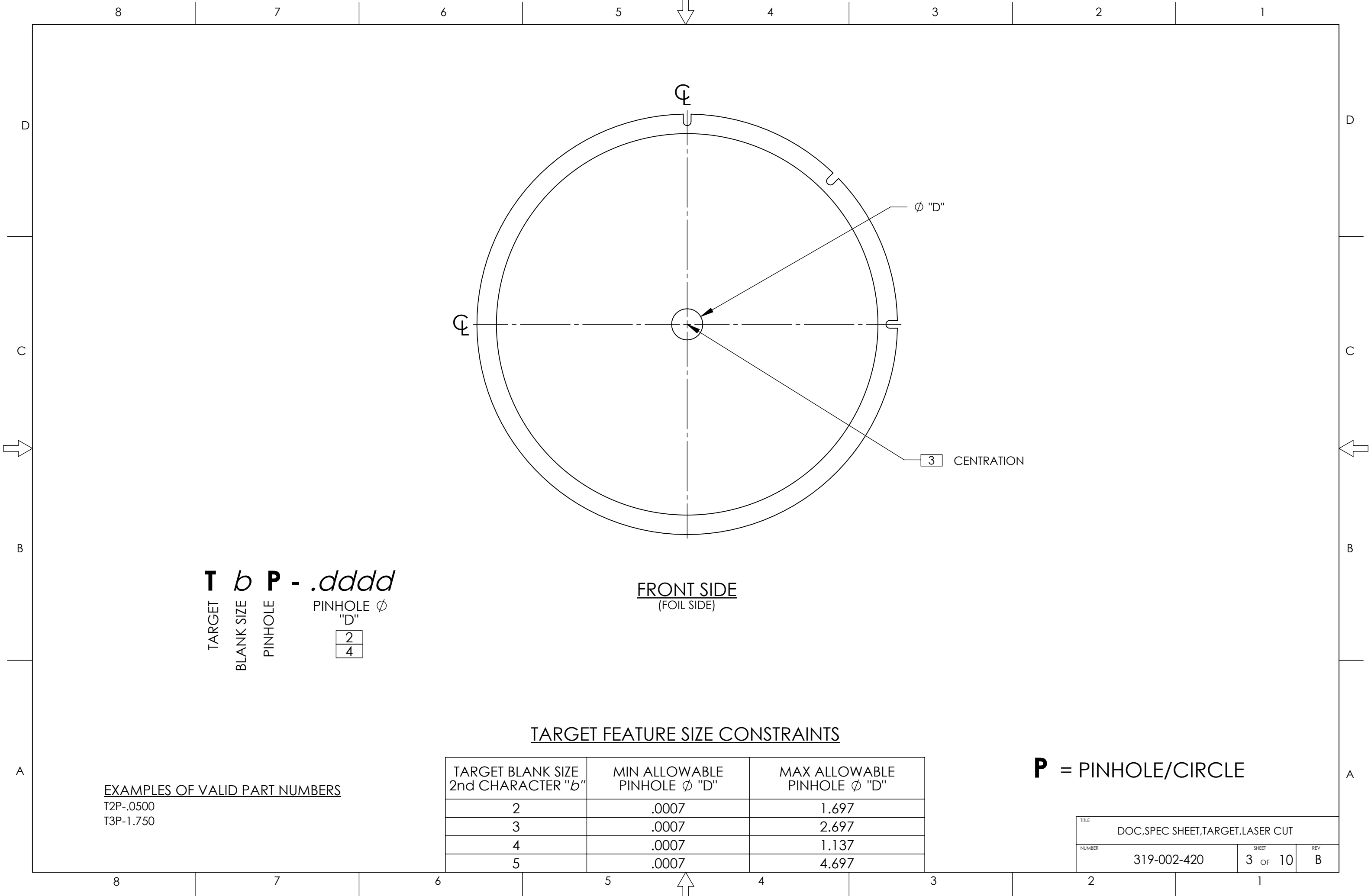


TARGET BLANK SELECTION

TARGET BLANK SIZE 2nd CHARACTER "b"	REF ONLY: FOR SBIR TARGET WHEELS	REF ONLY: OUTER DIAMETER	REF ONLY: CLEAR APERTURE	REF ONLY: EMISSIVE SURFACE AREA (SQUARE INCHES)
2	312i	ϕ 2.186	ϕ 2.000	3.141
3	313i, 316i, 317i	ϕ 3.373	ϕ 3.000	7.069
4	314 (LEGACY)	ϕ 1.623	ϕ 1.438	1.624
5	315i	ϕ 5.373	ϕ 5.000	19.635

TARGET BLANK

TITLE DOC,SPEC SHEET,TARGET,LASER CUT		
NUMBER 319-002-420	SHEET 2 OF 10	REV B



T TARGET
b BLANK SIZE
P PINHOLE
- .dddd PINHOLE ϕ "D"

2
4

FRONT SIDE
(FOIL SIDE)

