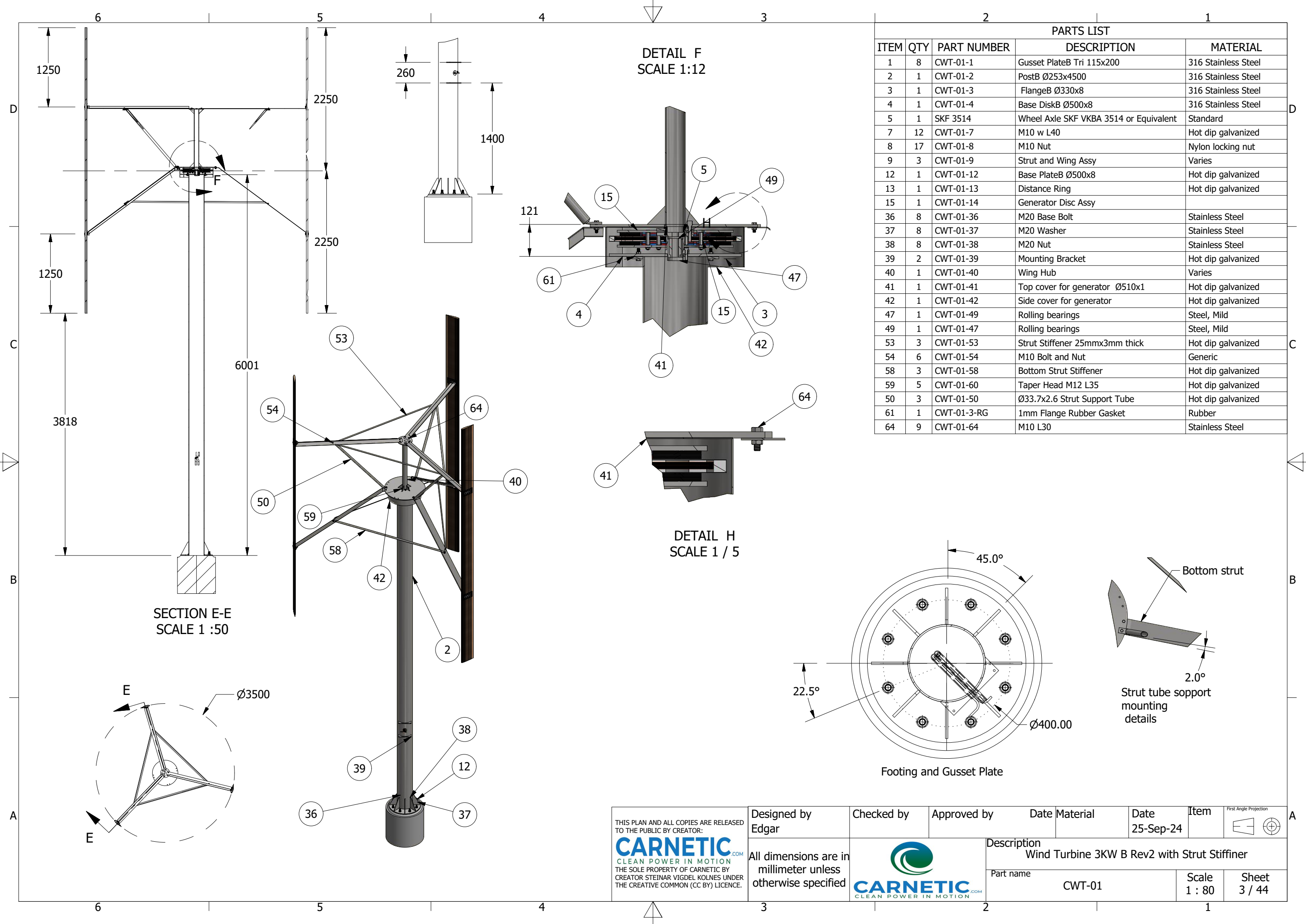
Sheet

1 / 44



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
62	4	CWT-02-53	Strut Stiffener 4 Wings Option
63	4	CWT-02-58	Bottom Strut Stiffener 4 Wings Option

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	All dimensions are in millimeter unless otherwise specified		Description Wind Turbine 3KW B Rev2 with Strut Stiffener					
			Part name WT-3Kw-02			Scale 1 : 30	Sheet 2 / 44	



PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
1	8	CWT-01-1	Gusset PlateB Tri 115x200	316 Stainless Steel
2	1	CWT-01-2	PostB Ø253x4500	316 Stainless Steel
3	1	CWT-01-3	FlangeB Ø330x8	316 Stainless Steel
4	1	CWT-01-4	Base DiskB Ø500x8	316 Stainless Steel
5	1	SKF 3514	Wheel Axle SKF VKBA 3514 or Equivalent	Standard
7	12	CWT-01-7	M10 w L40	Hot dip galvanized
8	17	CWT-01-8	M10 Nut	Nylon locking nut
9	3	CWT-01-9	Strut and Wing Assy	Varies
12	1	CWT-01-12	Base PlateB Ø500x8	Hot dip galvanized
13	1	CWT-01-13	Distance Ring	Hot dip galvanized
15	1	CWT-01-14	Generator Disc Assy	
36	8	CWT-01-36	M20 Base Bolt	Stainless Steel
37	8	CWT-01-37	M20 Washer	Stainless Steel
38	8	CWT-01-38	M20 Nut	Stainless Steel
39	2	CWT-01-39	Mounting Bracket	Hot dip galvanized
40	1	CWT-01-40	Wing Hub	Varies
41	1	CWT-01-41	Top cover for generator Ø510x1	Hot dip galvanized
42	1	CWT-01-42	Side cover for generator	Hot dip galvanized
47	1	CWT-01-49	Rolling bearings	Steel, Mild
49	1	CWT-01-47	Rolling bearings	Steel, Mild
53	3	CWT-01-53	Strut Stiffener 25mmx3mm thick	Hot dip galvanized
54	6	CWT-01-54	M10 Bolt and Nut	Generic
58	3	CWT-01-58	Bottom Strut Stiffener	Hot dip galvanized
59	5	CWT-01-60	Taper Head M12 L35	Hot dip galvanized
50	3	CWT-01-50	Ø33.7x2.6 Strut Support Tube	Hot dip galvanized
61	1	CWT-01-3-RG	1mm Flange Rubber Gasket	Rubber
64	9	CWT-01-64	M10 L30	Stainless Steel

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Date
25-Sep-24

Item

First Angle Projection

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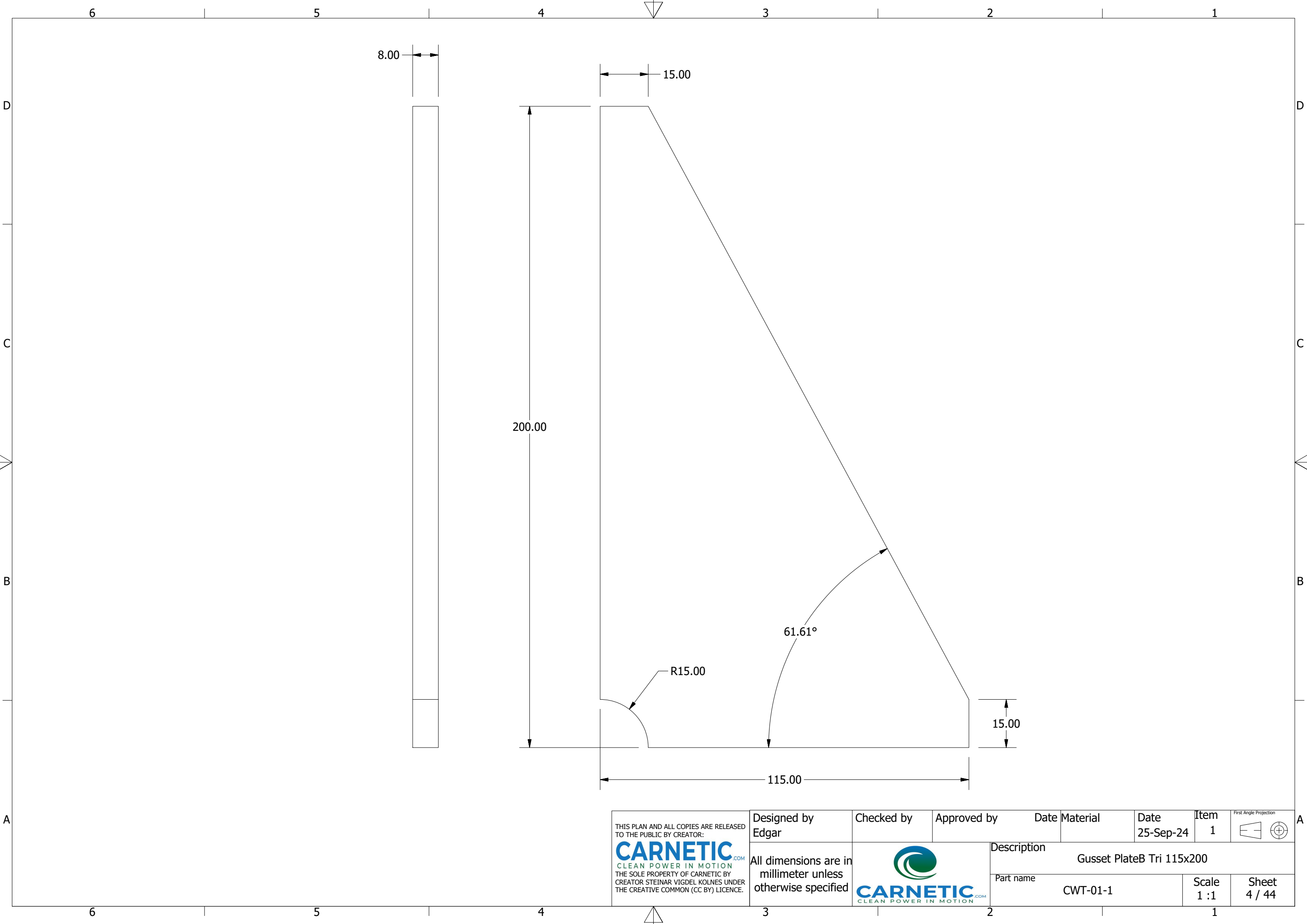
CLEAN POWER IN MOTION

Description
Wind Turbine 3KW B Rev2 with Strut Stiffener

Part name
CWT-01

Scale
1 : 80

Sheet
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Date
25-Sep-24

Item
1

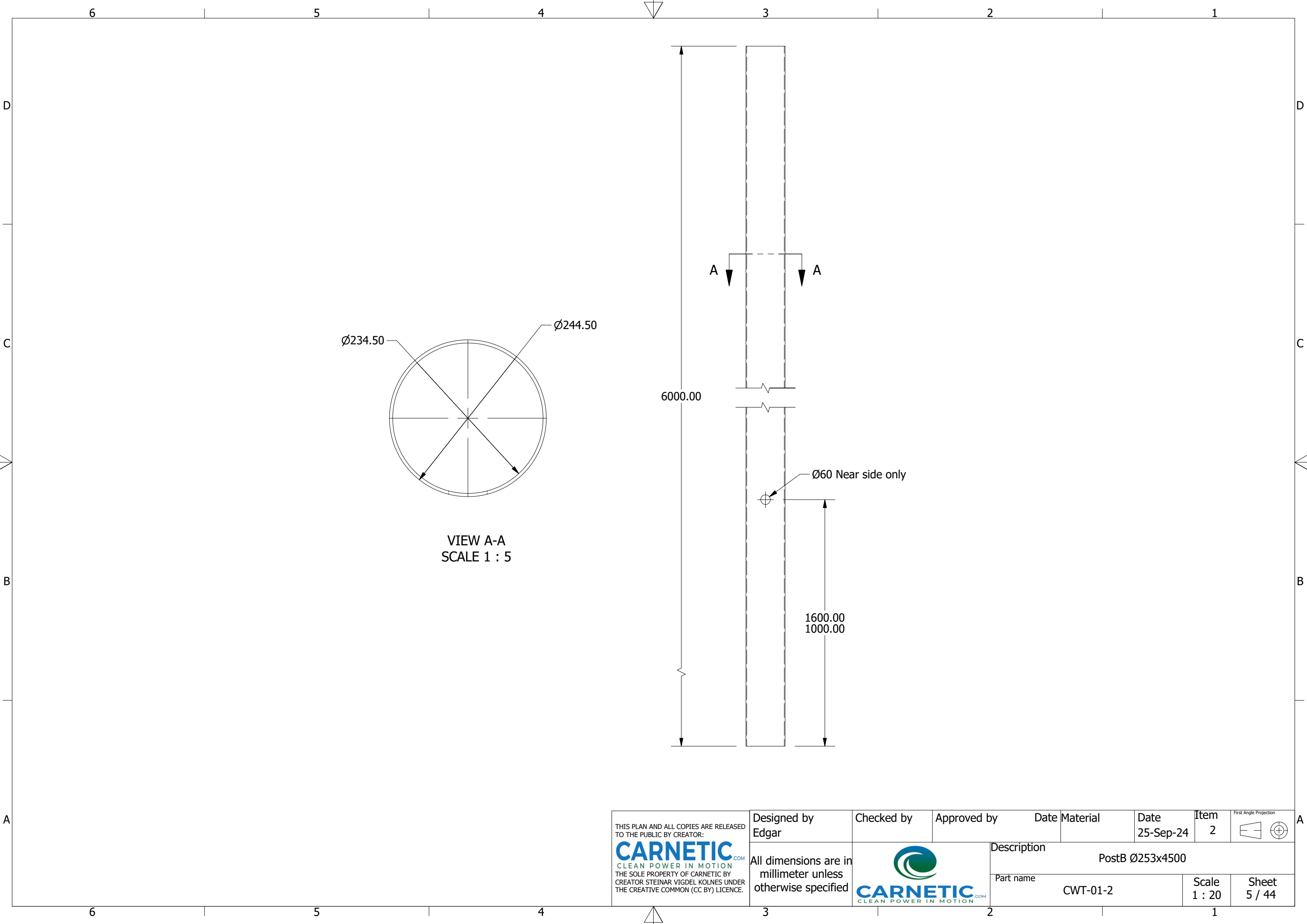
First Angle Projection

Description
Gusset PlateB Tri 115x200

Part name
CWT-01-1

Scale
1 : 1

Sheet
4 / 44



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Item
2

First Angle Projection

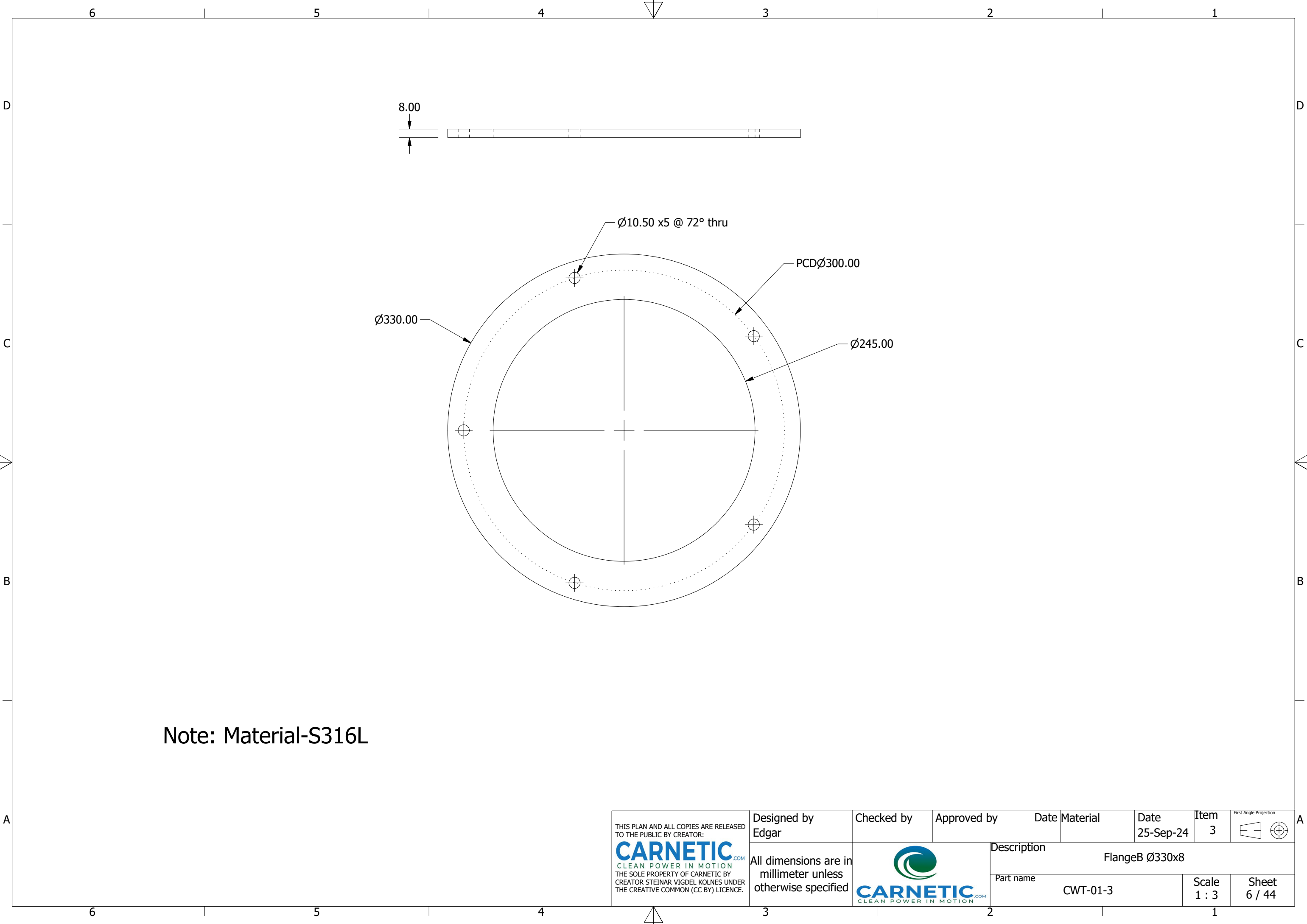
CARNETIC
CLEAN POWER IN MOTION

Description
PostB Ø253x4500

Part name
CWT-01-2

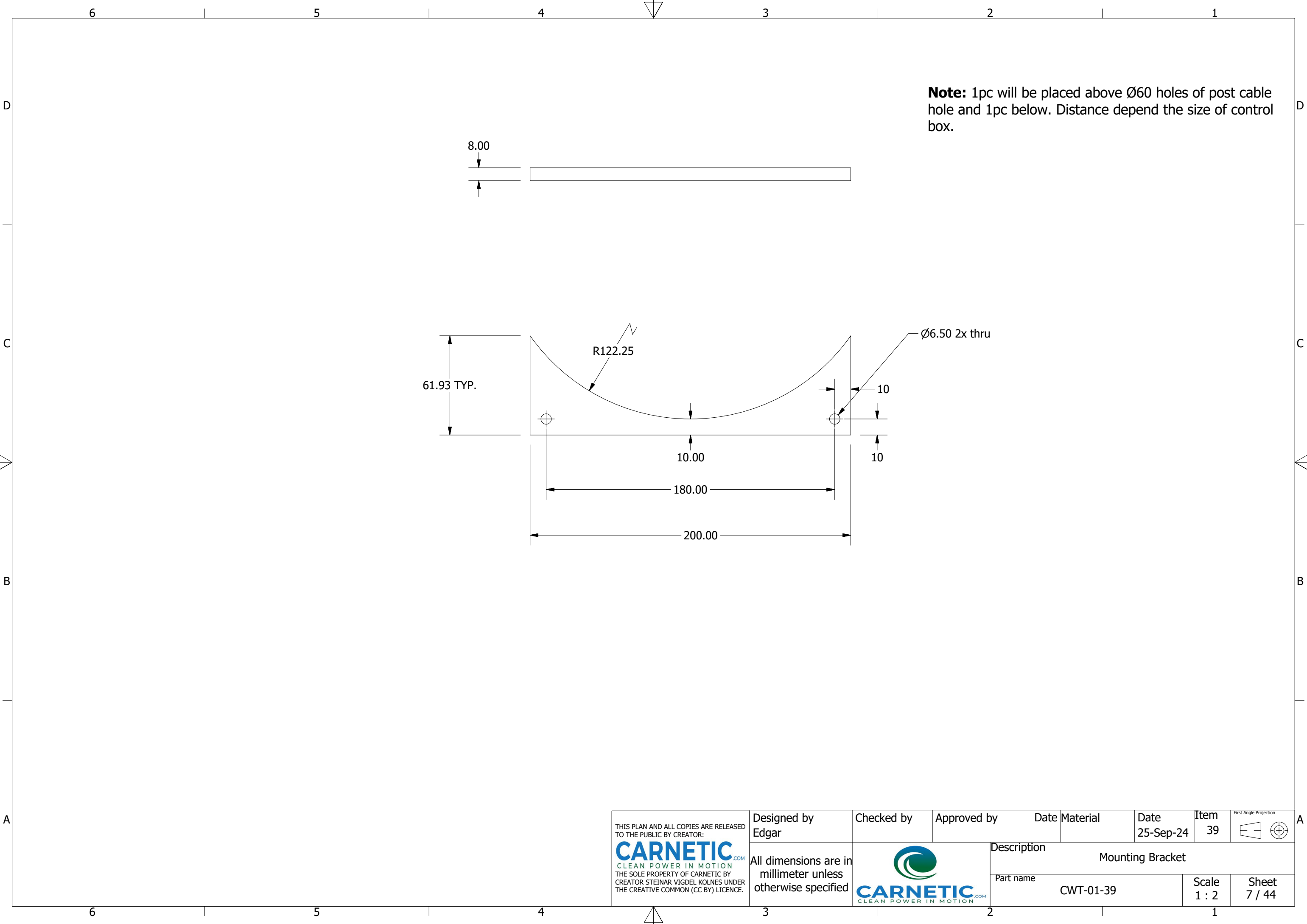
Scale
1 : 20

Sheet
5 / 44



Note: Material-S316L

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	All dimensions are in millimeter unless otherwise specified	CARNETIC.com CLEAN POWER IN MOTION	Description FlangeB Ø330x8					
			Part name CWT-01-3		Scale 1 : 3	Sheet 6 / 44		