TARGET FEATURE SIZE CONSTRAINTS

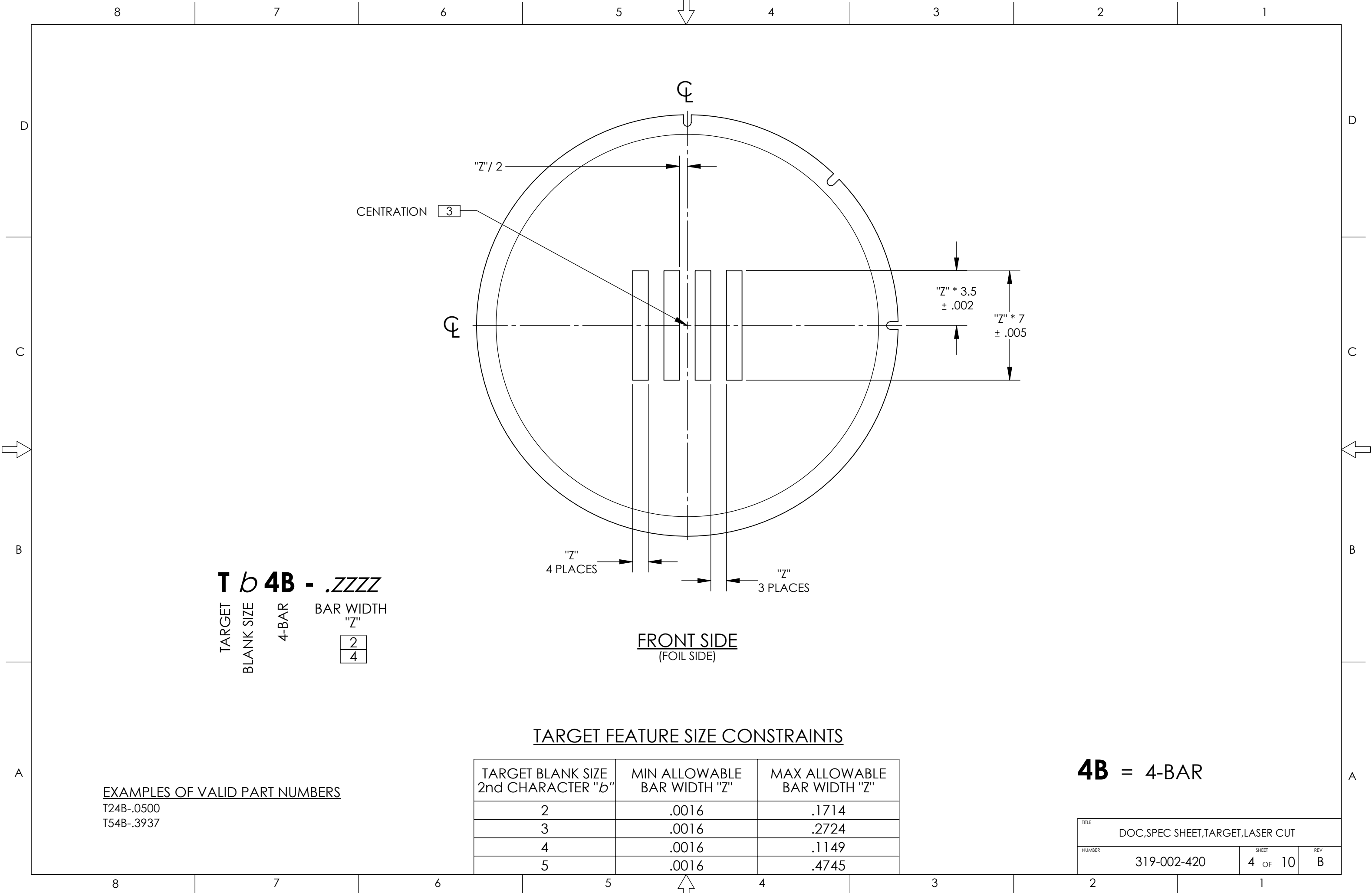
TARGET BLANK SIZE 2nd CHARACTER "b"	MIN ALLOWABLE PINHOLE ϕ "D"	MAX ALLOWABLE PINHOLE ϕ "D"
2	.0007	1.697
3	.0007	2.697
4	.0007	1.137
5	.0007	4.697

EXAMPLES OF VALID PART NUMBERS

T2P-.0500
T3P-1.750

P = PINHOLE/CIRCLE

TITLE DOC,SPEC SHEET,TARGET,LASER CUT		
NUMBER 319-002-420	SHEET 3 OF 10	REV B



T b 4B - .zzzz

TARGET
BLANK SIZE
4-BAR
BAR WIDTH
"Z"

2
4

FRONT SIDE
(FOIL SIDE)

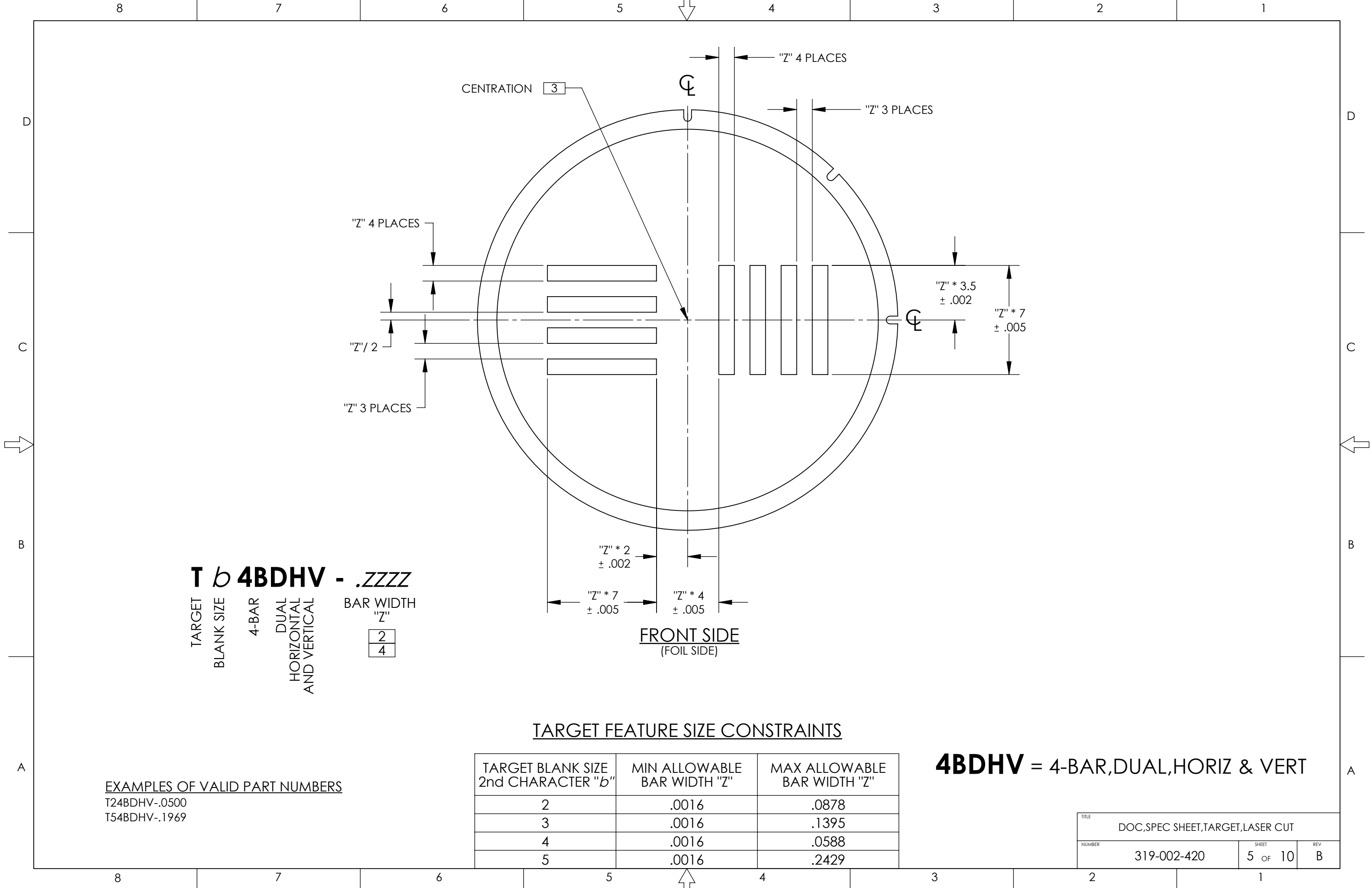
TARGET FEATURE SIZE CONSTRAINTS

TARGET BLANK SIZE 2nd CHARACTER "b"	MIN ALLOWABLE BAR WIDTH "Z"	MAX ALLOWABLE BAR WIDTH "Z"
2	.0016	.1714
3	.0016	.2724
4	.0016	.1149
5	.0016	.4745

EXAMPLES OF VALID PART NUMBERS
T24B-.0500
T54B-.3937

4B = 4-BAR

TITLE DOC,SPEC SHEET,TARGET,LASER CUT		
NUMBER 319-002-420	SHEET 4 OF 10	REV B



T b 4BDHV - .ZZZZ
 TARGET
 BLANK SIZE
 4-BAR
 DUAL
 HORIZONTAL
 AND VERTICAL
 BAR WIDTH
 "Z"

2
4

FRONT SIDE
(FOIL SIDE)