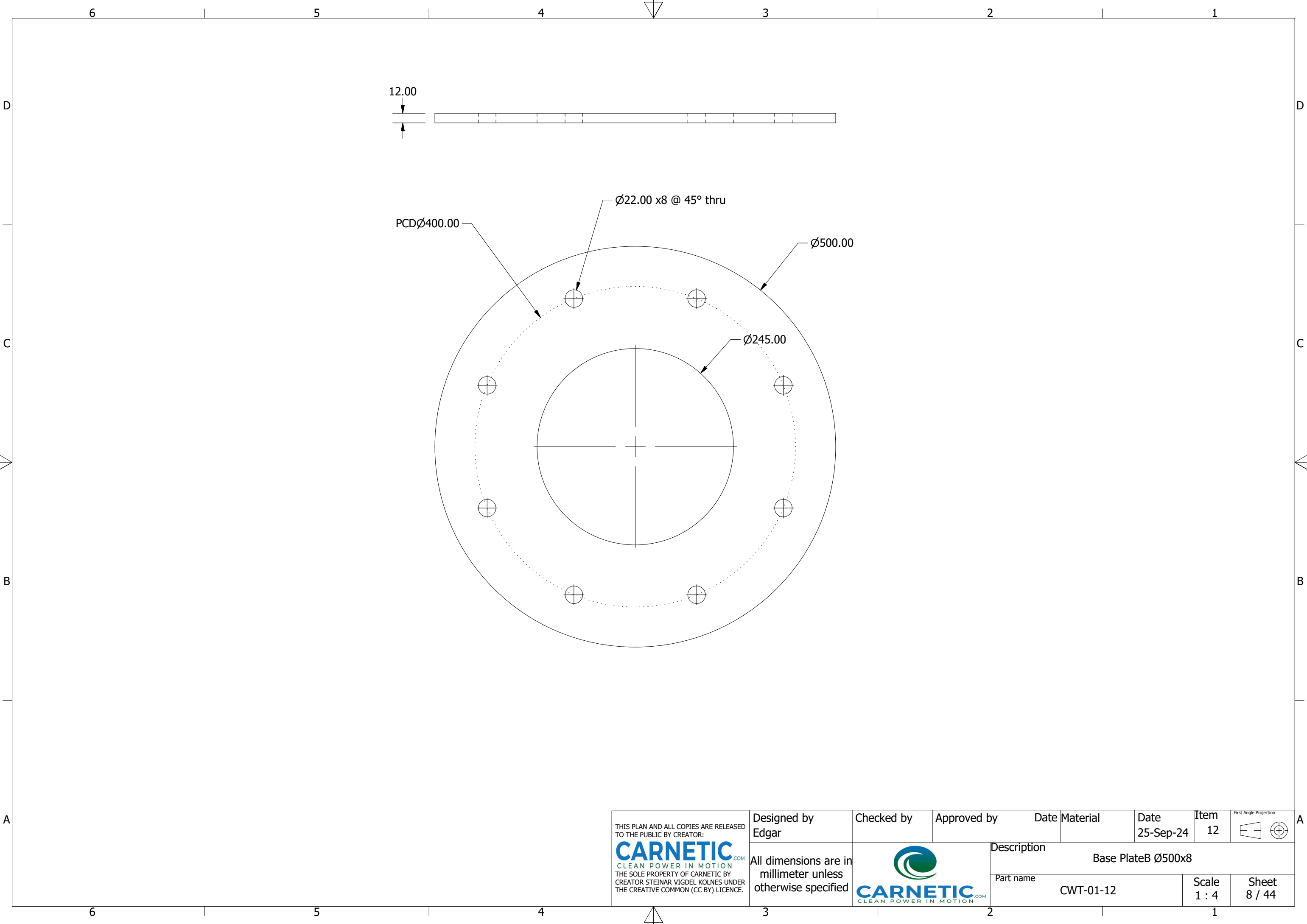
Note: 1pc will be placed above Ø60 holes of post cable hole and 1pc below. Distance depend the size of control box.

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Date
Material
Date
Item
39
First Angle Projection

Description
Mounting Bracket
Part name
CWT-01-39
Scale
1 : 2
Sheet
7 / 44



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Date

Material

Date
25-Sep-24

Item
12

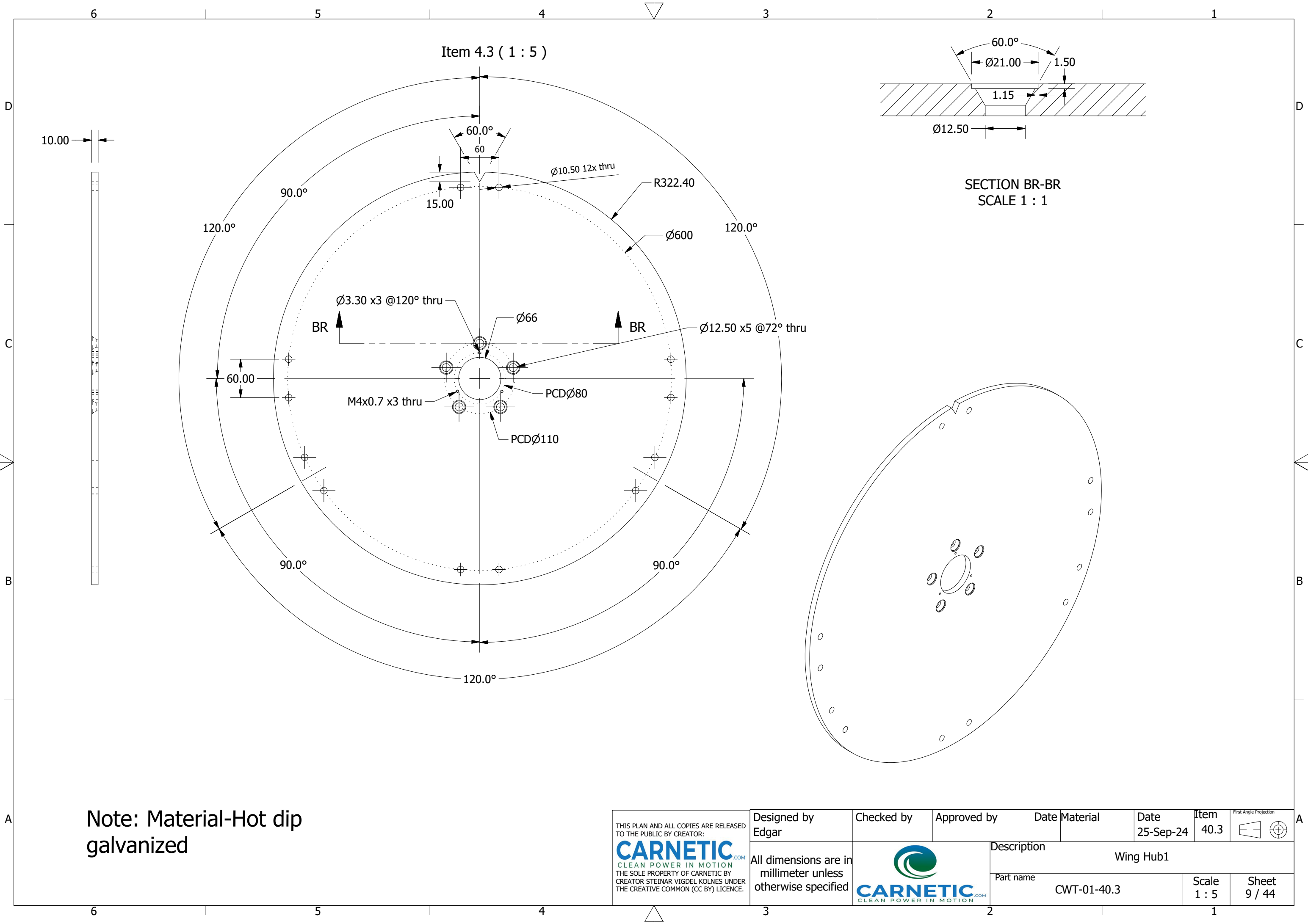
First Angle Projection

Description
Base PlateB $\varnothing 500 \times 8$

Part name
CWT-01-12

Scale
1 : 4

Sheet
8 / 44



Note: Material-Hot dip
galvanized

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Material

Date
25-Sep-24

Item
40.3

First Angle Projection

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CLEAN POWER IN MOTION

Description

Wing Hub1

Part name

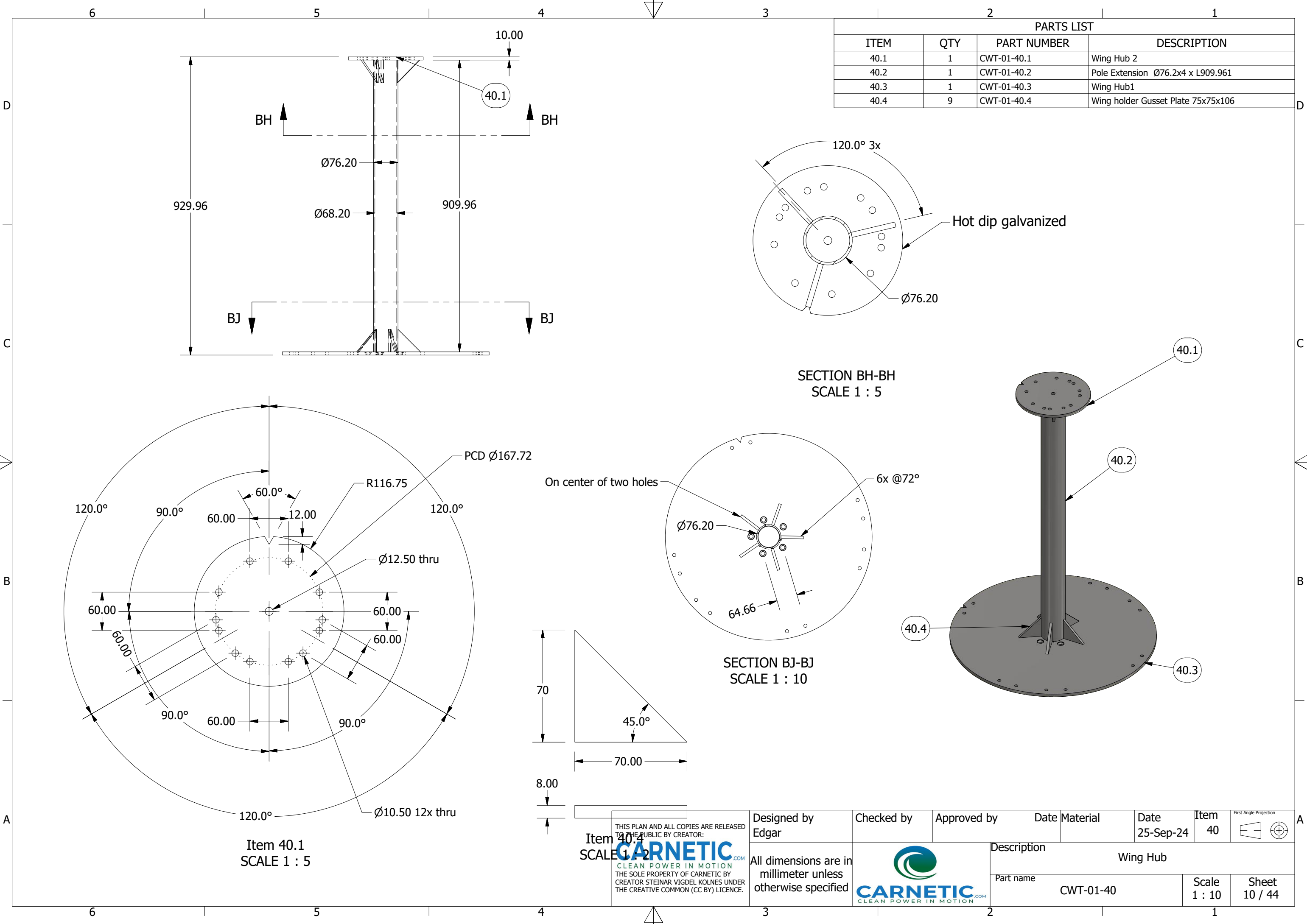
CWT-01-40.3

Scale

1 : 5

Sheet

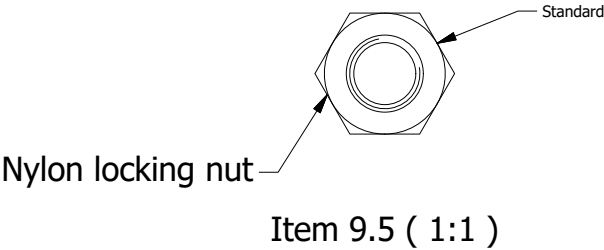
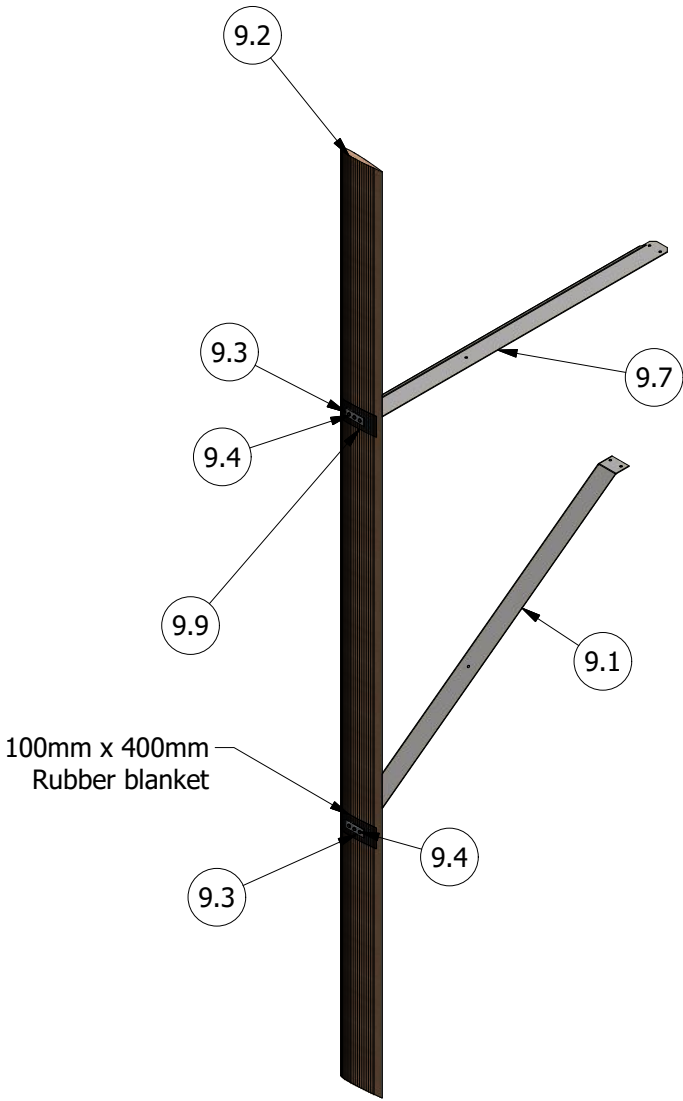
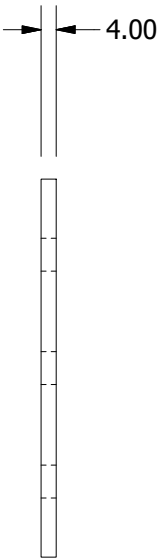
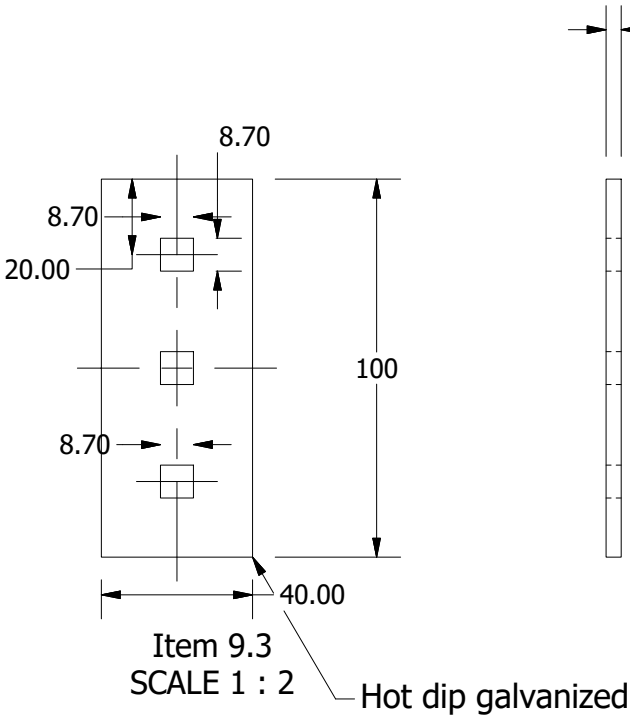
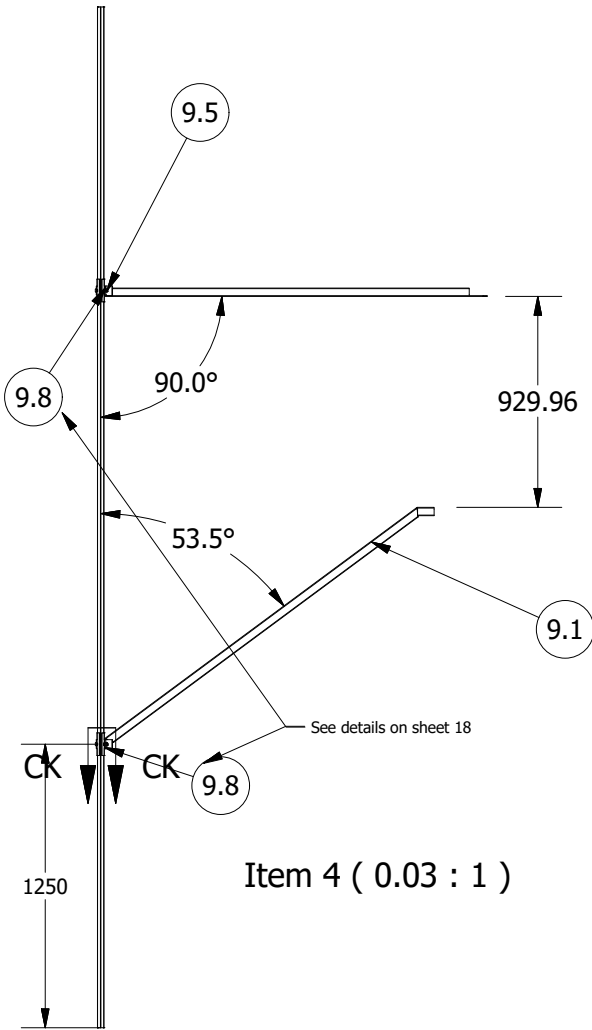
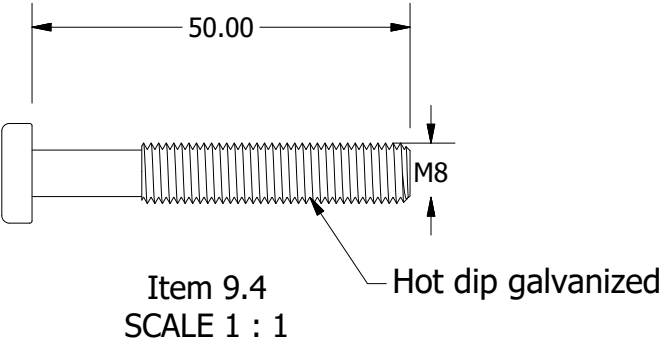
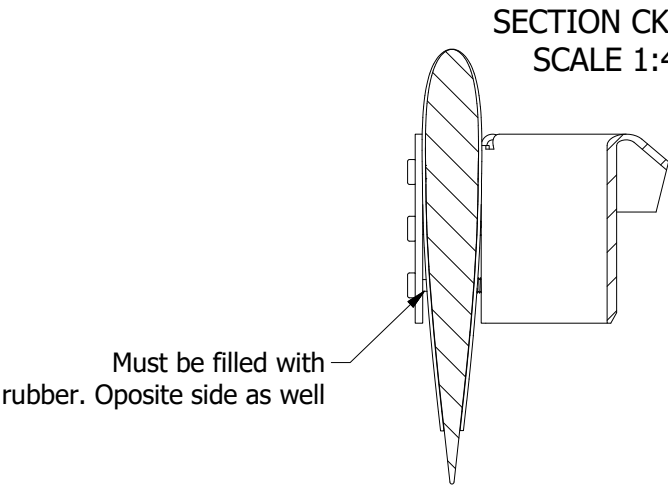
9 / 44

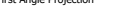


PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
40.1	1	CWT-01-40.1	Wing Hub 2
40.2	1	CWT-01-40.2	Pole Extension Ø76.2x4 x L909.961
40.3	1	CWT-01-40.3	Wing Hub1
40.4	9	CWT-01-40.4	Wing holder Gusset Plate 75x75x106