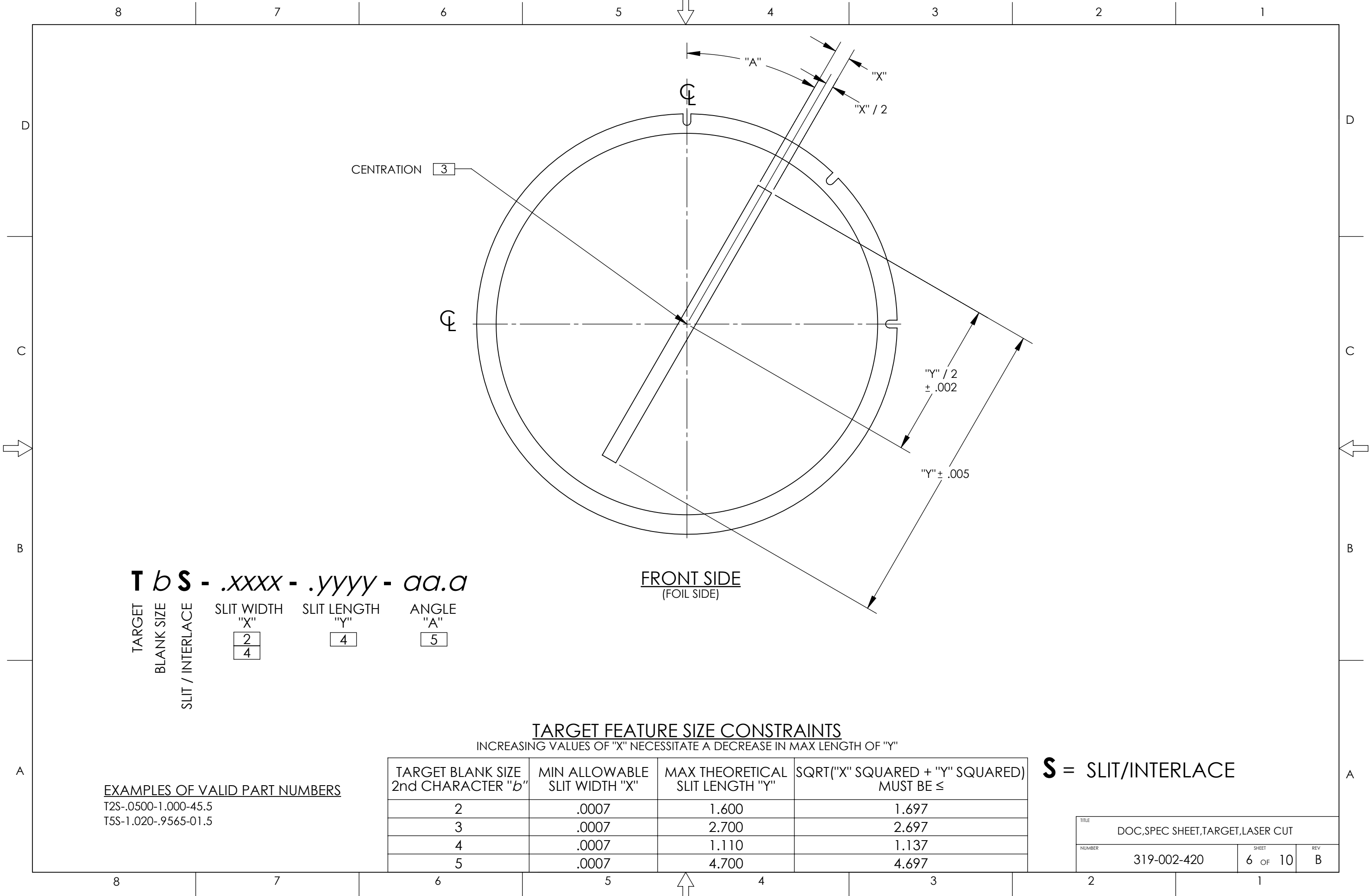
TARGET FEATURE SIZE CONSTRAINTS

TARGET BLANK SIZE 2nd CHARACTER "b"	MIN ALLOWABLE BAR WIDTH "Z"	MAX ALLOWABLE BAR WIDTH "Z"
2	.0016	.0878
3	.0016	.1395
4	.0016	.0588
5	.0016	.2429

4BDHV = 4-BAR,DUAL,HORIZ & VERT

EXAMPLES OF VALID PART NUMBERS
 T24BDHV-.0500
 T54BDHV-.1969

TITLE DOC,SPEC SHEET,TARGET,LASER CUT		
NUMBER 319-002-420	SHEET 5 OF 10	REV B



T b S - .xxxx - .yyyy - aa.a

TARGET
BLANK SIZE
SLIT / INTERLACE

SLIT WIDTH
"X"

2
4

SLIT LENGTH
"Y"

4

ANGLE
"A"

5

FRONT SIDE
(FOIL SIDE)

TARGET FEATURE SIZE CONSTRAINTS

INCREASING VALUES OF "X" NECESSITATE A DECREASE IN MAX LENGTH OF "Y"