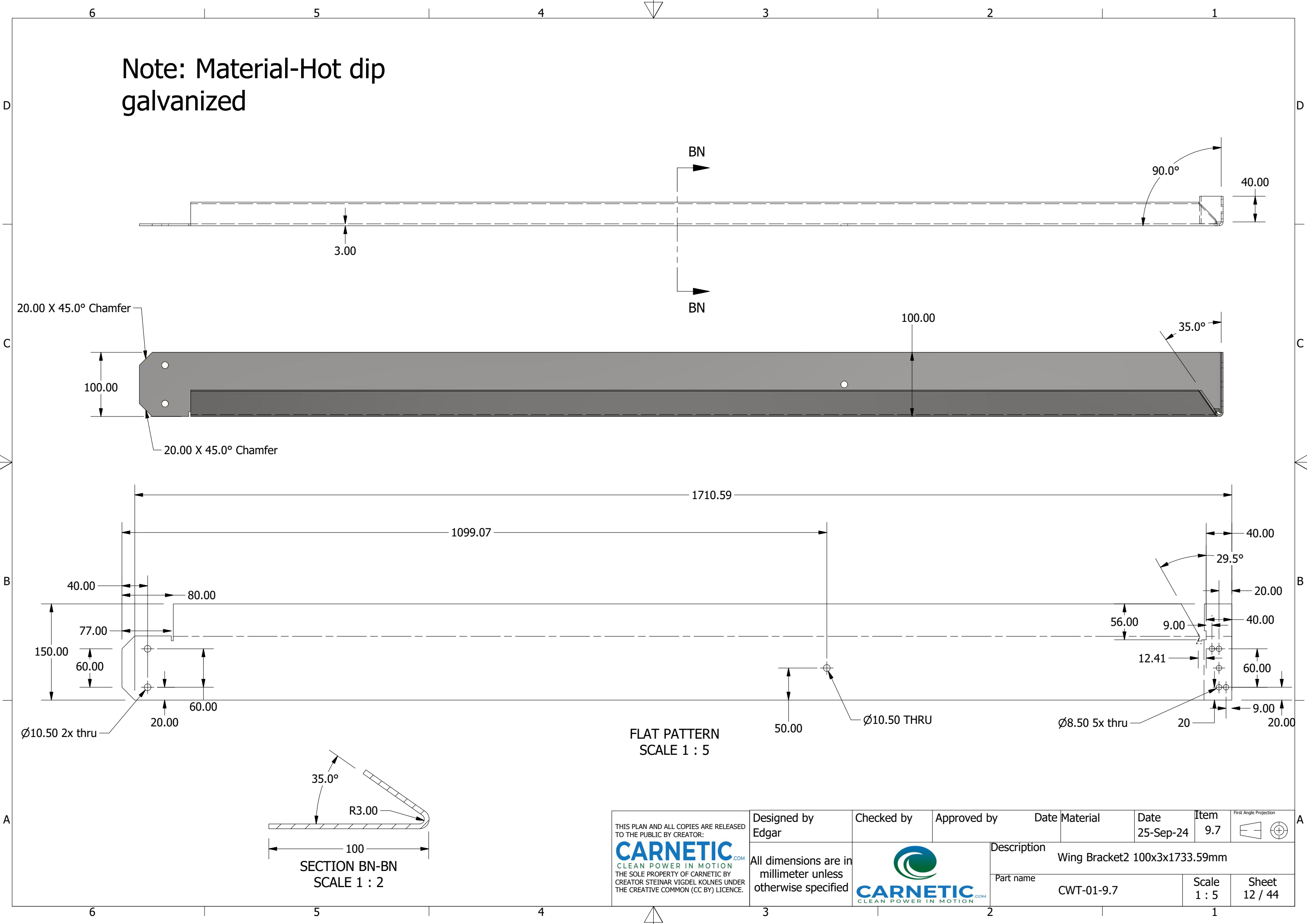
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	All dimensions are in millimeter unless otherwise specified		Description Wing Hub		Part name CWT-01-40	Scale 1 : 10	Sheet 10 / 44	

PARTS LIST Qty=3				
ITEM	QTY	PART NAME	DESCRIPTION	MATERIAL
9.1	1	CWT-01-9.1	Strut Steel plate 100x6x1832.82mm	Hot dip galvanized
9.2	1	CWT-01-9.6 Rev2	Wingprofile NACA 0012H version 2.0	Wood
9.3	2	CWT-01-9.3	Wing Back Plate 100x40x4	Hot dip galvanized
9.4	6	CWT-01-9.4	M8 screw	Hot dip galvanized
9.5	4	CWT-01-9.5	M8 Nut	Nylon locking not
9.7	1	CWT-01-9.7	Wing Bracket2 100x3x1733.59mm	Hot dip galvanized
9.8	2	CWT-01-9.8	Wing Strut Support Plate 96x40x4	Hot dip galvanized
9.9	2	CWT-01-9.9	1.6mm Rubber Blanket	Rubber



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	All dimensions are in millimeter unless otherwise specified	 CARNETIC.com CLEAN POWER IN MOTION	Description Strut and Wing Assy						
			Part name CWT-01-9					Scale 0.03 : 1	Sheet 11 / 44

Note: Material-Hot dip
galvanized



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Date

Material

Date
25-Sep-24

Item
9.7

First Angle Projection

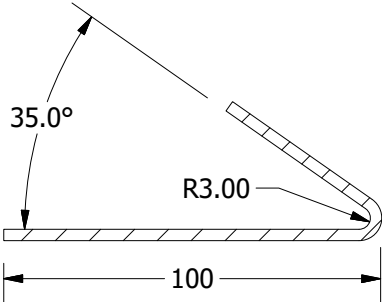
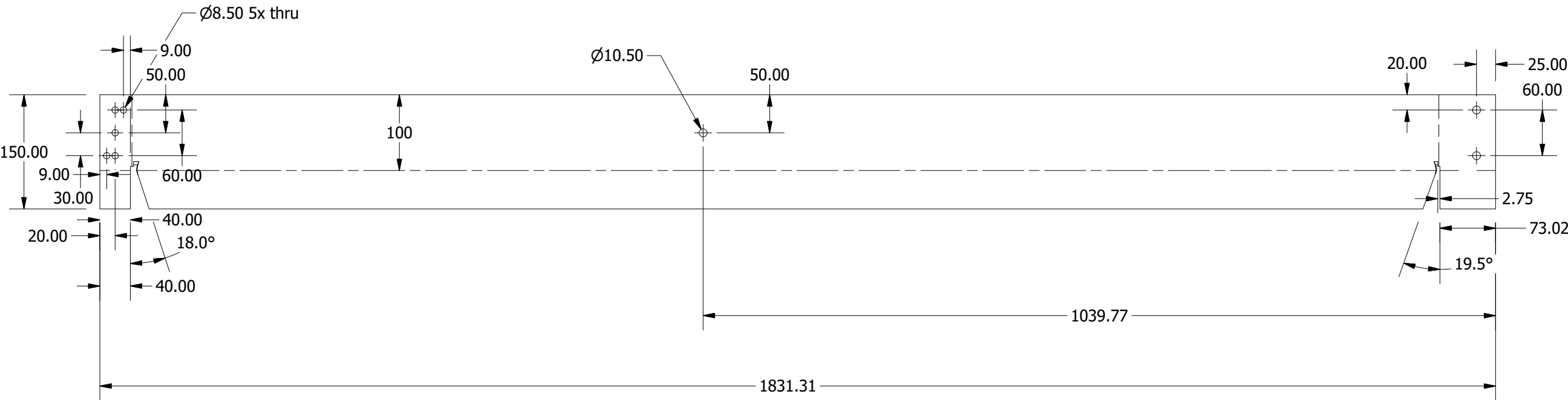
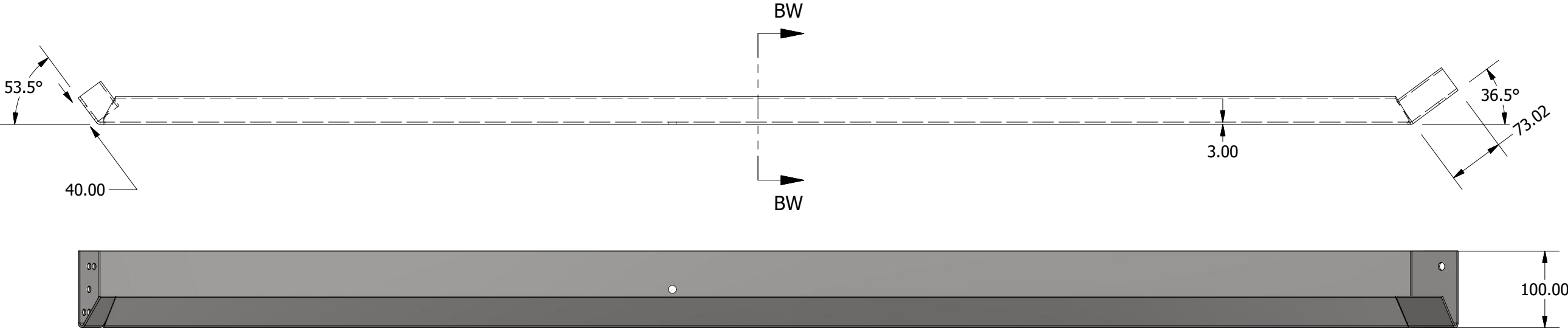
Description
Wing Bracket2 100x3x1733.59mm

Part name
CWT-01-9.7

Scale
1 : 5

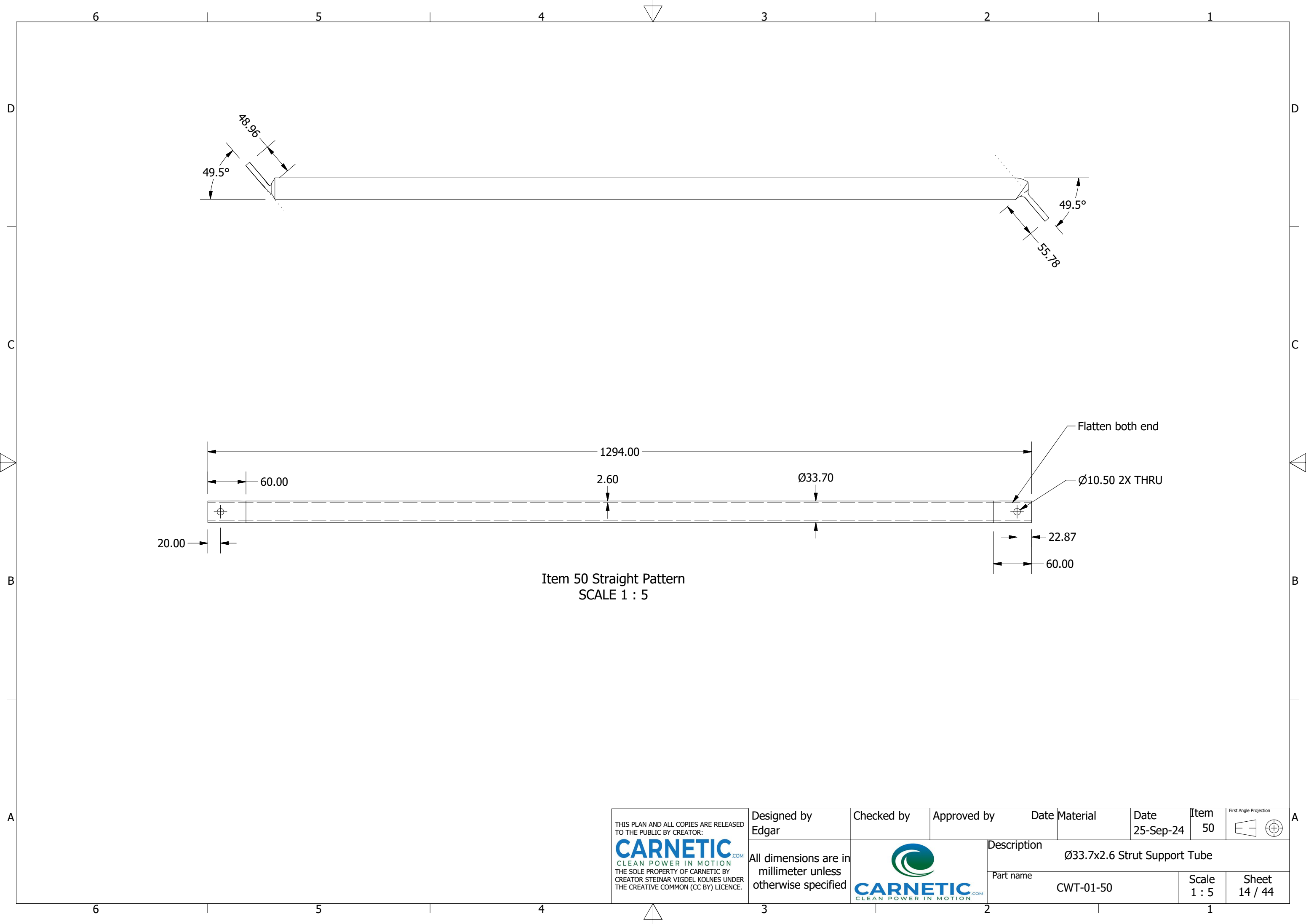
Sheet
12 / 44

Note: Material-Hot dip
galvanized



SECTION BW-BW
SCALE 1 : 2

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	All dimensions are in millimeter unless otherwise specified				Description Strut Steel plate 100x6x1832.82mm				
				Part name CWT-01-9.1		Scale 1 : 6		Sheet 13 / 44	



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Date 25-Sep-24

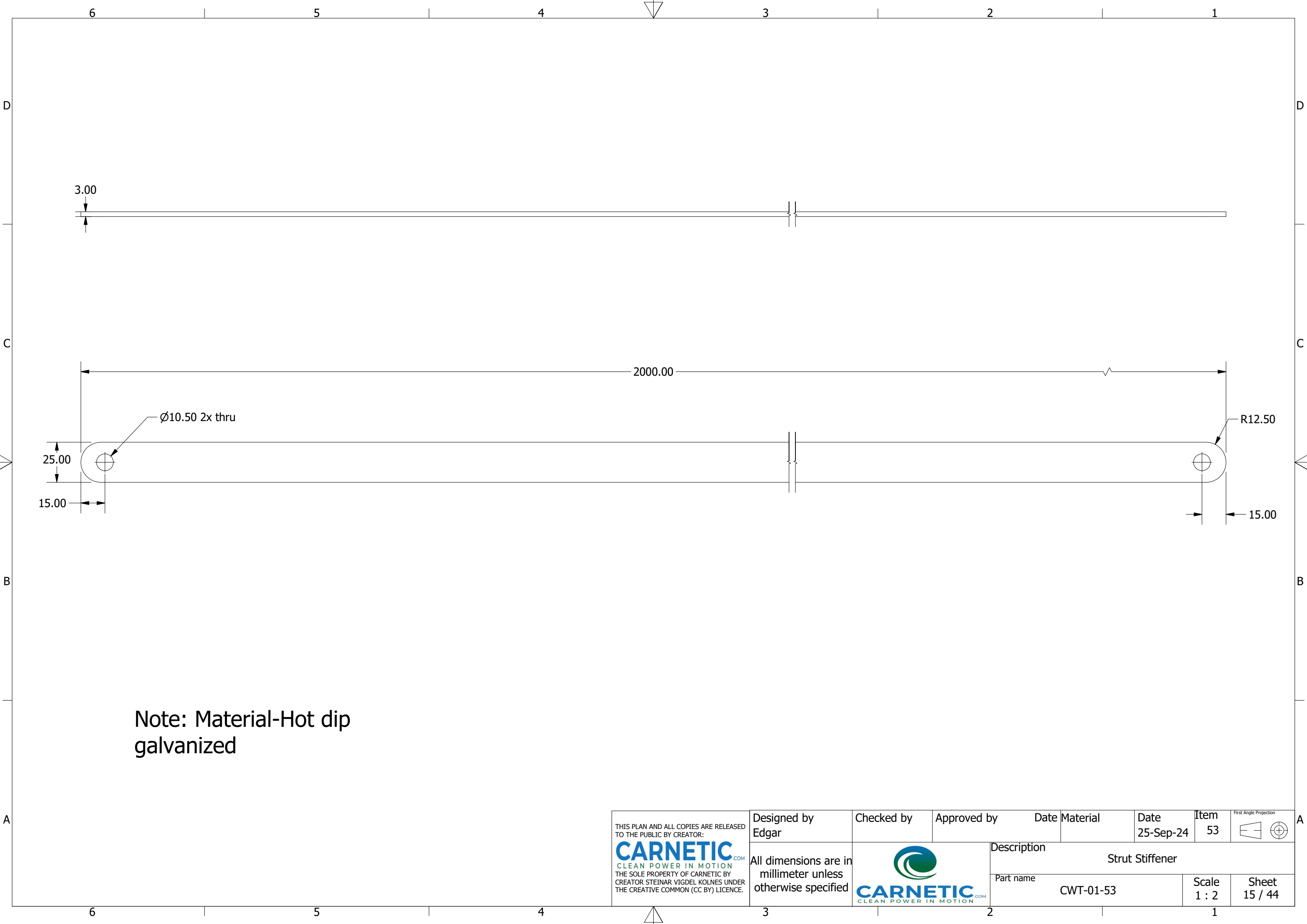
Item 50

Description
Ø33.7x2.6 Strut Support Tube

Part name
CWT-01-50

Scale
1 : 5

Sheet
14 / 44



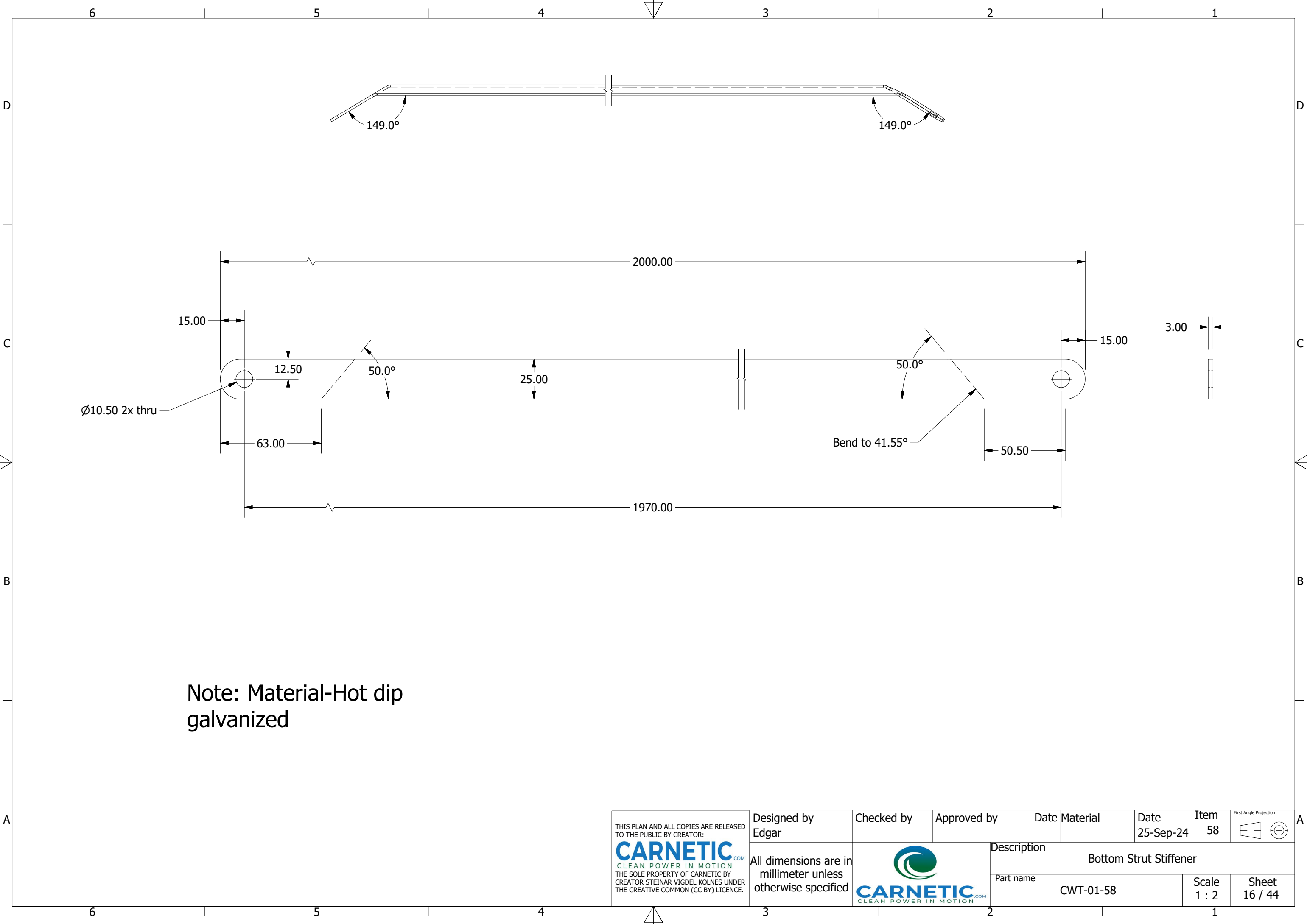
Note: Material-Hot dip
galvanized

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Checked by
 CARNETIC CLEAN POWER IN MOTION

by	Date	Material	Date	Item	First Angle Projection
			25-Sep-24	53	
Description					
Strut Stiffener					
Part name				Scale	Sheet
CWT-01-53				1 : 2	15 / 44



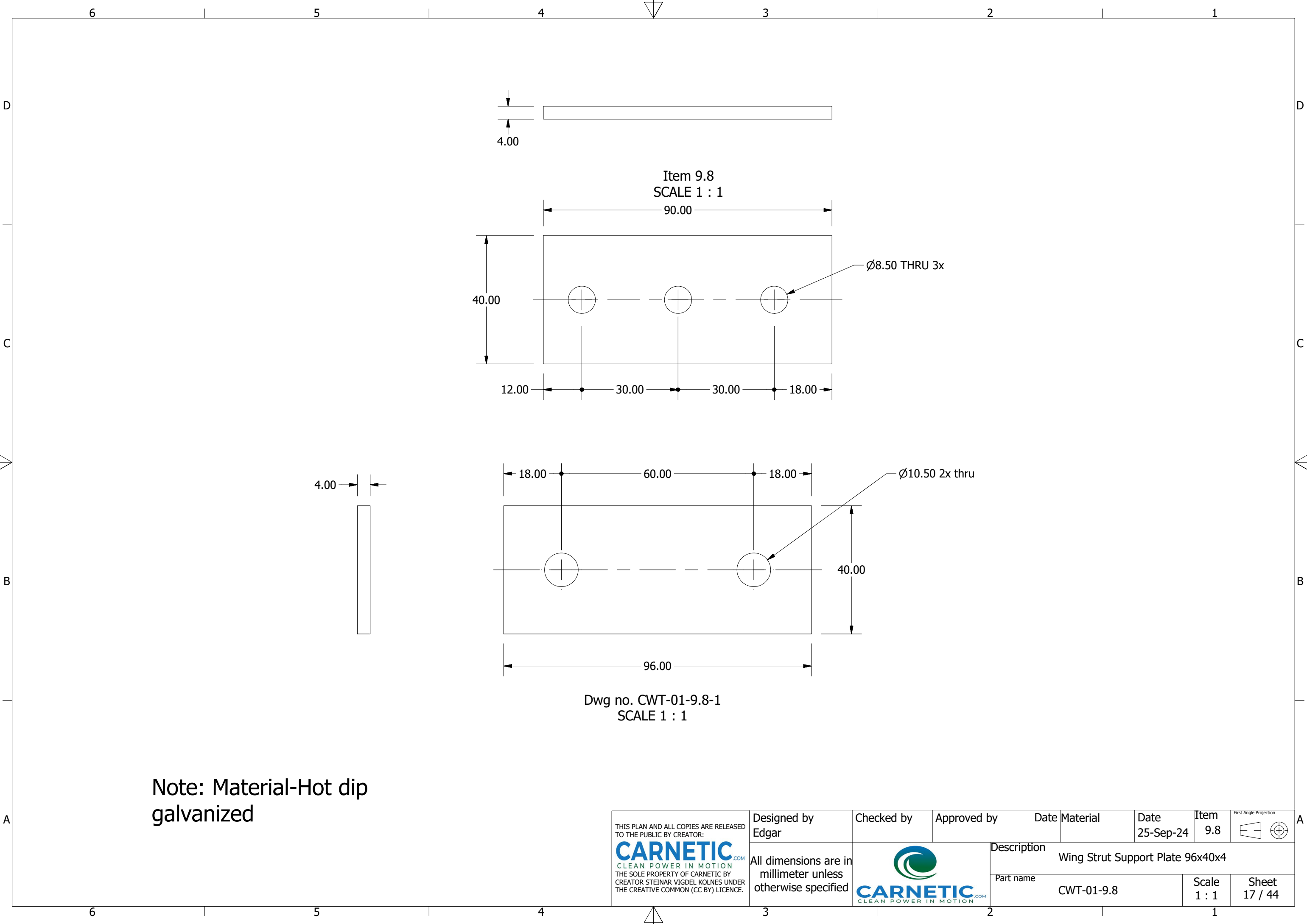
Note: Material-Hot dip galvanized

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Checked by
Approved by
Date
Material
Date
Item
First Angle Projection

Description
Bottom Strut Stiffener
Part name
CWT-01-58
Scale
1 : 2
Sheet
16 / 44



Note: Material-Hot dip galvanized

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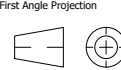
Approved by

Date

Material

Date
25-Sep-24

Item
9.8



All dimensions are in millimeter unless otherwise specified

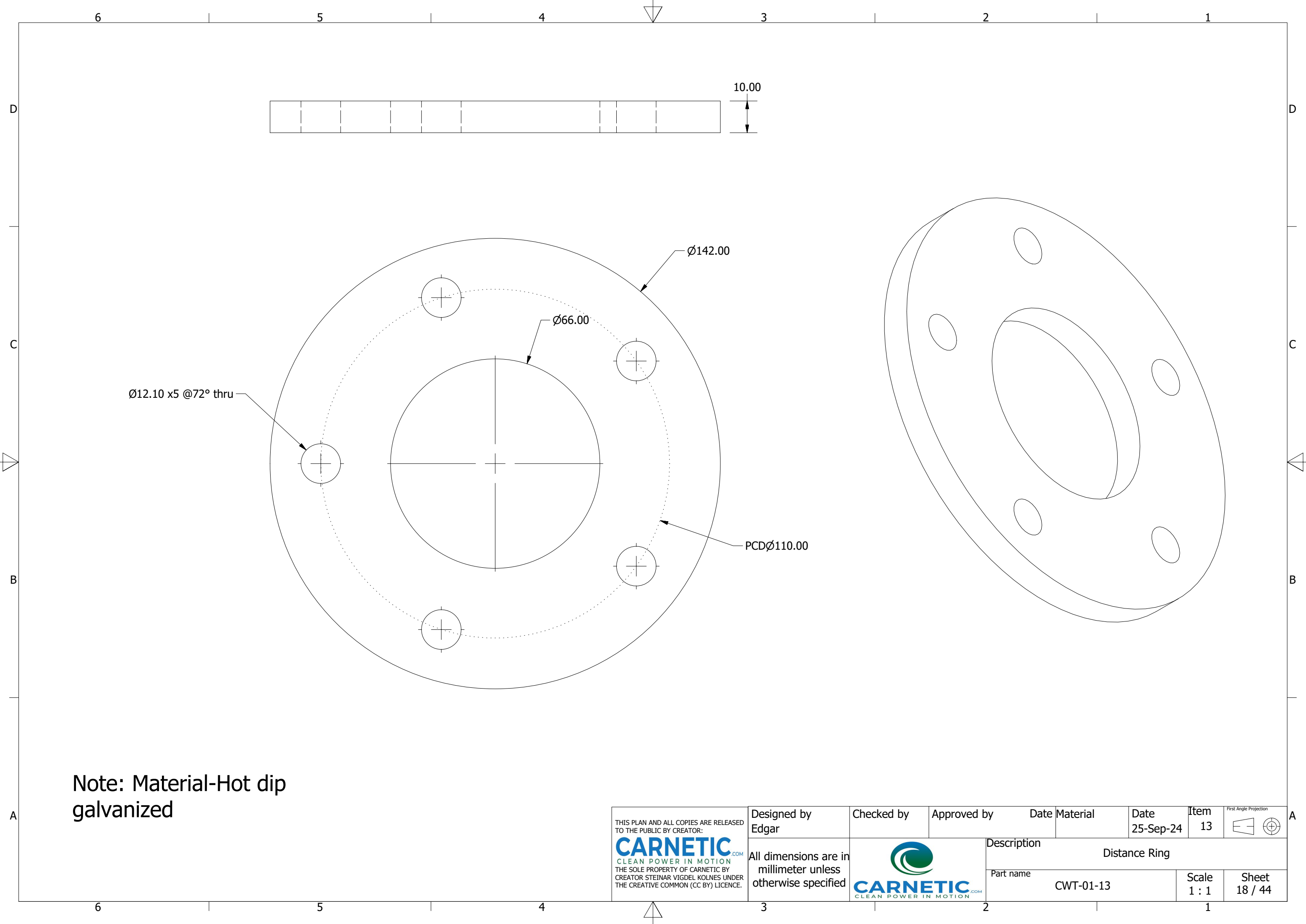


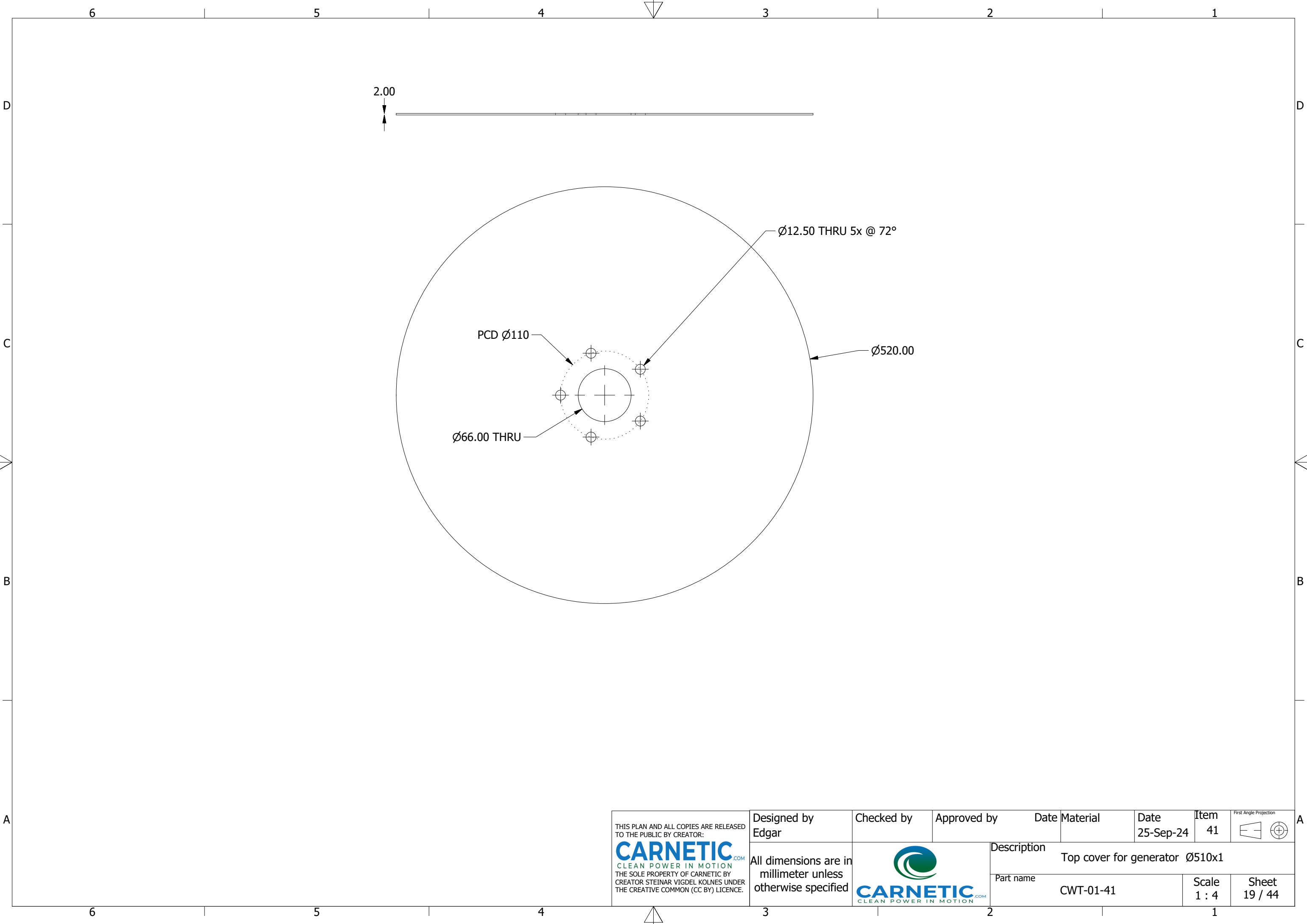
Description
Wing Strut Support Plate 96x40x4

Part name
CWT-01-9.8

Scale
1 : 1

Sheet
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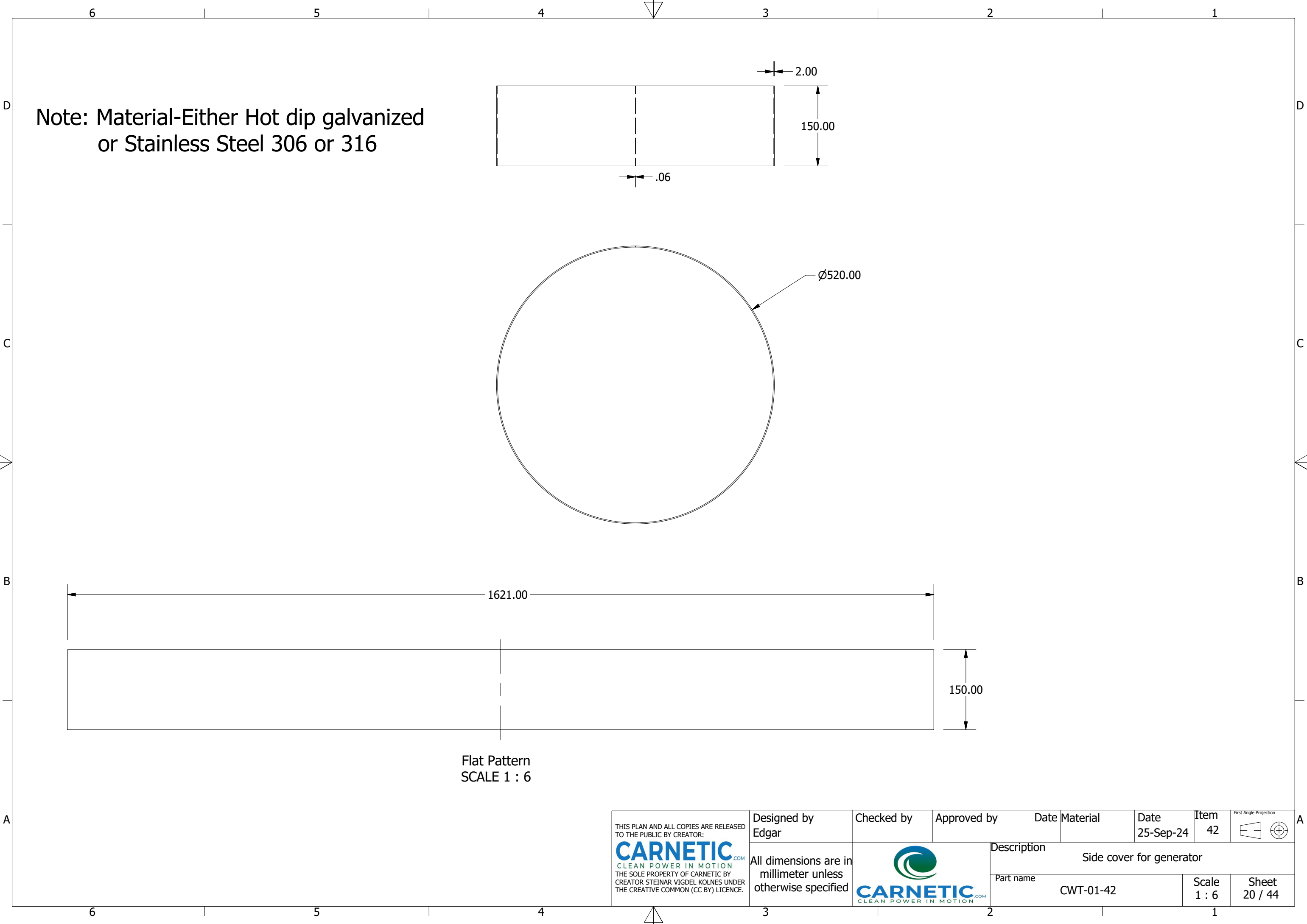
Checked by
Approved by
Date
Material
Date 25-Sep-24
Item 41
First Angle Projection



CARNETIC

CLEAN POWER IN MOTION

Description Top cover for generator Ø510x1			
Part name CWT-01-41		Scale 1 : 4	Sheet 19 / 44



Note: Material-Either Hot dip galvanized
or Stainless Steel 306 or 316

Flat Pattern
SCALE 1 : 6

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Date
25-Sep-24

Item
42

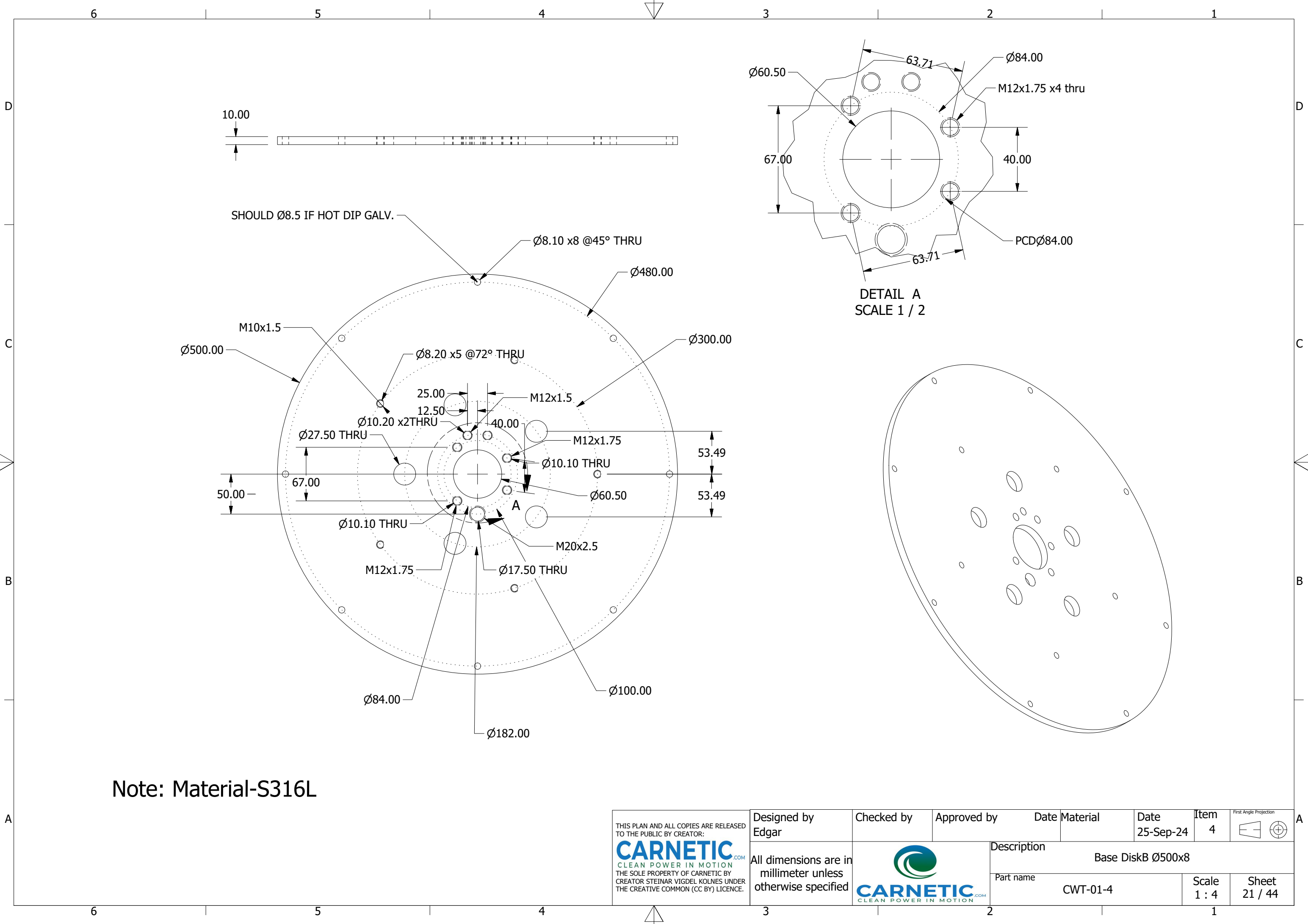
First Angle Projection

Description
Side cover for generator

Part name
CWT-01-42

Scale
1 : 6

Sheet
20 / 44

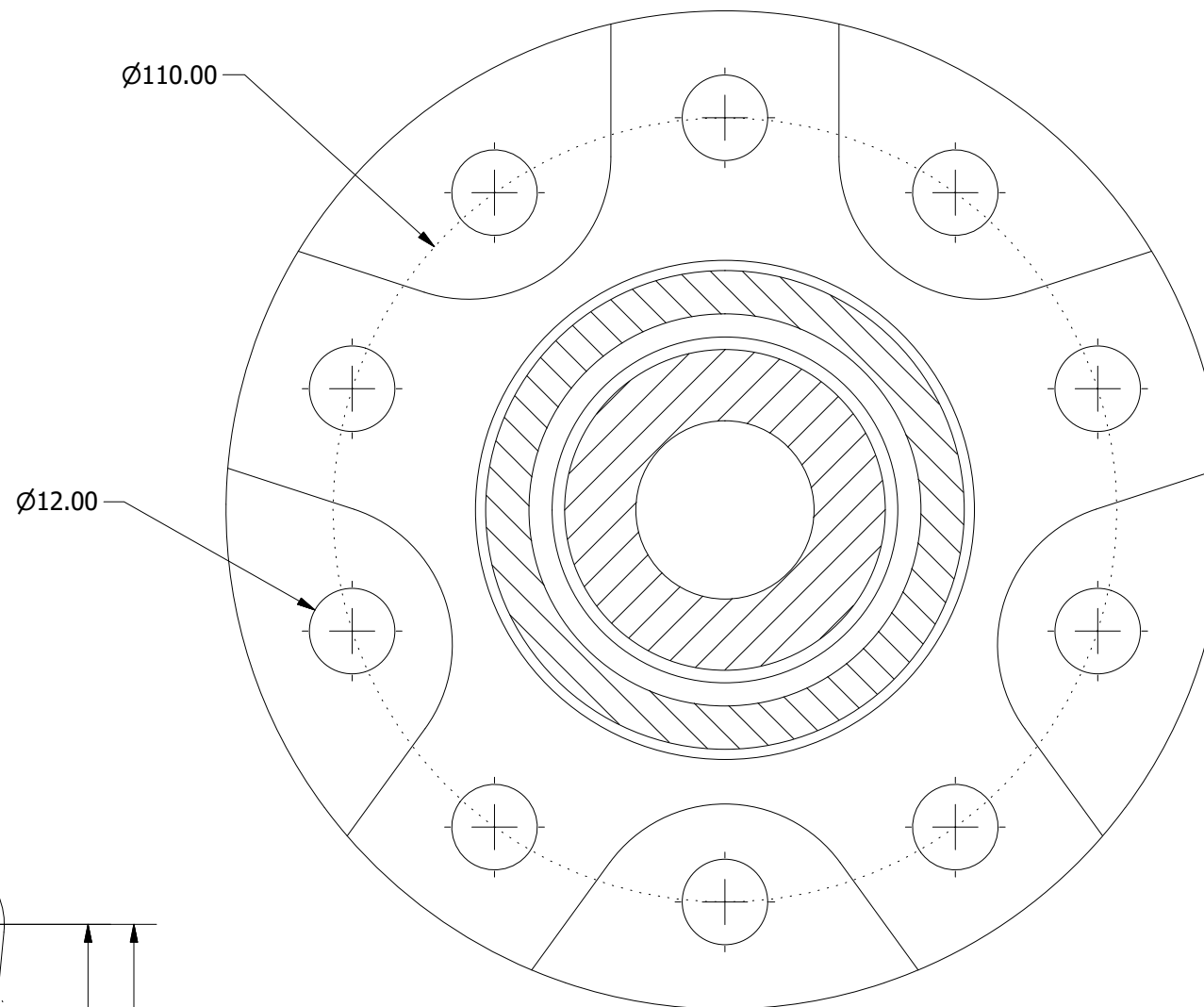
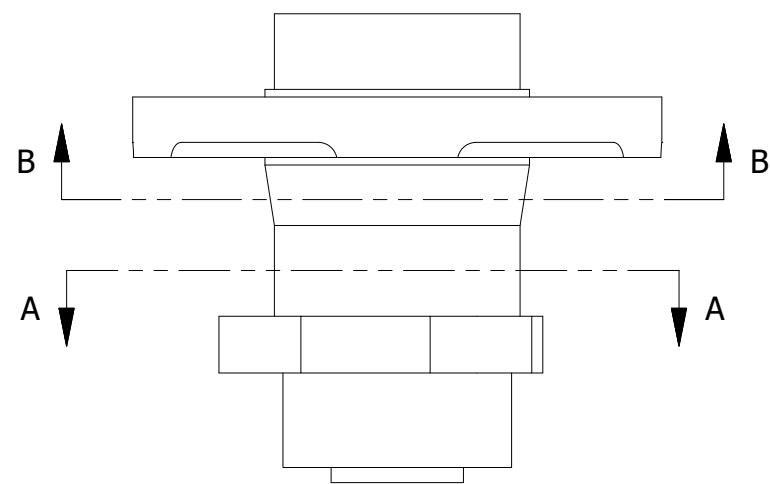