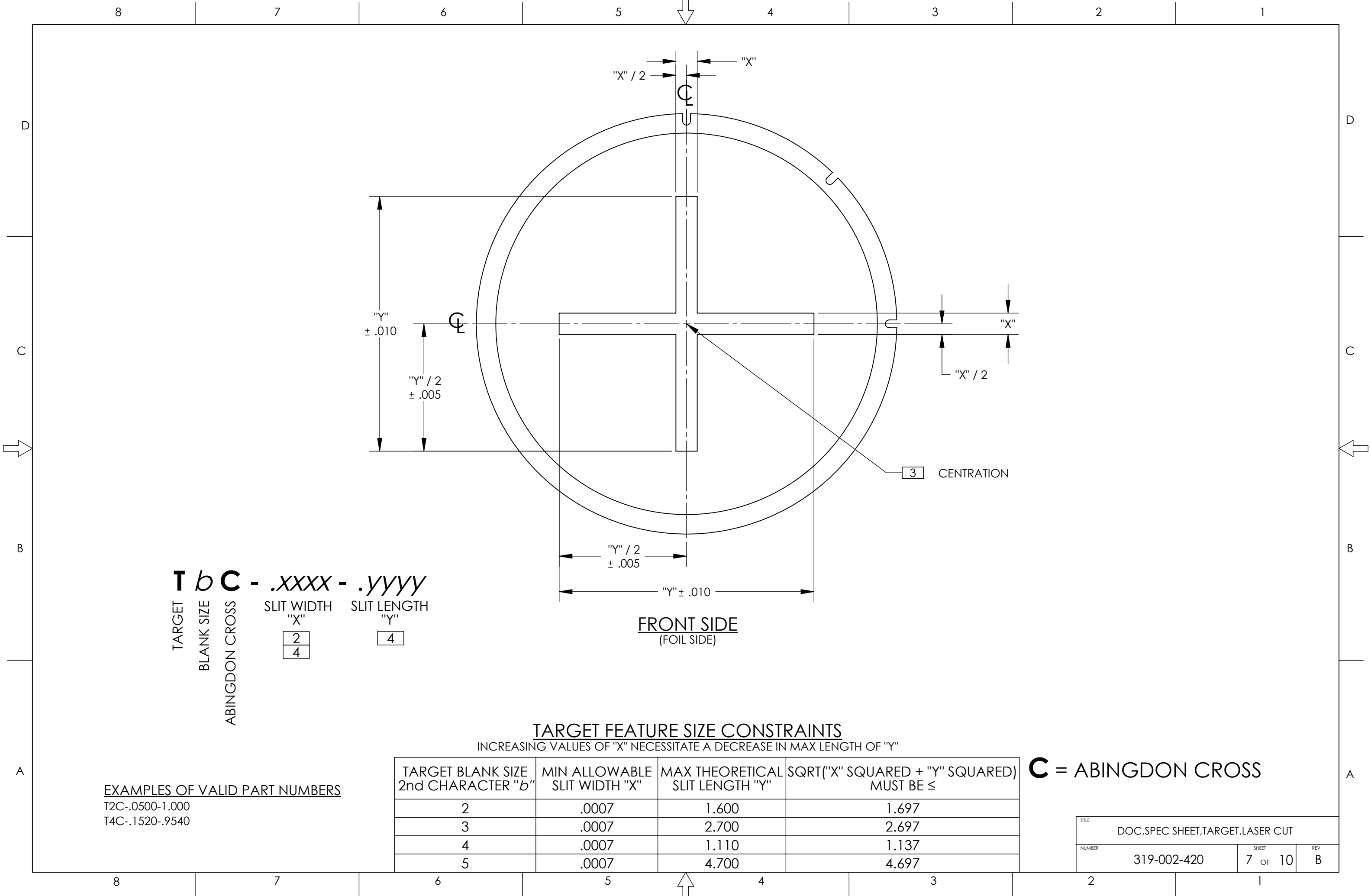
TARGET BLANK SIZE 2nd CHARACTER "b"	MIN ALLOWABLE SLIT WIDTH "X"	MAX THEORETICAL SLIT LENGTH "Y"	SQRT("X" SQUARED + "Y" SQUARED) MUST BE ≤
2	.0007	1.600	1.697
3	.0007	2.700	2.697
4	.0007	1.110	1.137
5	.0007	4.700	4.697

S = SLIT/INTERLACE

EXAMPLES OF VALID PART NUMBERS

T2S-.0500-1.000-45.5
T5S-1.020-.9565-01.5

TITLE DOC,SPEC SHEET,TARGET,LASER CUT		
NUMBER 319-002-420	SHEET 6 OF 10	REV B



T b C - .xxxx - .yyyy
 TARGET BLANK SIZE ABINGDON CROSS
 SLIT WIDTH "X" SLIT LENGTH "Y"
 2 4
 4

FRONT SIDE
 (FOIL SIDE)