Note: Material-S316L

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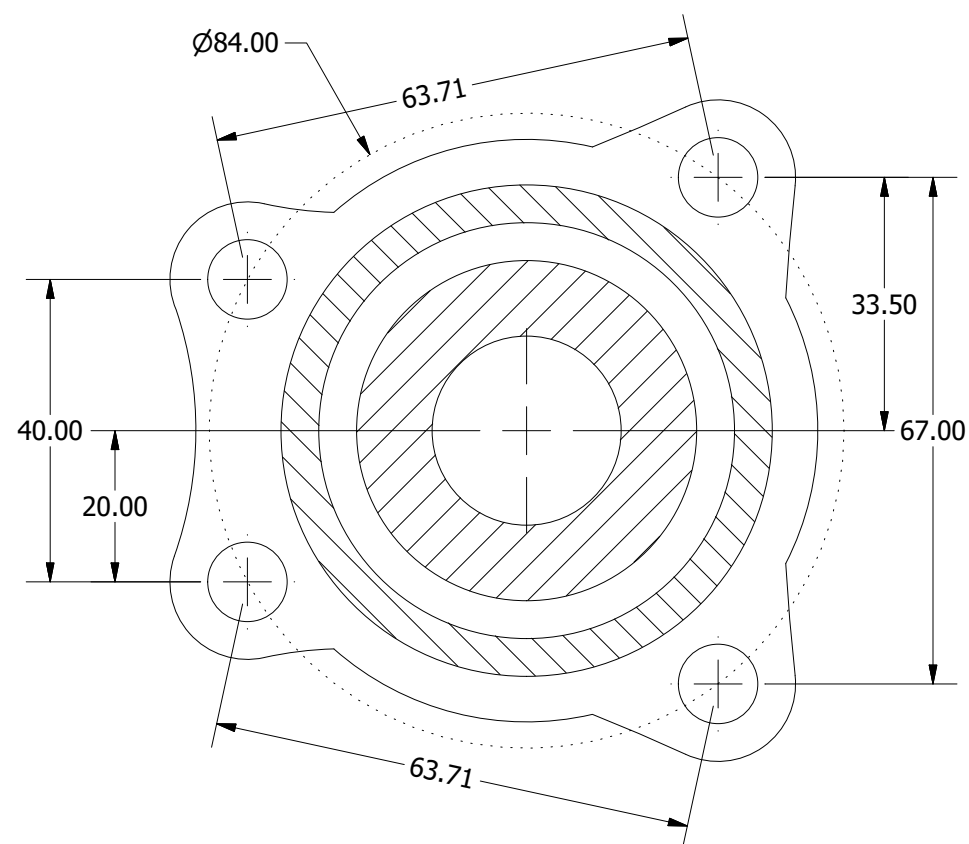
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All dimensions are in millimeter unless otherwise specified				Description Base DiskB Ø500x8			
				Part name CWT-01-4	Scale 1 : 4	Sheet 21 / 44	



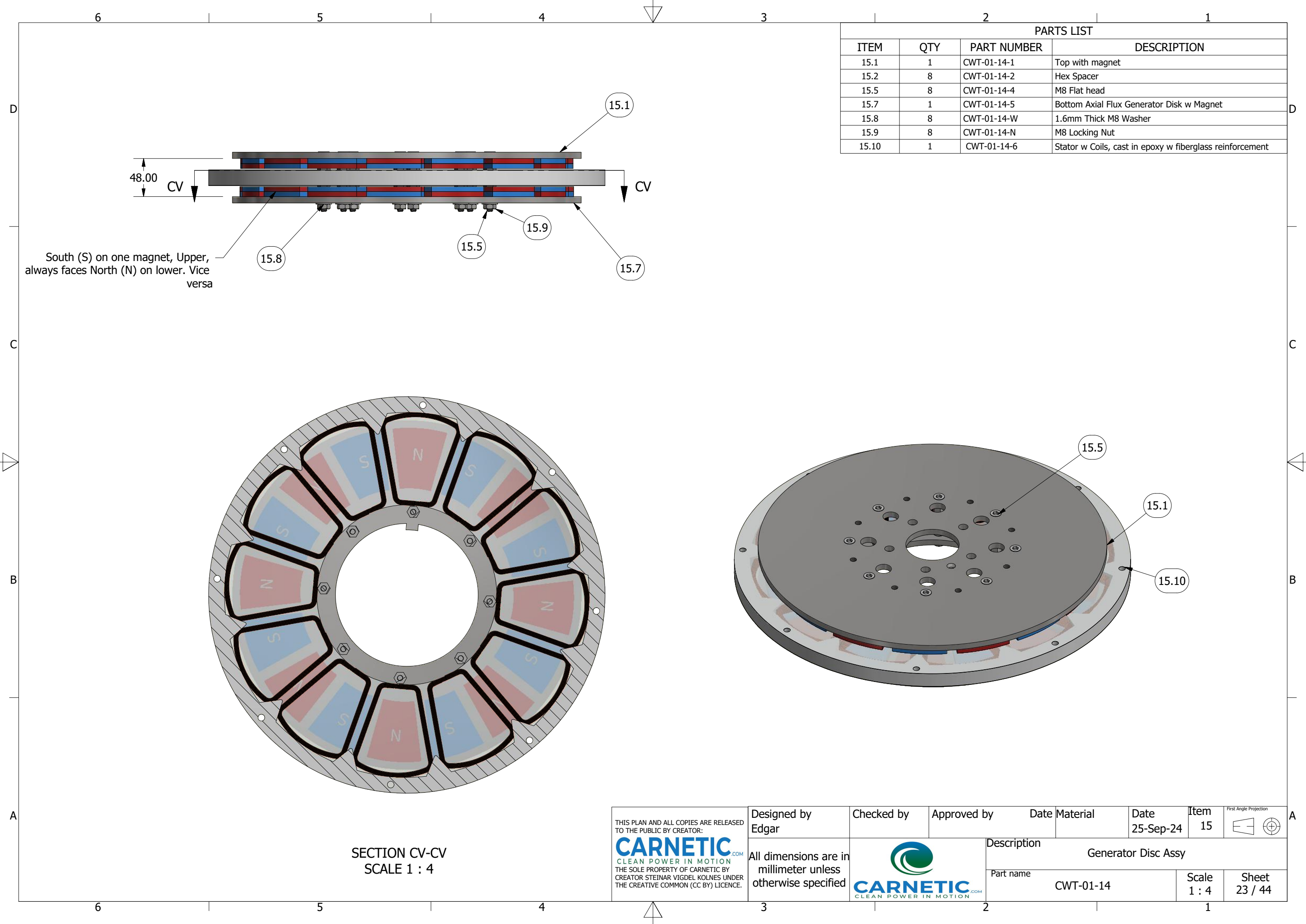
SECTION B-B
SCALE 1 : 1

Note: View is for hole PCD only for verification



SECTION A-A
SCALE 1 : 1

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	All dimensions are in millimeter unless otherwise specified	 CARNETIC CLEAN POWER IN MOTION	Description Wheel Axle SKF VKBA 3514 or Equivalent						
			Part name SKF VKBA 3514					Scale 1 : 2	Sheet 22 / 44



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
15.1	1	CWT-01-14-1	Top with magnet
15.2	8	CWT-01-14-2	Hex Spacer
15.5	8	CWT-01-14-4	M8 Flat head
15.7	1	CWT-01-14-5	Bottom Axial Flux Generator Disk w Magnet
15.8	8	CWT-01-14-W	1.6mm Thick M8 Washer
15.9	8	CWT-01-14-N	M8 Locking Nut
15.10	1	CWT-01-14-6	Stator w Coils, cast in epoxy w fiberglass reinforcement

South (S) on one magnet, Upper,
always faces North (N) on lower. Vice
versa

SECTION CV-CV
SCALE 1 : 4

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CLEAN POWER IN MOTION

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Material

Date
25-Sep-24

Item
15

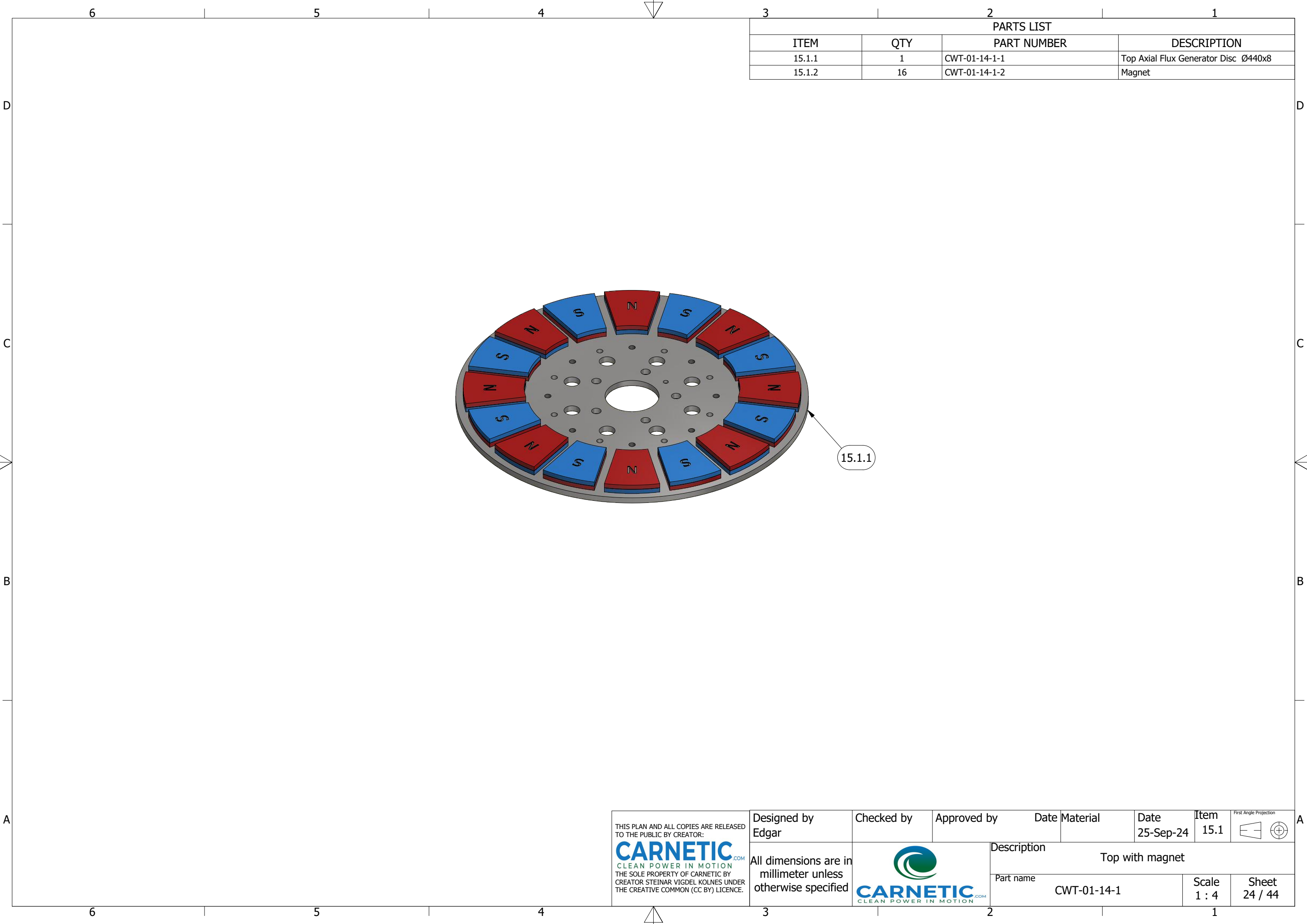
First Angle Projection

Description
Generator Disc Assy

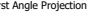
Part name
CWT-01-14

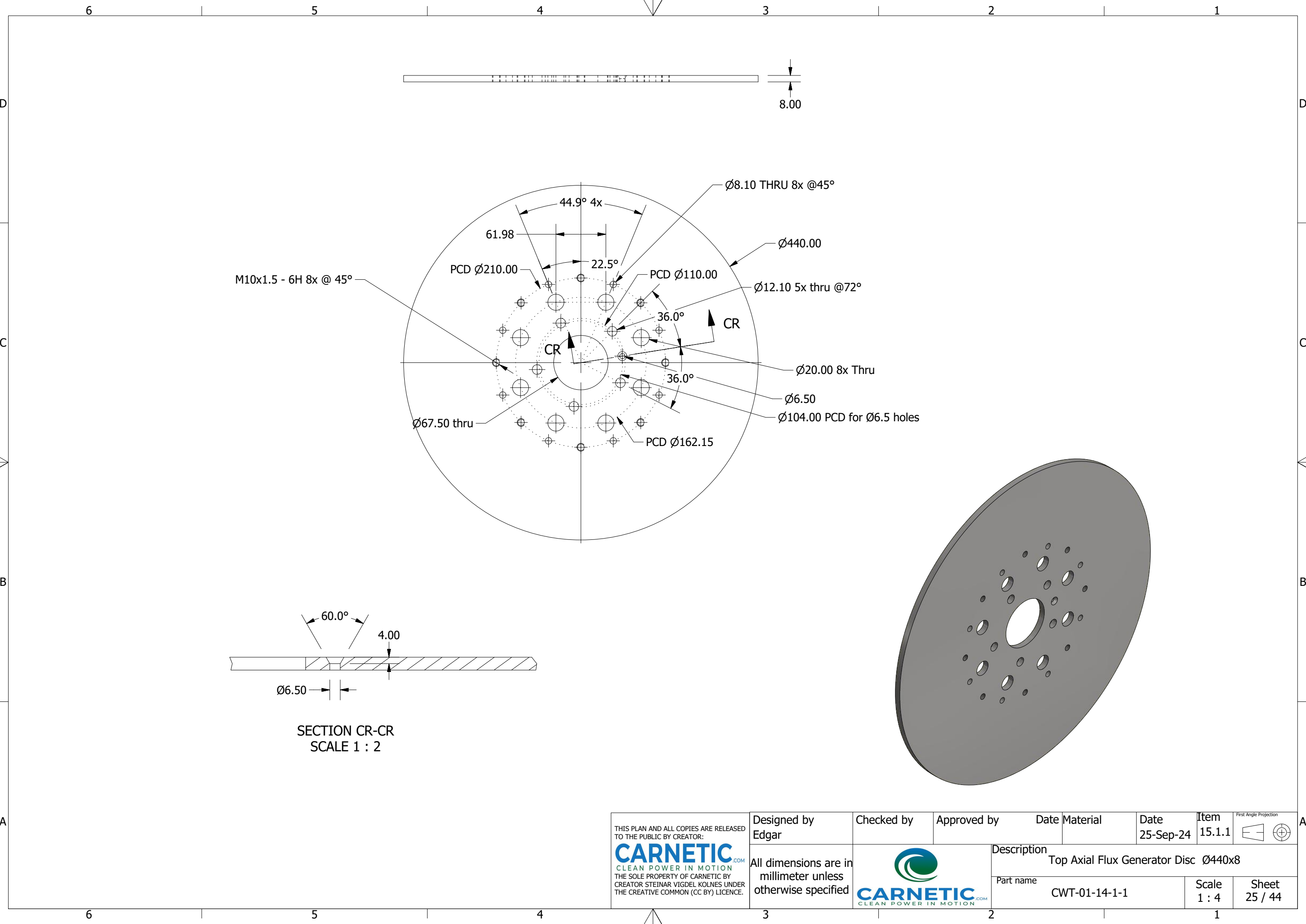
Scale
1 : 4

Sheet
23 / 44



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
15.1.1	1	CWT-01-14-1-1	Top Axial Flux Generator Disc Ø440x8
15.1.2	16	CWT-01-14-1-2	Magnet

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	All dimensions are in millimeter unless otherwise specified	 CARNETIC.com CLEAN POWER IN MOTION	Description Top with magnet						
			Part name CWT-01-14-1					Scale 1 : 4	Sheet 24 / 44

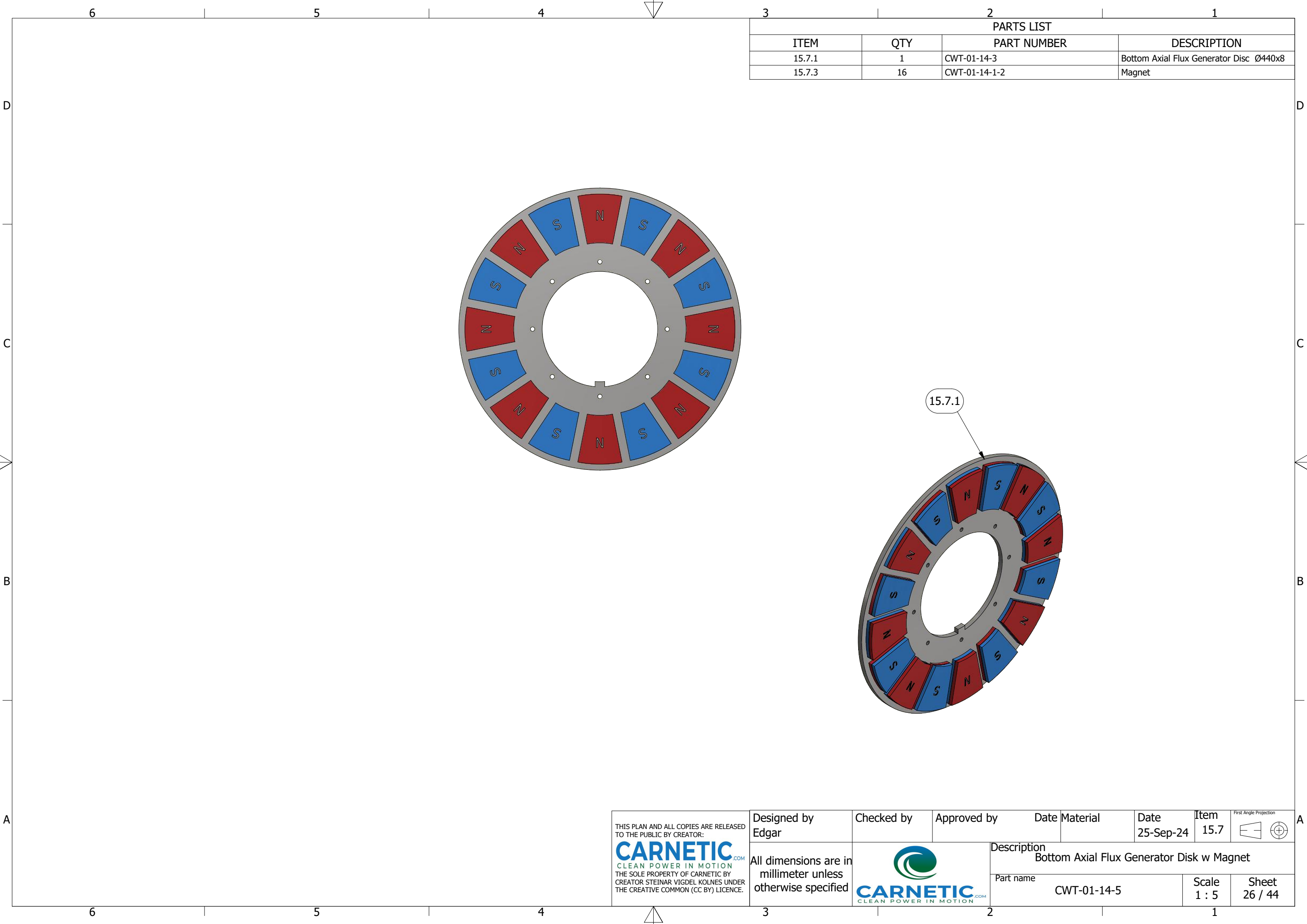


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Item
First Angle Projection

Description
Top Axial Flux Generator Disc Ø440x8
Part name
CWT-01-14-1-1
Scale
1 : 4
Sheet
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Item 15.7

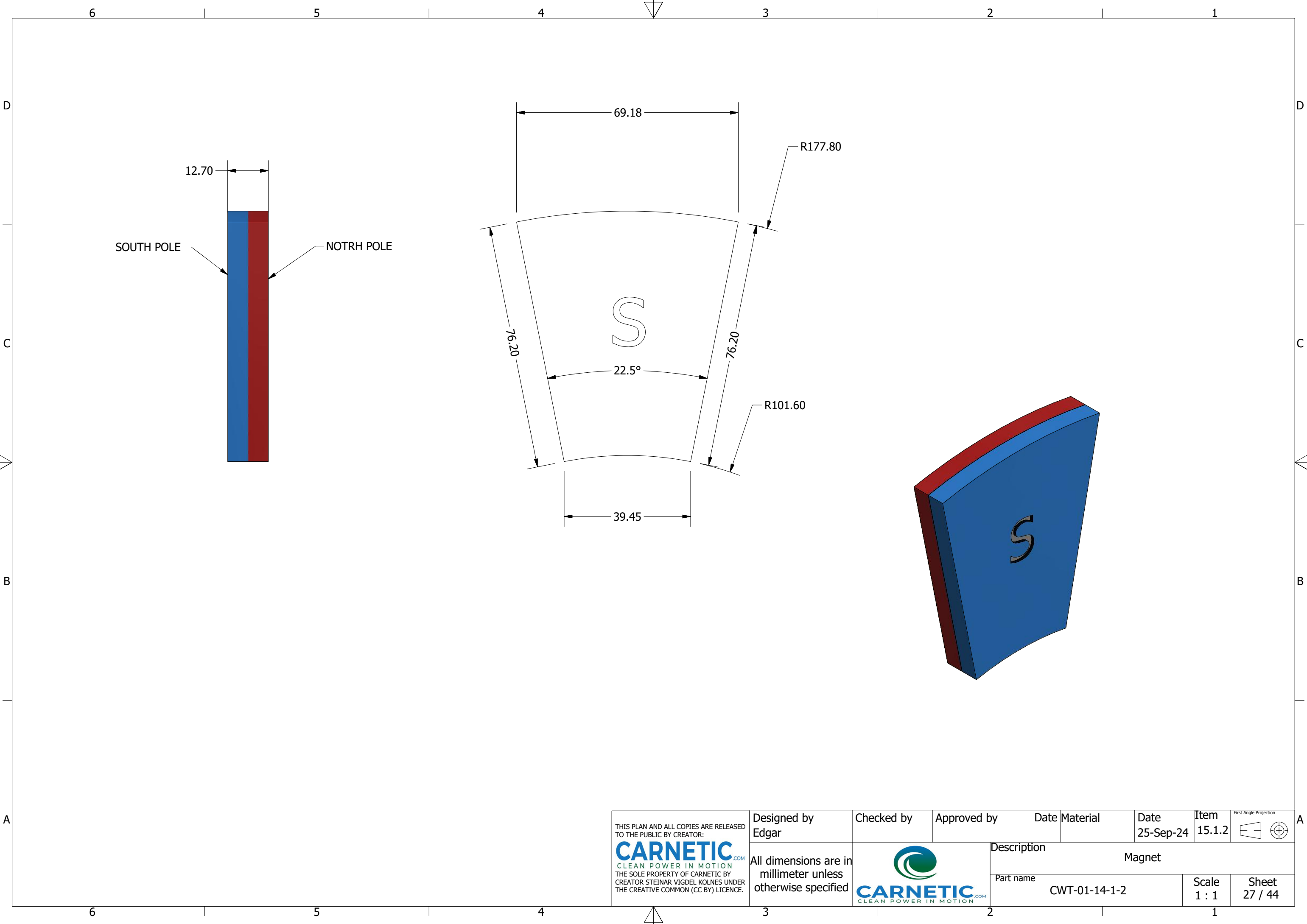
First Angle Projection

Description
Bottom Axial Flux Generator Disk w Magnet

Part name
CWT-01-14-5

Scale
1 : 5

Sheet
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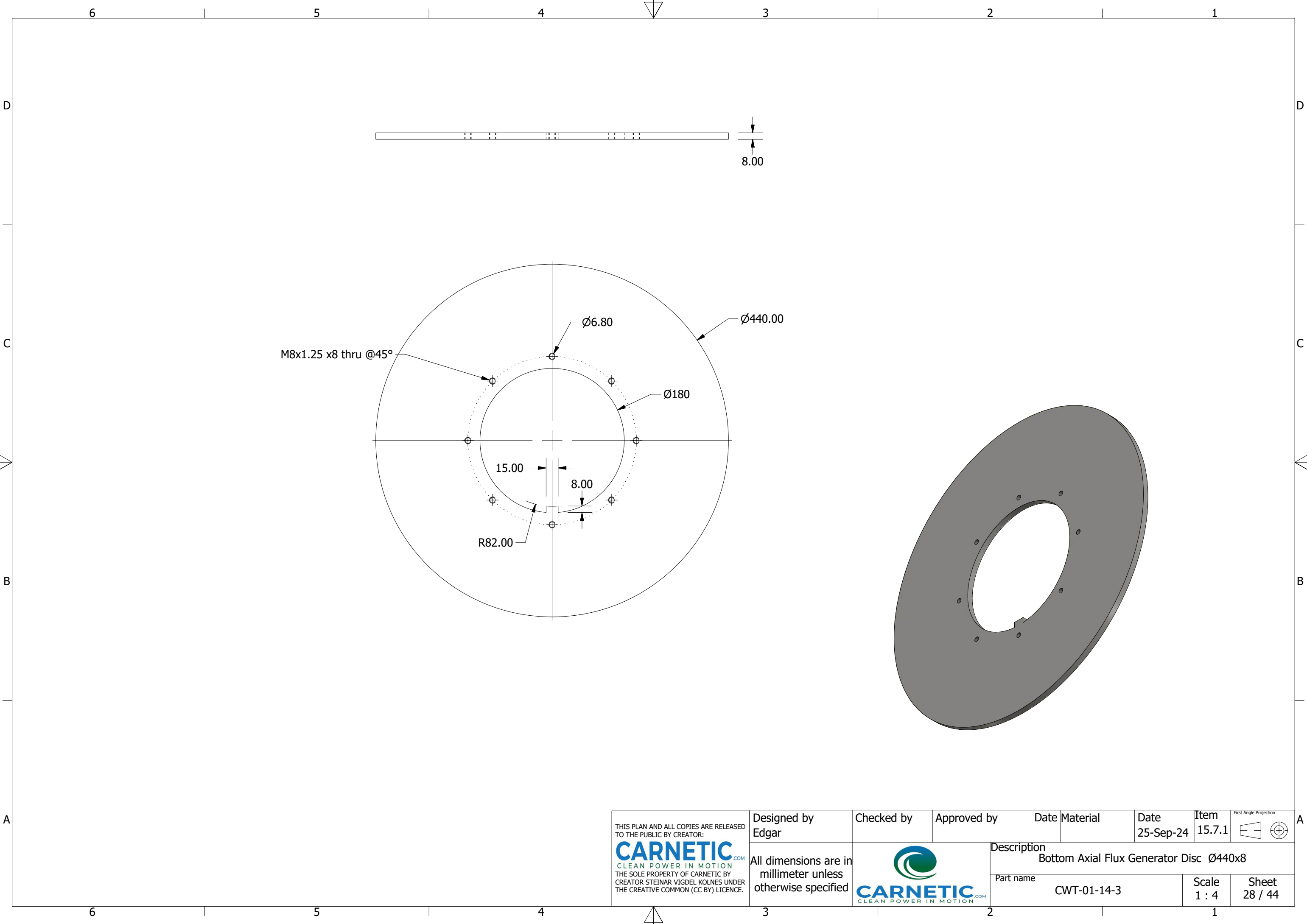
Item 15.1.2

Description
Magnet

Part name
CWT-01-14-1-2

Scale
1 : 1

Sheet
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Material

Date
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Item
15.7.1

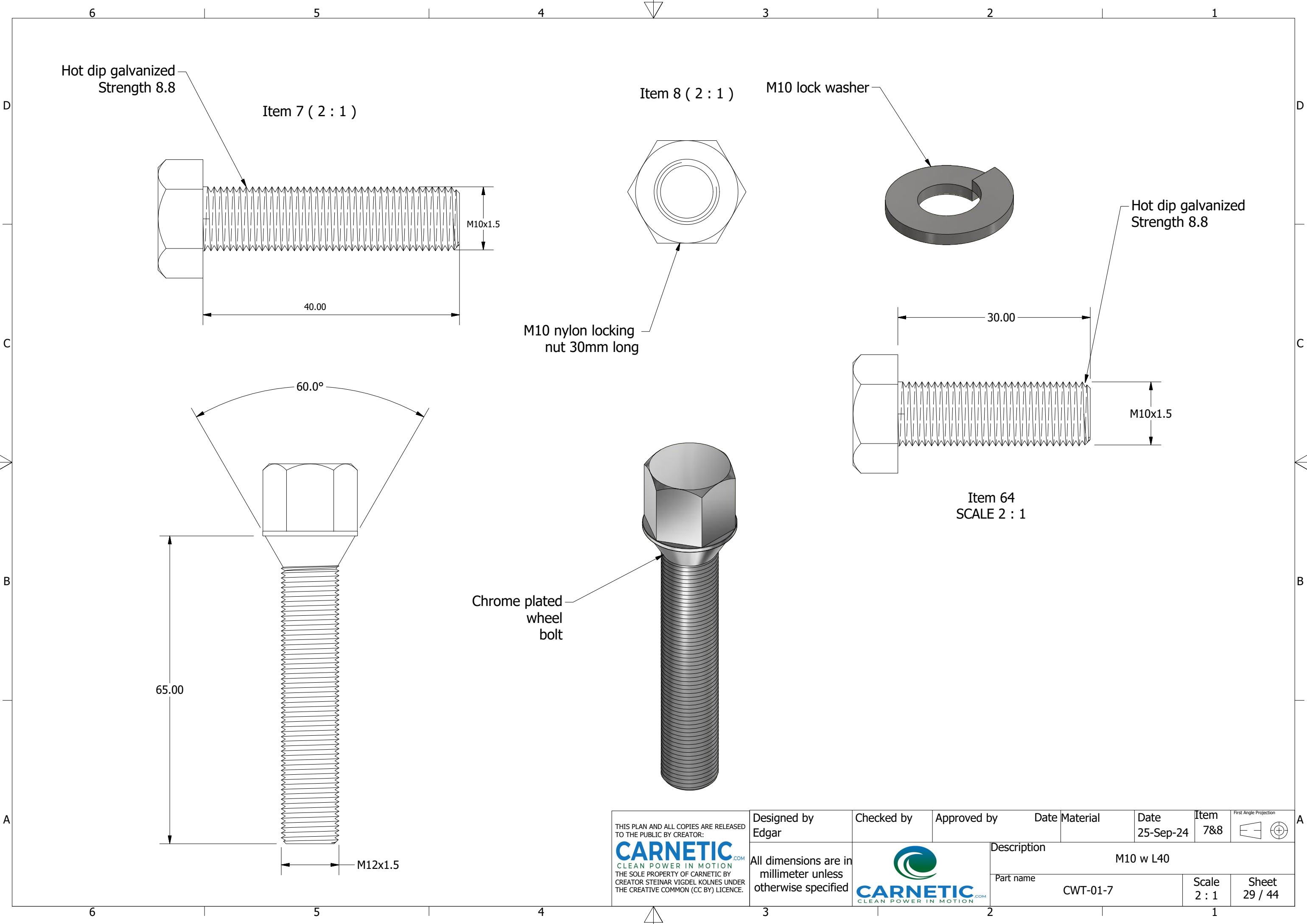
First Angle Projection

Description
Bottom Axial Flux Generator Disc Ø440x8

Part name
CWT-01-14-3

Scale
1 : 4

Sheet
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Date
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Item
7&8

First Angle Projection

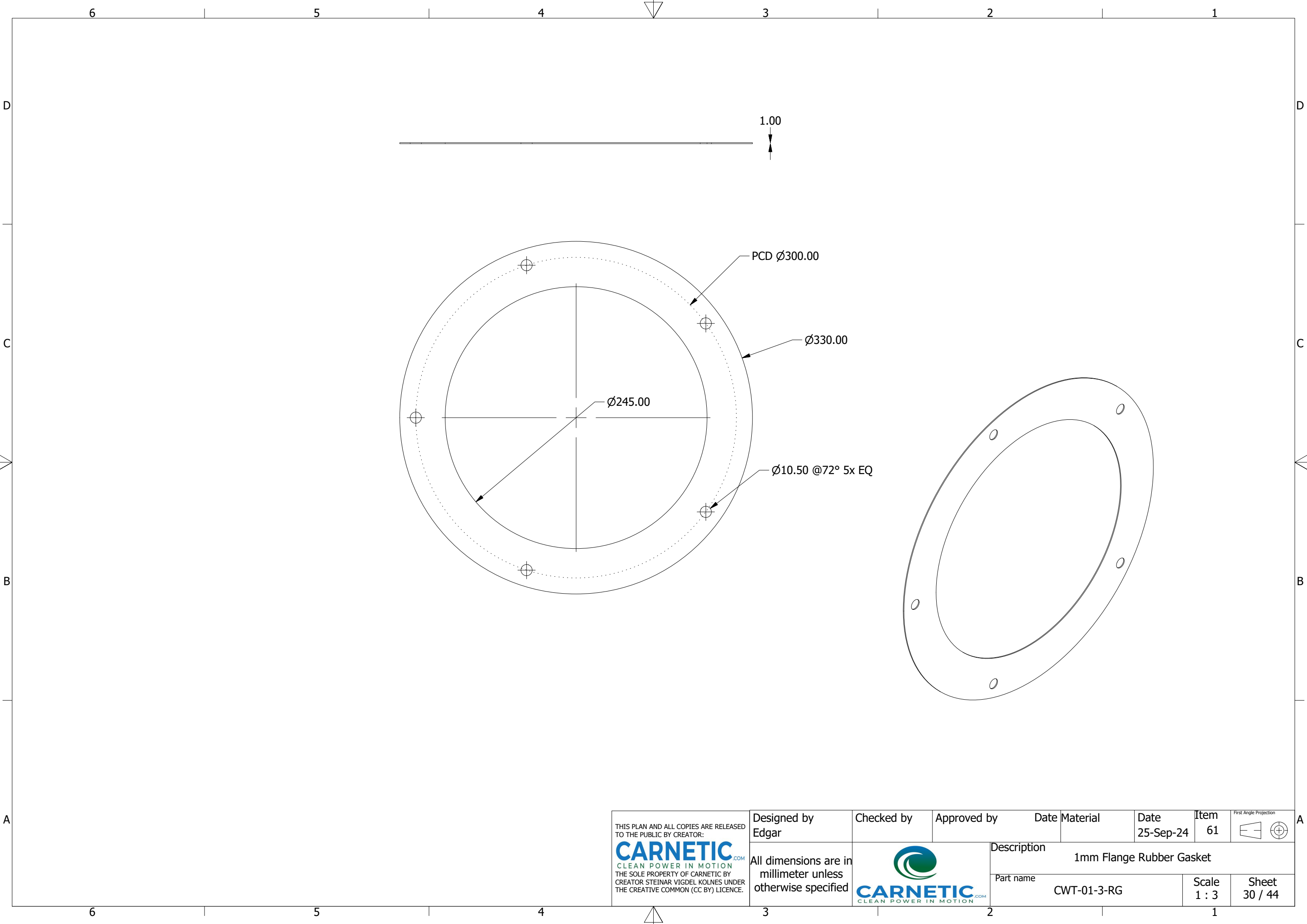
CARNETIC
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Description
M10 w L40

Part name
CWT-01-7

Scale
2 : 1

Sheet
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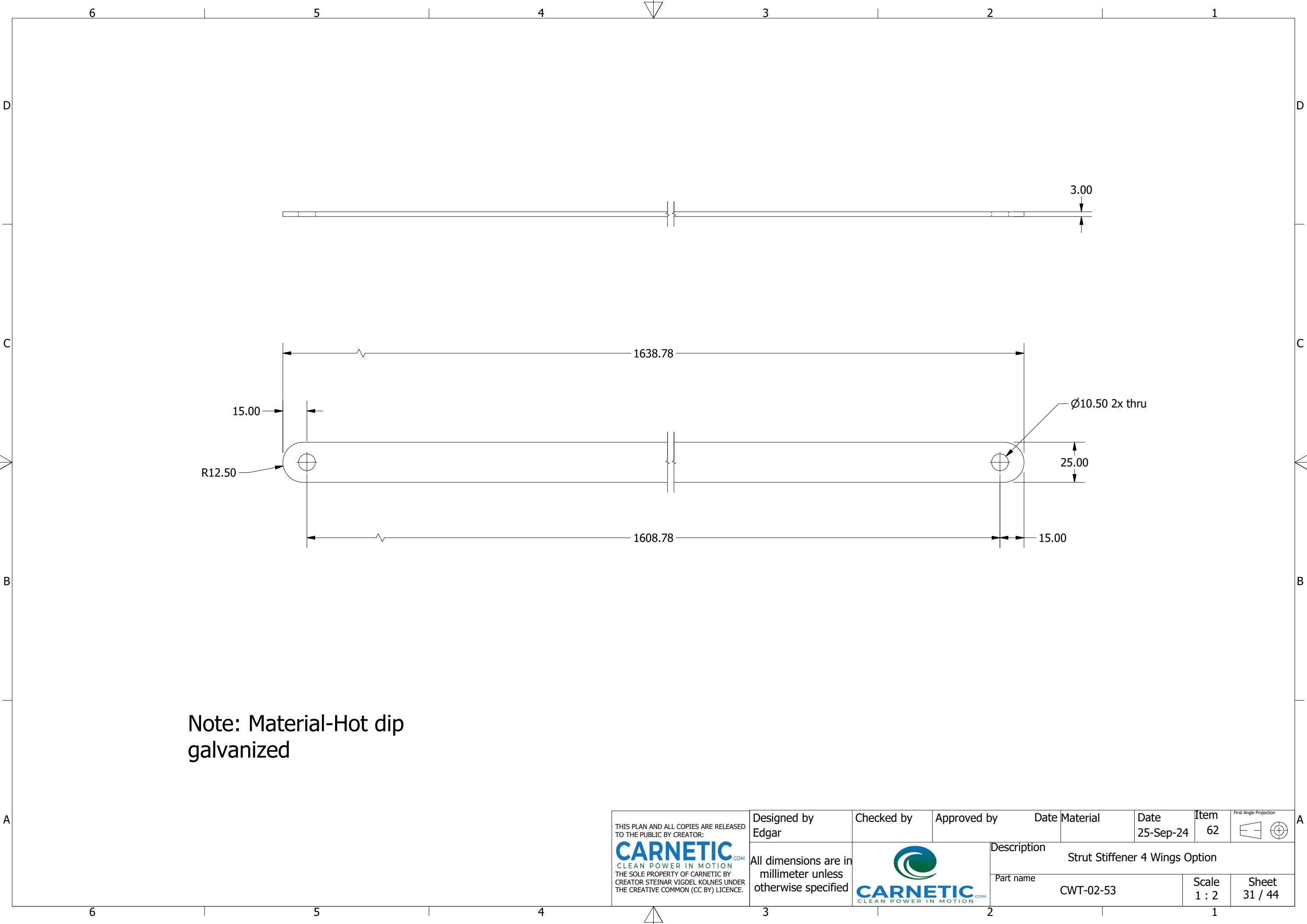
Material

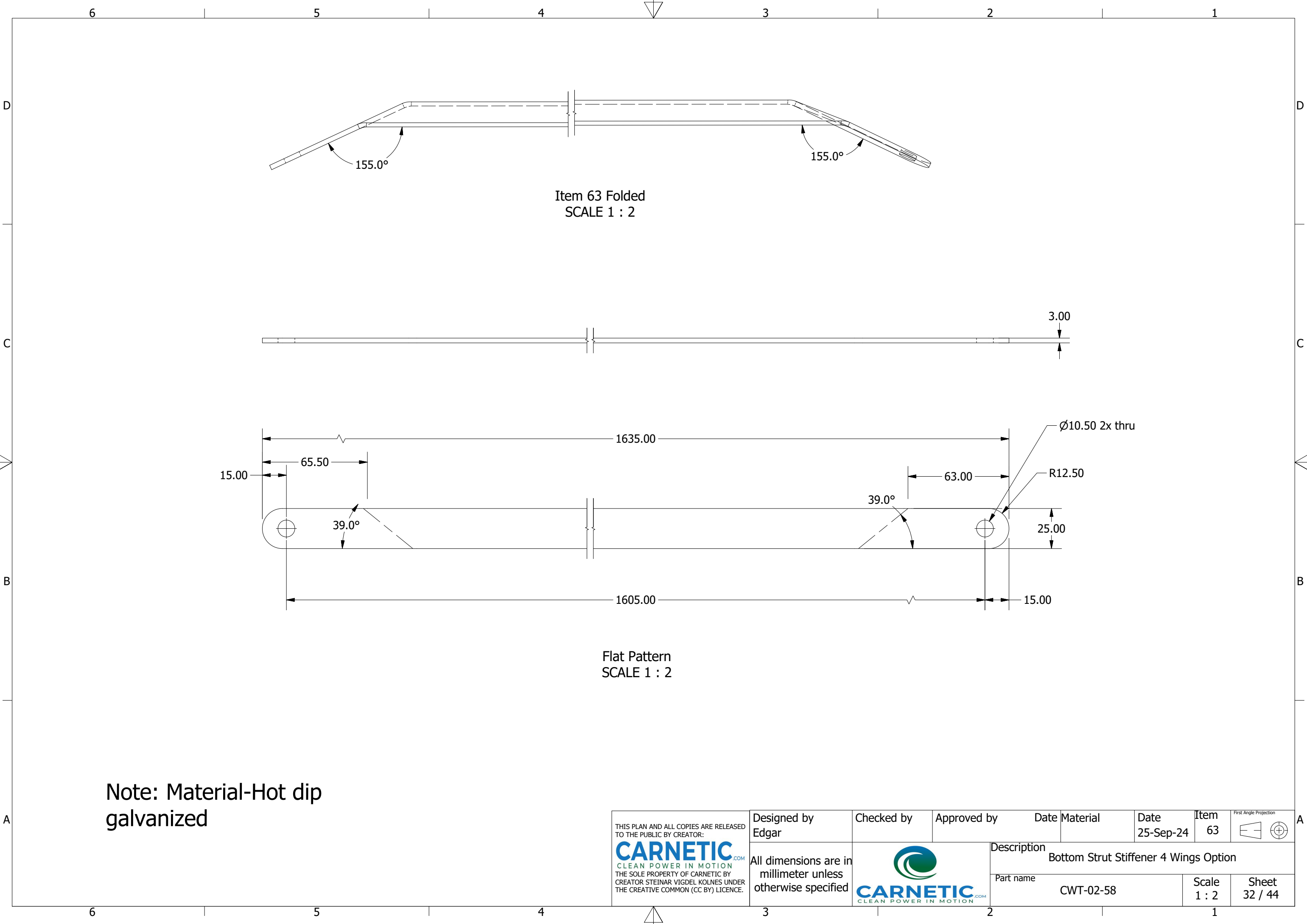
Date
25-Sep-24

Item
61

First Angle Projection

Description		1mm Flange Rubber Gasket	
Part name		CWT-01-3-RG	Scale 1 : 3
			Sheet 30 / 44