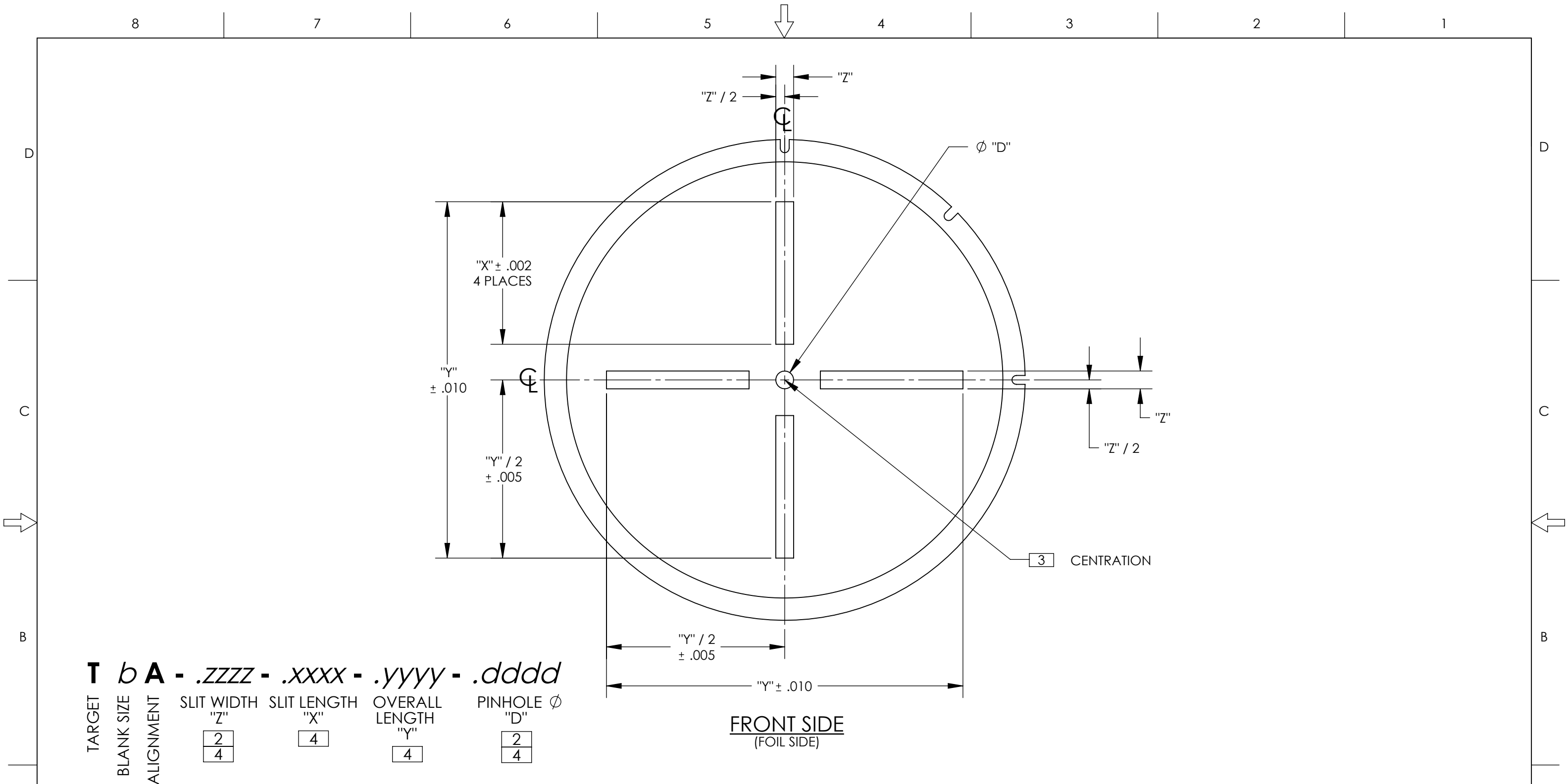
TARGET FEATURE SIZE CONSTRAINTS
 INCREASING VALUES OF "X" NECESSITATE A DECREASE IN MAX LENGTH OF "Y"

TARGET BLANK SIZE 2nd CHARACTER "b"	MIN ALLOWABLE SLIT WIDTH "X"	MAX THEORETICAL SLIT LENGTH "Y"	SQRT("X" SQUARED + "Y" SQUARED) MUST BE ≤
2	.0007	1.600	1.697
3	.0007	2.700	2.697
4	.0007	1.110	1.137
5	.0007	4.700	4.697

C = ABINGDON CROSS

EXAMPLES OF VALID PART NUMBERS
 T2C-.0500-1.000
 T4C-.1520-.9540

TITLE DOC,SPEC SHEET,TARGET,LASER CUT		
NUMBER 319-002-420	SHEET 7 OF 10	REV B



T b A - .zzzz - .xxxx - .yyyy - .dddd

TARGET BLANK SIZE ALIGNMENT SLIT WIDTH "Z" SLIT LENGTH "X" OVERALL LENGTH "Y" PINHOLE ϕ "D"