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Material

Date
25-Sep-24

Item
63

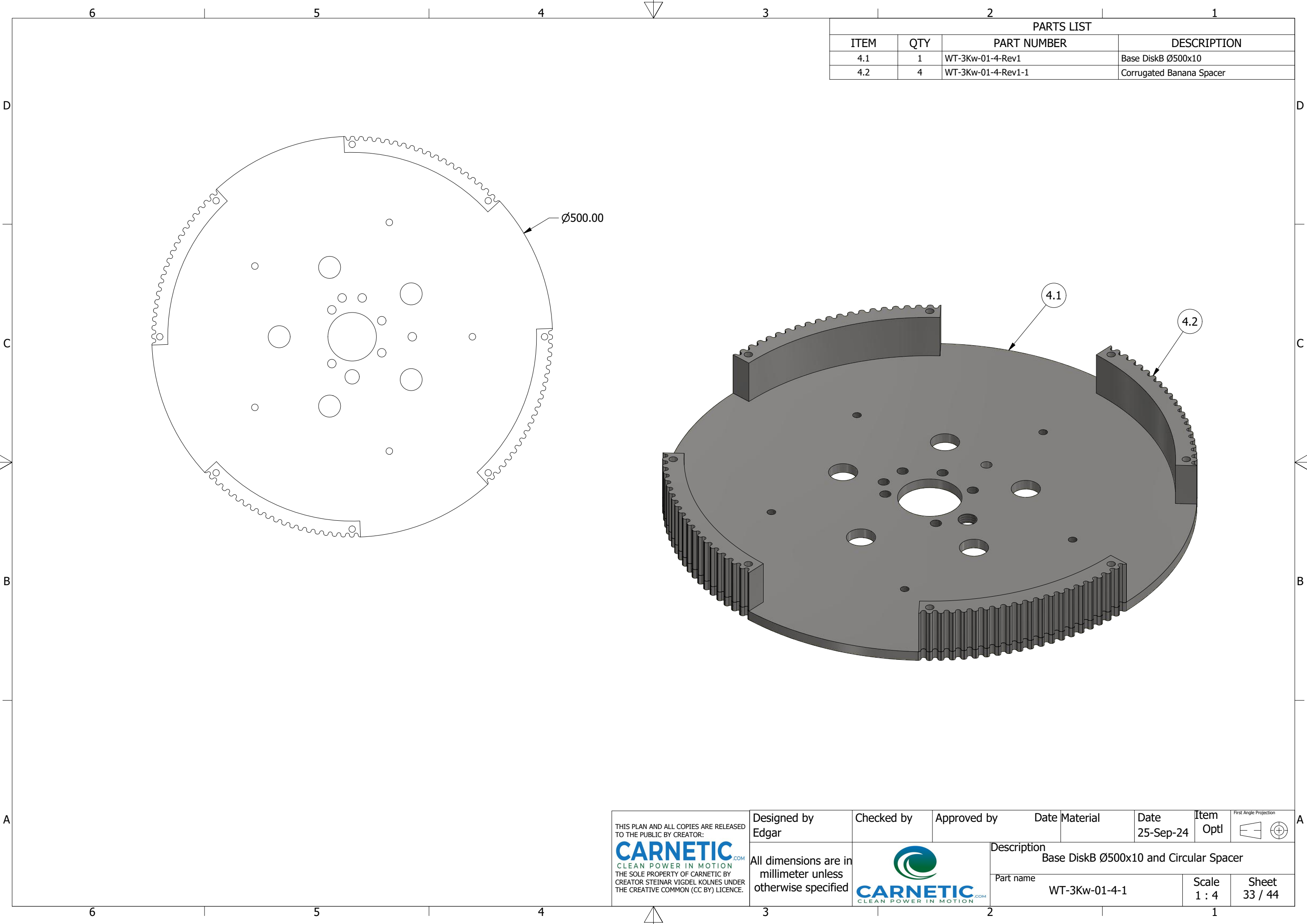
First Angle Projection

Description
Bottom Strut Stiffener 4 Wings Option

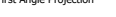
Part name
CWT-02-58

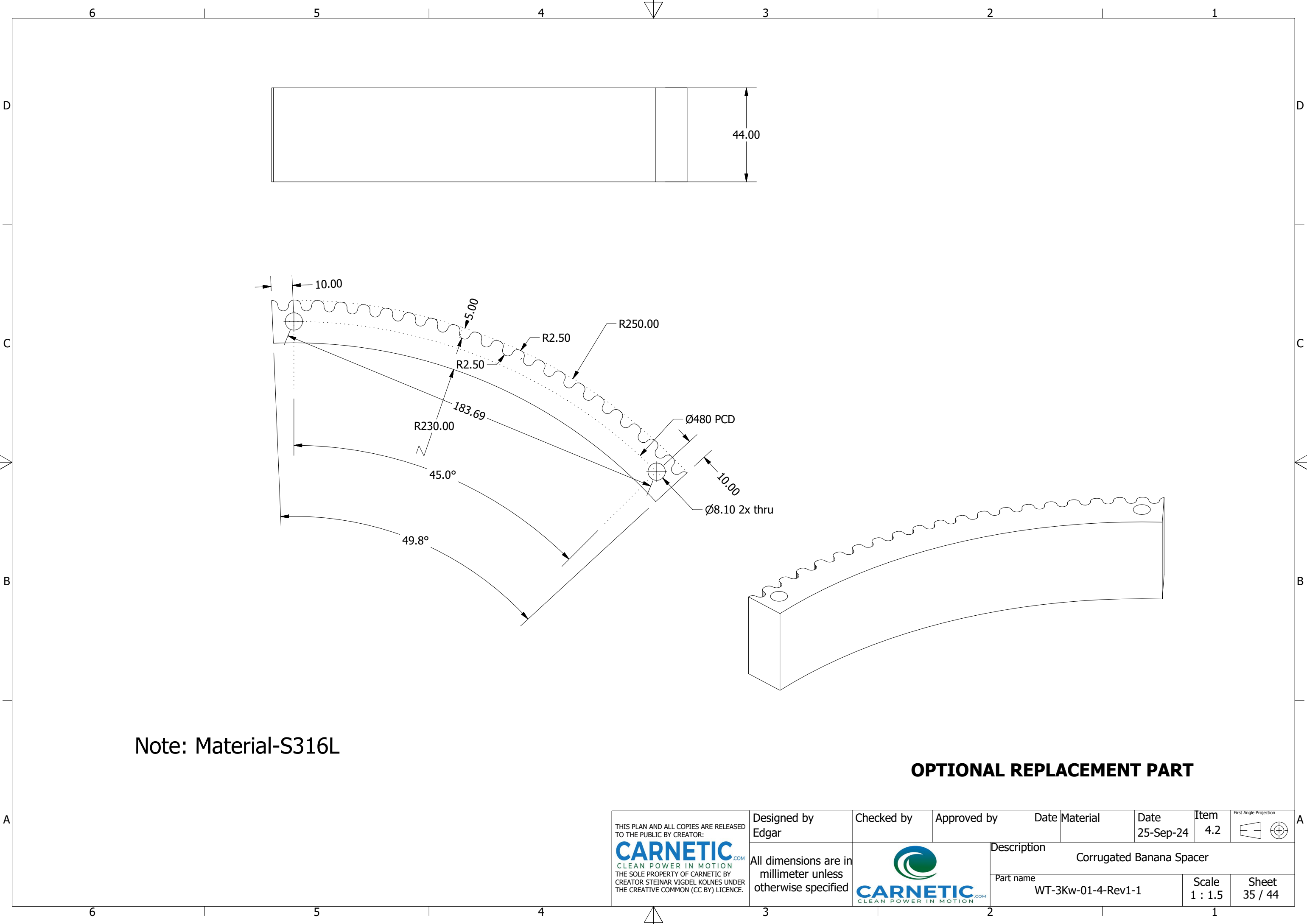
Scale
1 : 2

Sheet
32 / 44



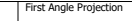
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
4.1	1	WT-3Kw-01-4-Rev1	Base DiskB Ø500x10
4.2	4	WT-3Kw-01-4-Rev1-1	Corrugated Banana Spacer

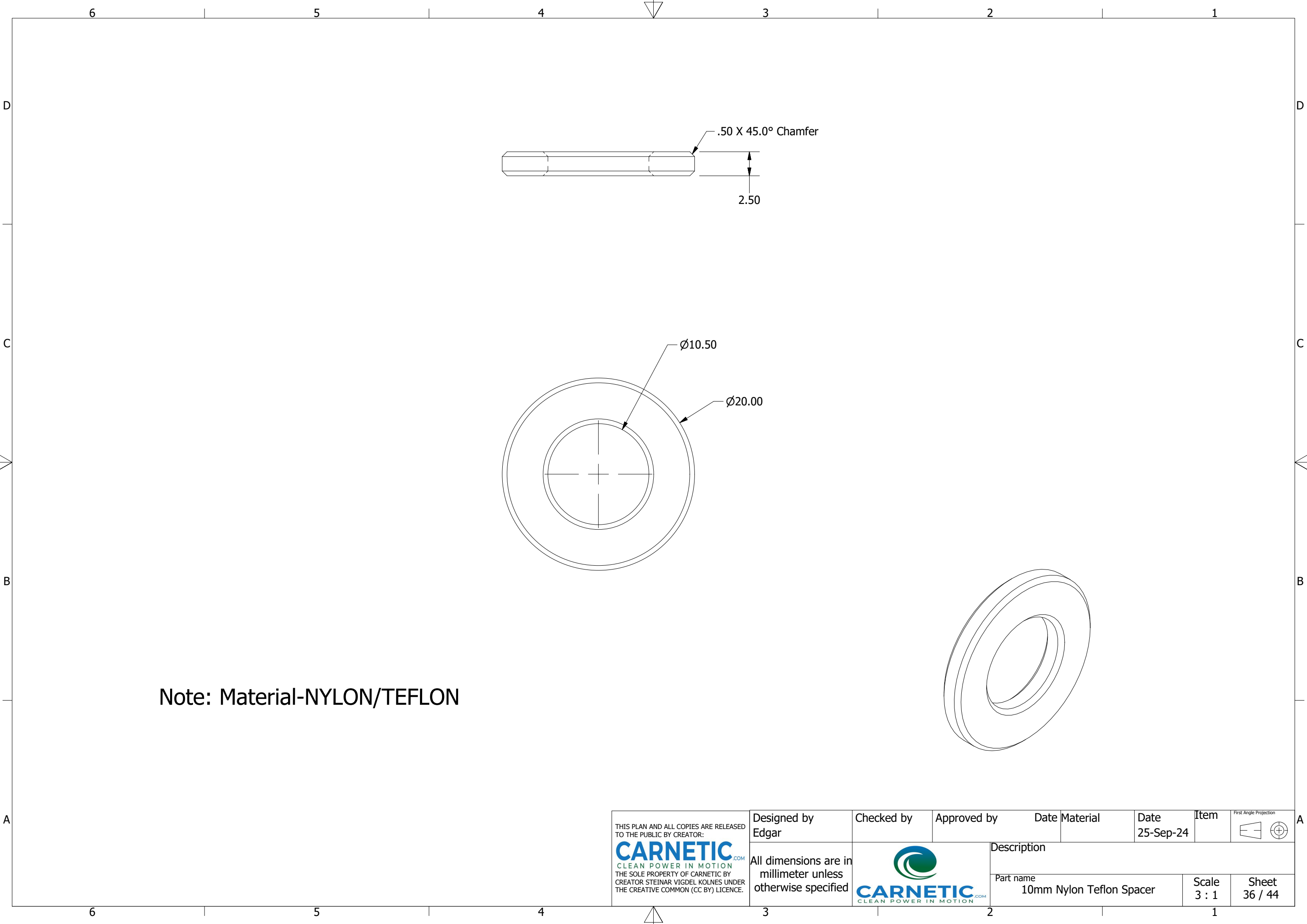
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	All dimensions are in millimeter unless otherwise specified	 CARNETIC.com CLEAN POWER IN MOTION	Description Base DiskB Ø500x10 and Circular Spacer						
			Part name WT-3Kw-01-4-1					Scale 1 : 4	Sheet 33 / 44



Note: Material-S316L

OPTIONAL REPLACEMENT PART

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	All dimensions are in millimeter unless otherwise specified	 CARNETIC.com CLEAN POWER IN MOTION	Description Corrugated Banana Spacer					
			Part name WT-3Kw-01-4-Rev1-1				Scale 1 : 1.5	Sheet 35 / 44



Note: Material-NYLON/TEFLON

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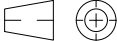
All dimensions are in
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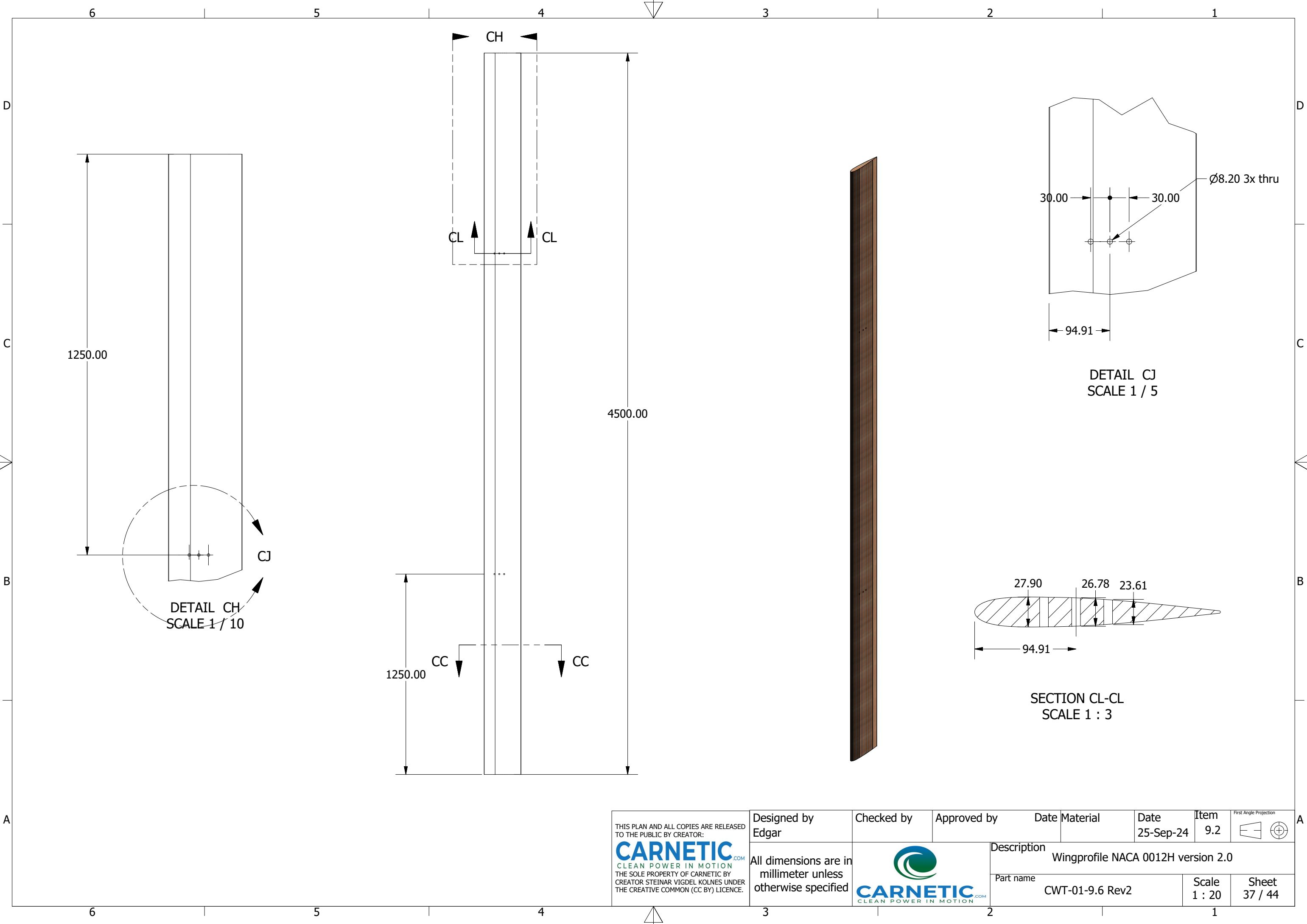
Checked by

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Date


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CLEAN POWER IN MOTION

Description	Material	Date	Item	First Angle Projection
Part name 10mm Nylon Teflon Spacer	Scale 3 : 1	Sheet 36 / 44	25-Sep-24	



DETAIL CH
SCALE 1 / 10

DETAIL CJ
SCALE 1 / 5

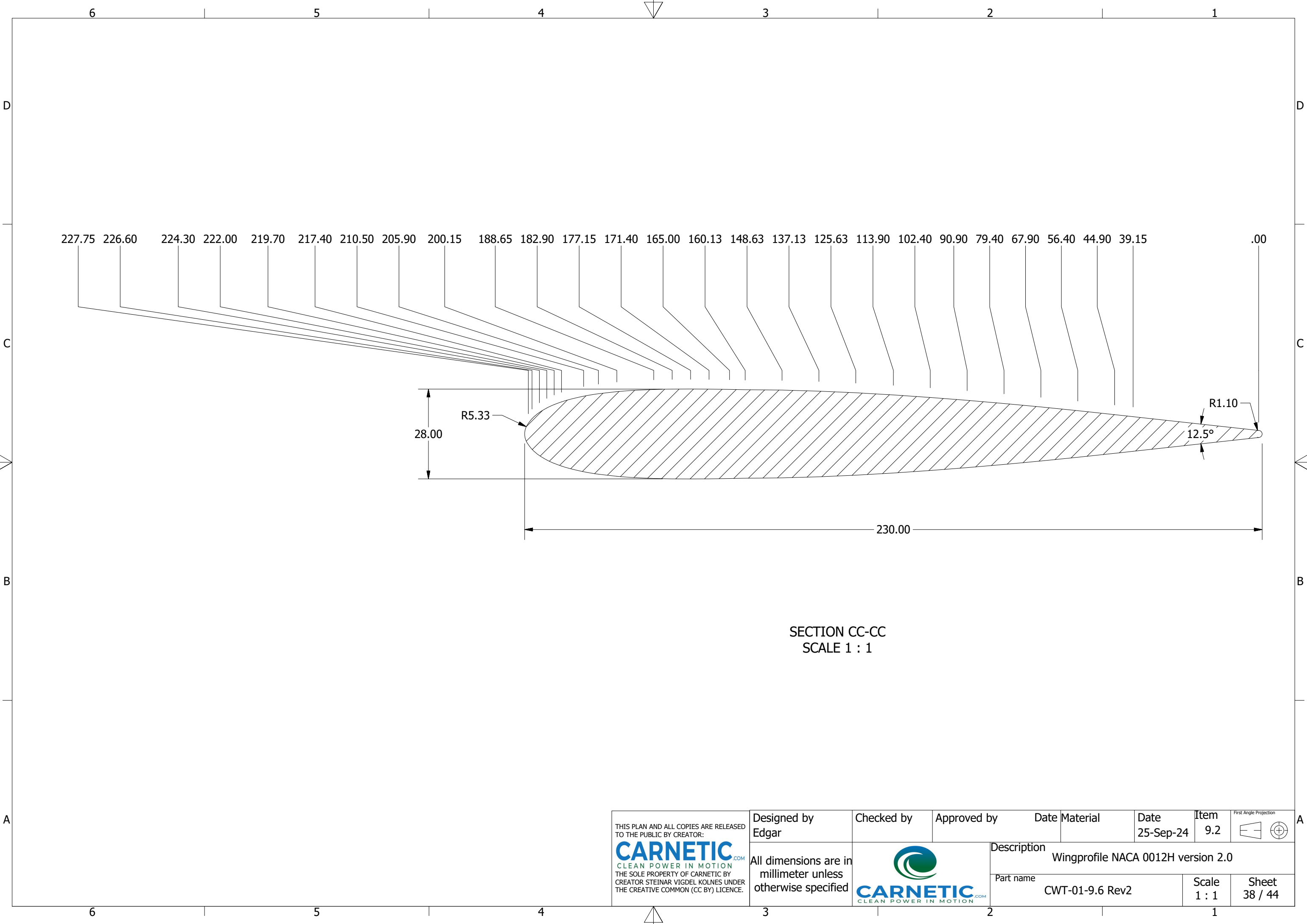
SECTION CL-CL
SCALE 1 : 3

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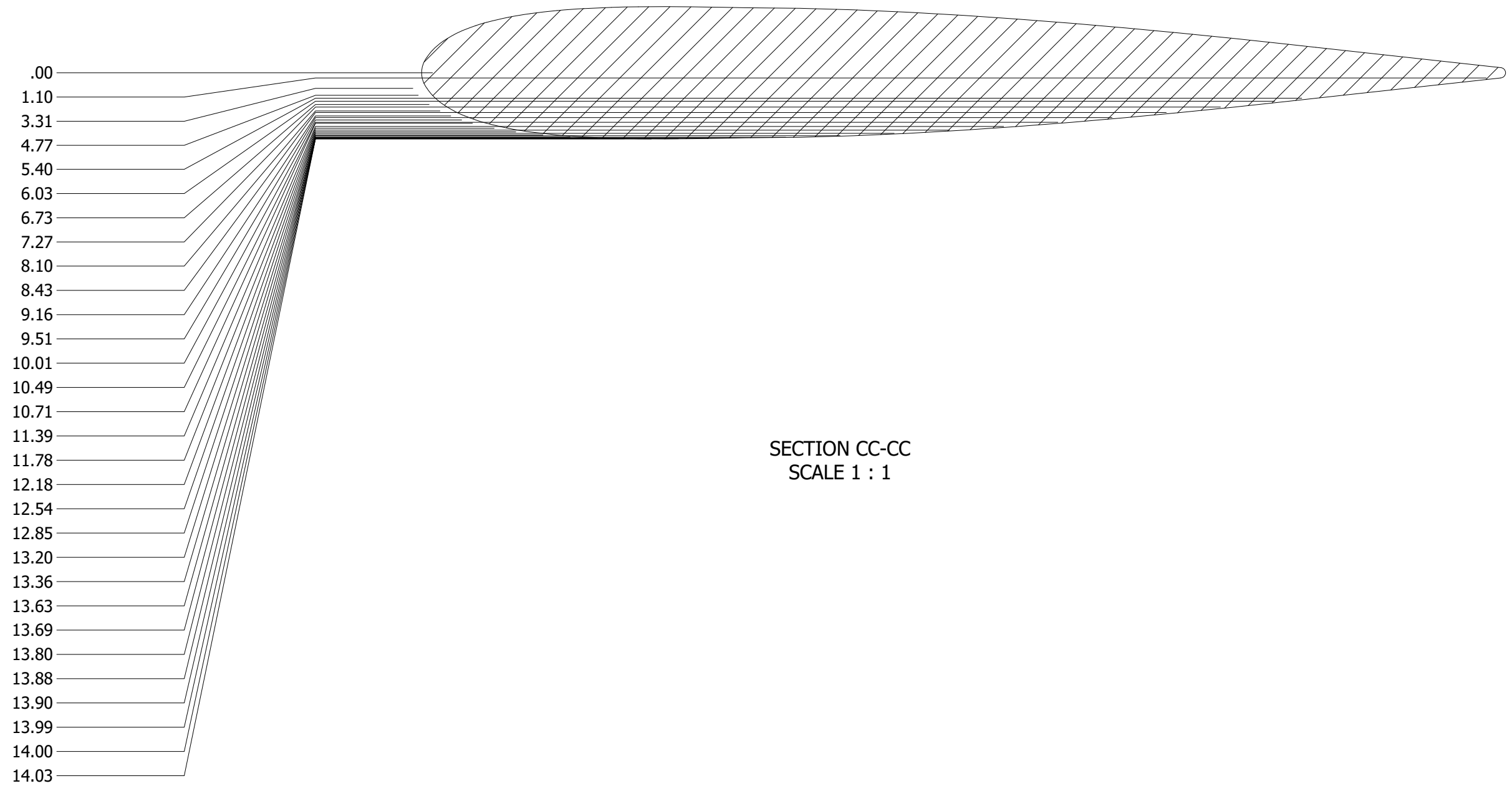
Checked by
Approved by
Date
Material
Date
Item
First Angle Projection
CARNETIC.COM
CLEAN POWER IN MOTION

Description	Wingprofile NACA 0012H version 2.0
Part name	CWT-01-9.6 Rev2
Scale	1 : 20
Sheet	37 / 44



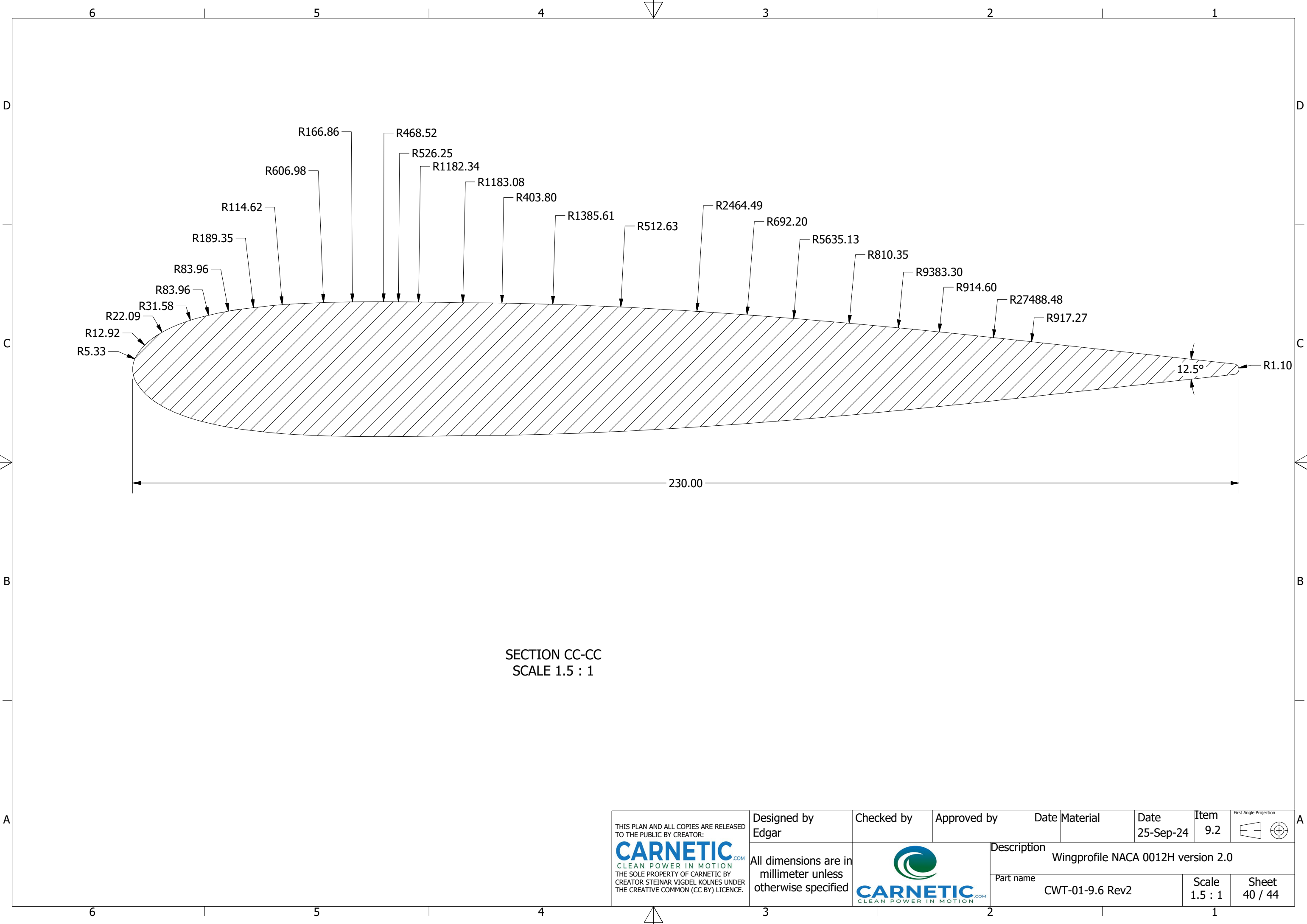
SECTION CC-CC
SCALE 1 : 1

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	All dimensions are in millimeter unless otherwise specified	 CARNETIC.com CLEAN POWER IN MOTION	Description Wingprofile NACA 0012H version 2.0							
			Part name CWT-01-9.6 Rev2	Scale 1 : 1	Sheet 38 / 44					



SECTION CC-CC
SCALE 1 : 1

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	All dimensions are in millimeter unless otherwise specified	CARNETIC CLEAN POWER IN MOTION	Description Wingprofile NACA 0012H version 2.0							
			Part name CWT-01-9.6 Rev2			Scale 1 : 1	Sheet 39 / 44			



SECTION CC-CC
SCALE 1.5 : 1

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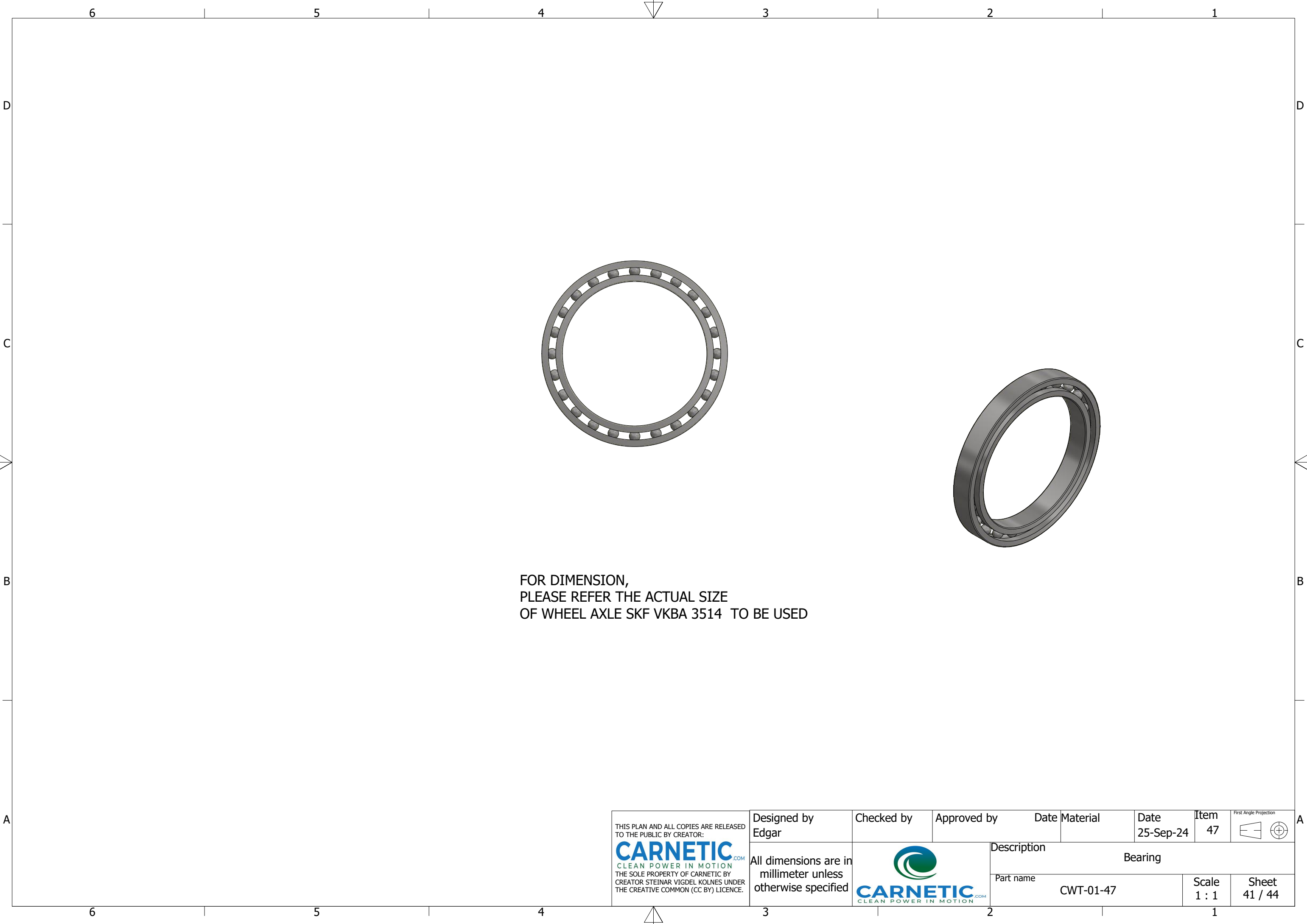
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 CARNETIC CLEAN POWER IN MOTION

by	Date	Material	Date	Item	First Angle Projection
			25-Sep-24	9.2	
Description					
Wingprofile NACA 0012H version 2.0					
Part name				Scale	Sheet
CWT-01-9.6 Rev2				1.5 : 1	40 / 44



FOR DIMENSION,
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OF WHEEL AXLE SKF VKBA 3514 TO BE USED

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25-Sep-24

Item
47

First Angle Projection

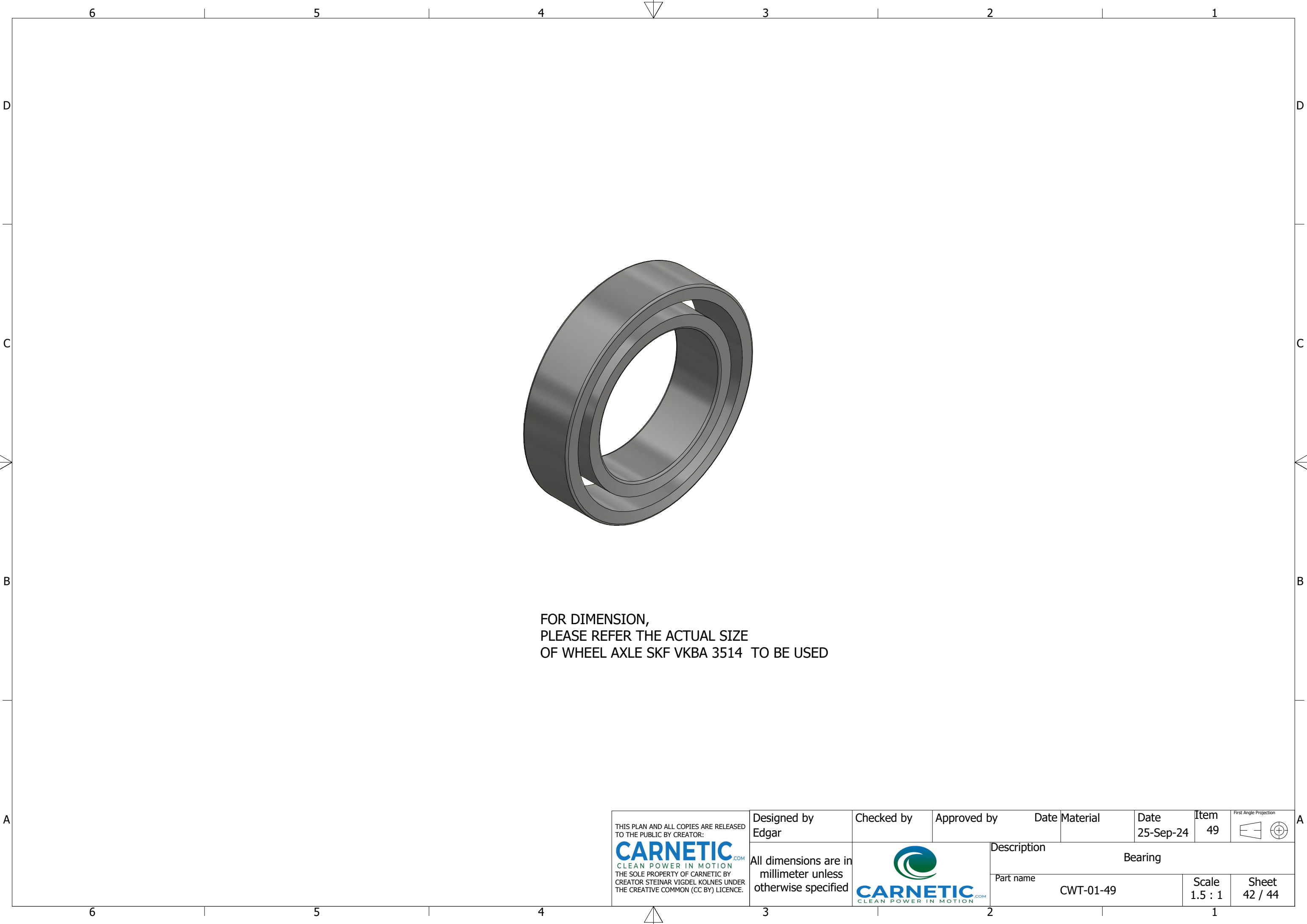
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CLEAN POWER IN MOTION

Description
Bearing

Part name
CWT-01-47

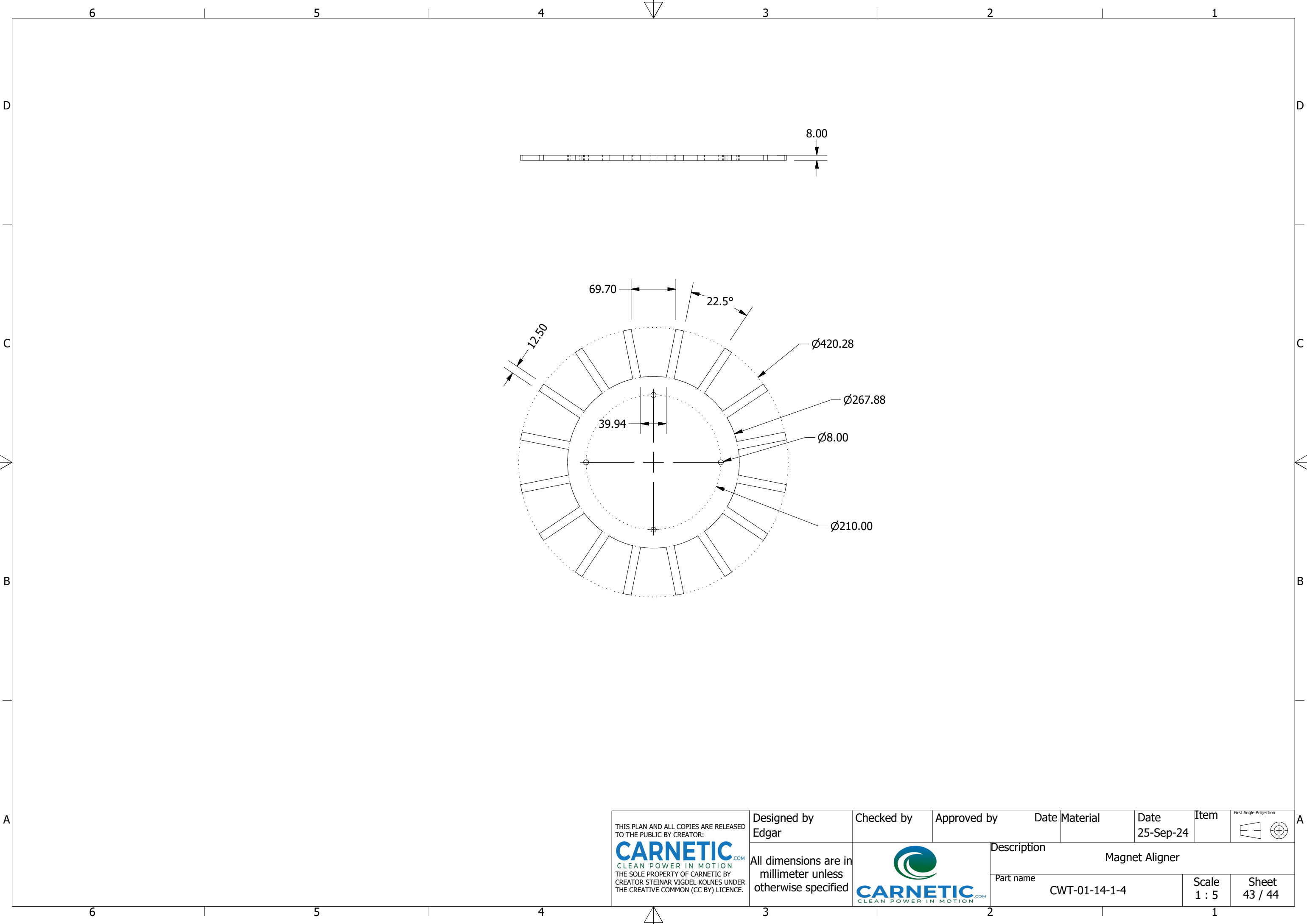
Scale
1 : 1

Sheet
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	All dimensions are in millimeter unless otherwise specified	CARNETIC.com CLEAN POWER IN MOTION	Description Bearing					
			Part name CWT-01-49				Scale 1.5 : 1	Sheet 42 / 44



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Date
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Item

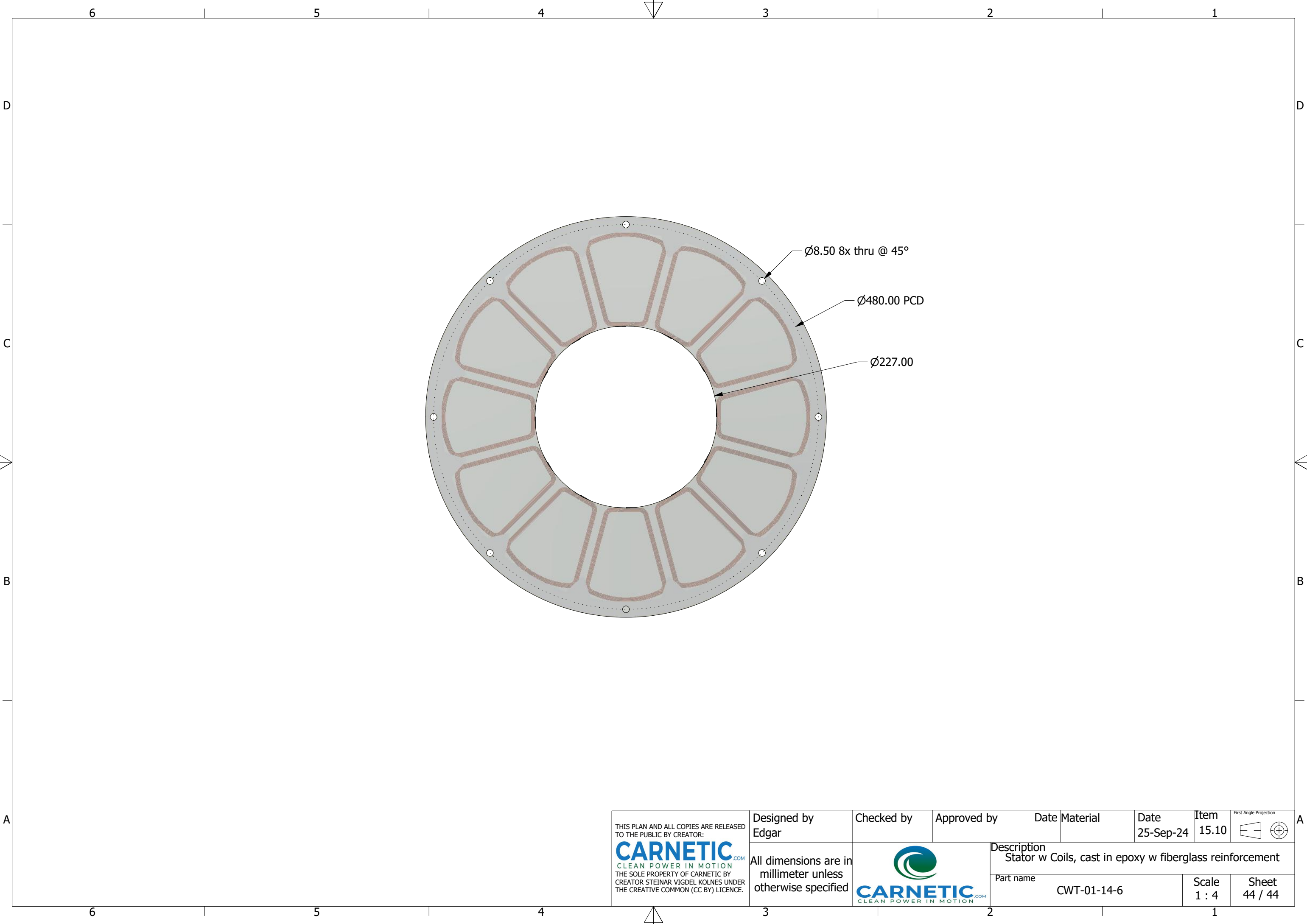
First Angle Projection

Description
Magnet Aligner

Part name
CWT-01-14-1-4

Scale
1 : 5

Sheet
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Day	Date	Material	Date	Item	First Angle Projection
			25-Sep-24	15.10	
Description Stator w Coils, cast in epoxy w fiberglass reinforcement					
Part name CWT-01-14-6				Scale 1 : 4	Sheet 44 / 44