$\frac{2}{4}$ $\frac{4}{4}$ $\frac{2}{4}$

TARGET FEATURE SIZE CONSTRAINTS

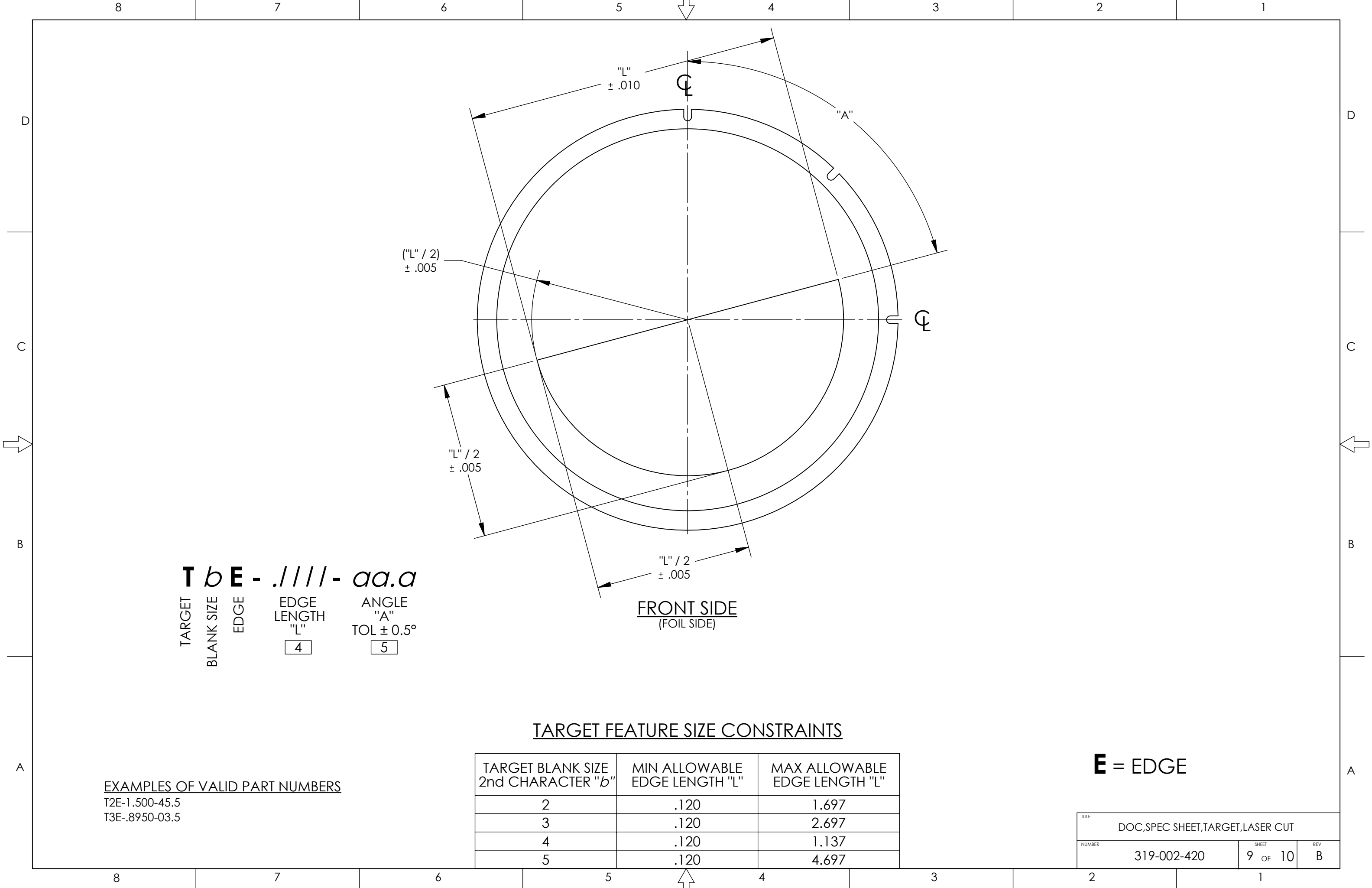
INCREASING VALUES OF "X" NECESSITATE A DECREASE IN MAX LENGTH OF "Y"

TARGET BLANK SIZE 2nd CHARACTER "b"	MIN ALLOWABLE SLIT WIDTH "Z"	MIN ALLOWABLE PINHOLE ϕ "D"	MAX THEORETICAL LENGTH "Y"	SQRT("Z" SQUARED + "Y" SQUARED) MUST BE \leq	("Y" - "D" - (2 * "X")) / 2 MUST BE $>$
2	.0007	.0007	1.697	1.697	.0016
3	.0007	.0007	2.697	2.697	.0016
4	.0007	.0007	1.137	1.137	.0016
5	.0007	.0007	4.697	4.697	.0016

EXAMPLES OF VALID PART NUMBERS
 T2A-.0500-.0750-1.000-.1000
 T5A-.0015-1.050-3.111-.0525

A = ALIGNMENT

TITLE DOC,SPEC SHEET,TARGET,LASER CUT		
NUMBER 319-002-420	SHEET 8 OF 10	REV B



T b E - .llll - aa.a

TARGET
BLANK SIZE
EDGE

EDGE
LENGTH
"L"
4

ANGLE
"A"
TOL ± 0.5°
5

FRONT SIDE
(FOIL SIDE)

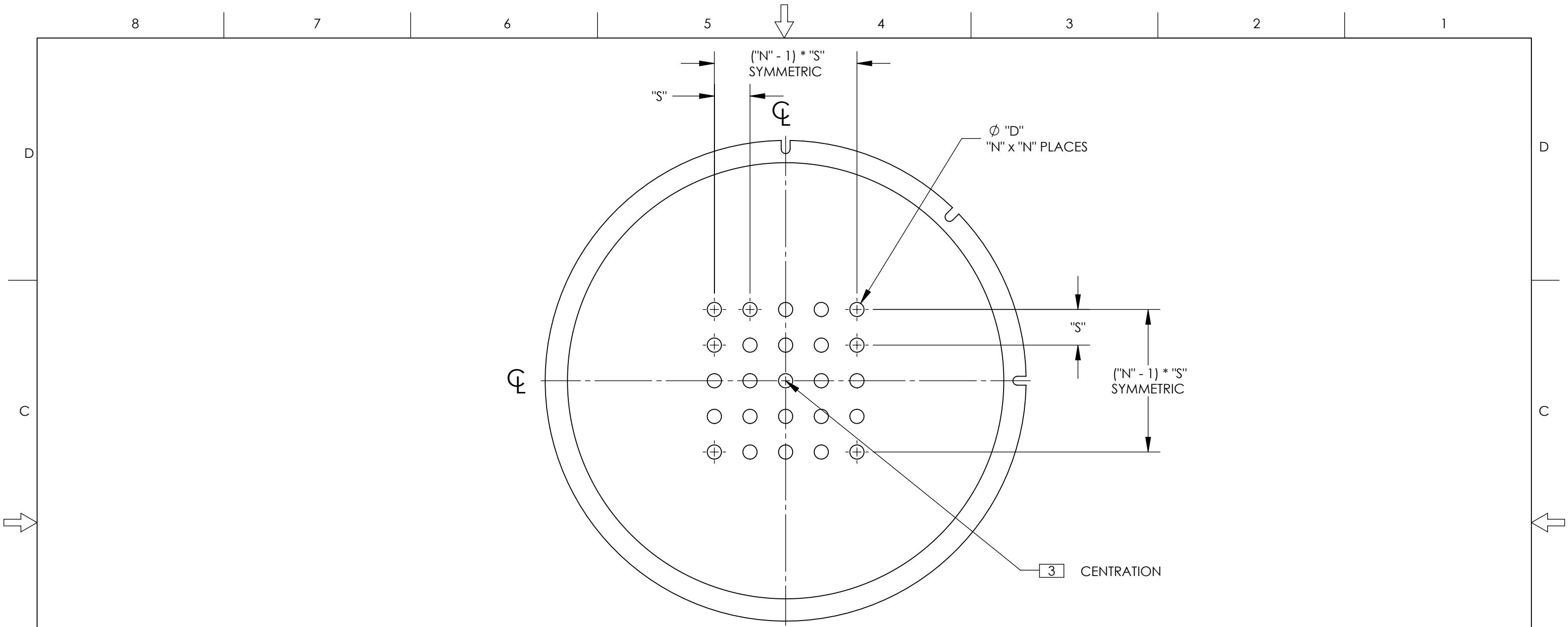
TARGET FEATURE SIZE CONSTRAINTS

TARGET BLANK SIZE 2nd CHARACTER "b"	MIN ALLOWABLE EDGE LENGTH "L"	MAX ALLOWABLE EDGE LENGTH "L"
2	.120	1.697
3	.120	2.697
4	.120	1.137
5	.120	4.697

EXAMPLES OF VALID PART NUMBERS
T2E-1.500-45.5
T3E-.8950-03.5

E = EDGE

TITLE DOC,SPEC SHEET,TARGET,LASER CUT		
NUMBER 319-002-420	SHEET 9 OF 10	REV B



T b D - n X n - . d d d d - . s s s s

TARGET
BLANK SIZE
DISTORTION
BY
PINHOLES PER ROW
BY
PINHOLES PER COLUMN
PINHOLE ϕ "D"
CENTER TO CENTER SPACING "S"

$\frac{2}{4}$

$\frac{2}{4}$

9

9

FRONT SIDE
(FOIL SIDE)

TARGET FEATURE SIZE CONSTRAINTS

TARGET BLANK SIZE 2nd CHARACTER "b"	MIN ALLOWABLE PINHOLE ϕ "D"	[((N - 1) * S) + "D"] * 1.414 MUST BE \leq	"S" - "D" MUST BE $>$
2	.0007	1.697	.0016
3	.0007	2.697	.0016
4	.0007	1.137	.0016
5	.0007	4.697	.0016

D = DISTORTION

EXAMPLES OF VALID PART NUMBERS
T2D-5X5-.0500-.2000
T4D-5X5-.0015-.0750

TITLE DOC,SPEC SHEET,TARGET,LASER CUT		
NUMBER 319-002-420	SHEET 10 OF 10	REV B