

4

3

2

1

D

D

C

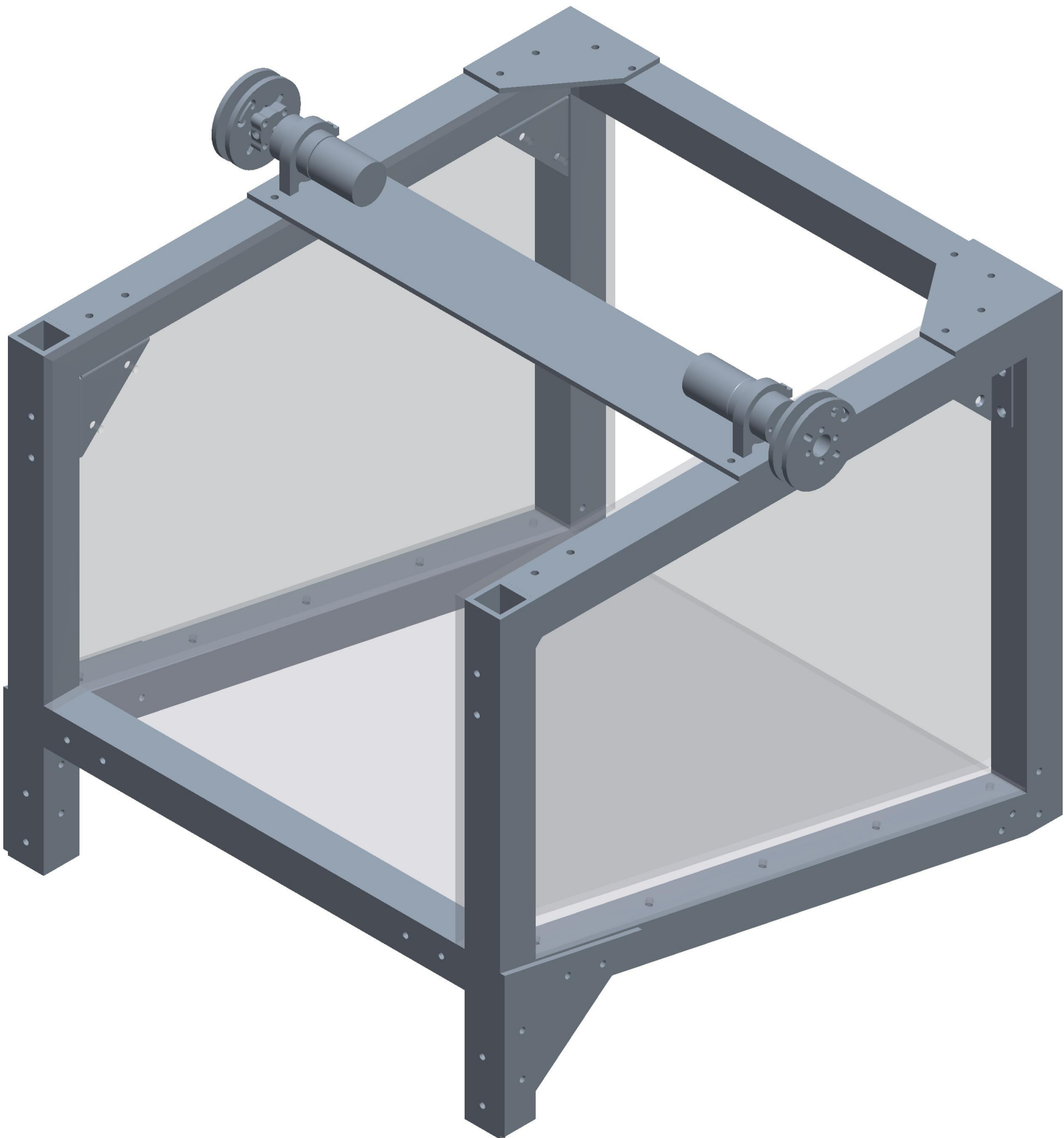
C

B

B

A

A



TOLERANCES DECIMALS XX = ±0.1 XXX = ±0.01 XXXX = ±0.001 XXXXX = ±0.0001		ANGLES X = ±5 XX = ±0.5 XXX = ±0.50		COLLEGE OF ENGINEERING UNIVERSITY OF NORTH DAKOTA	
DATE ISSUED: Feb-18-19		SIZE C		NEW_WINCH_FRAME	
DRAWN BY: Justin Gruneth		COURSE : SECTION :		DWG NO. WINCH_EXPLODED	
CHECKED BY:		SCALE 0.400		MATERIAL varies	
				SHEET 1 OF 2	

4

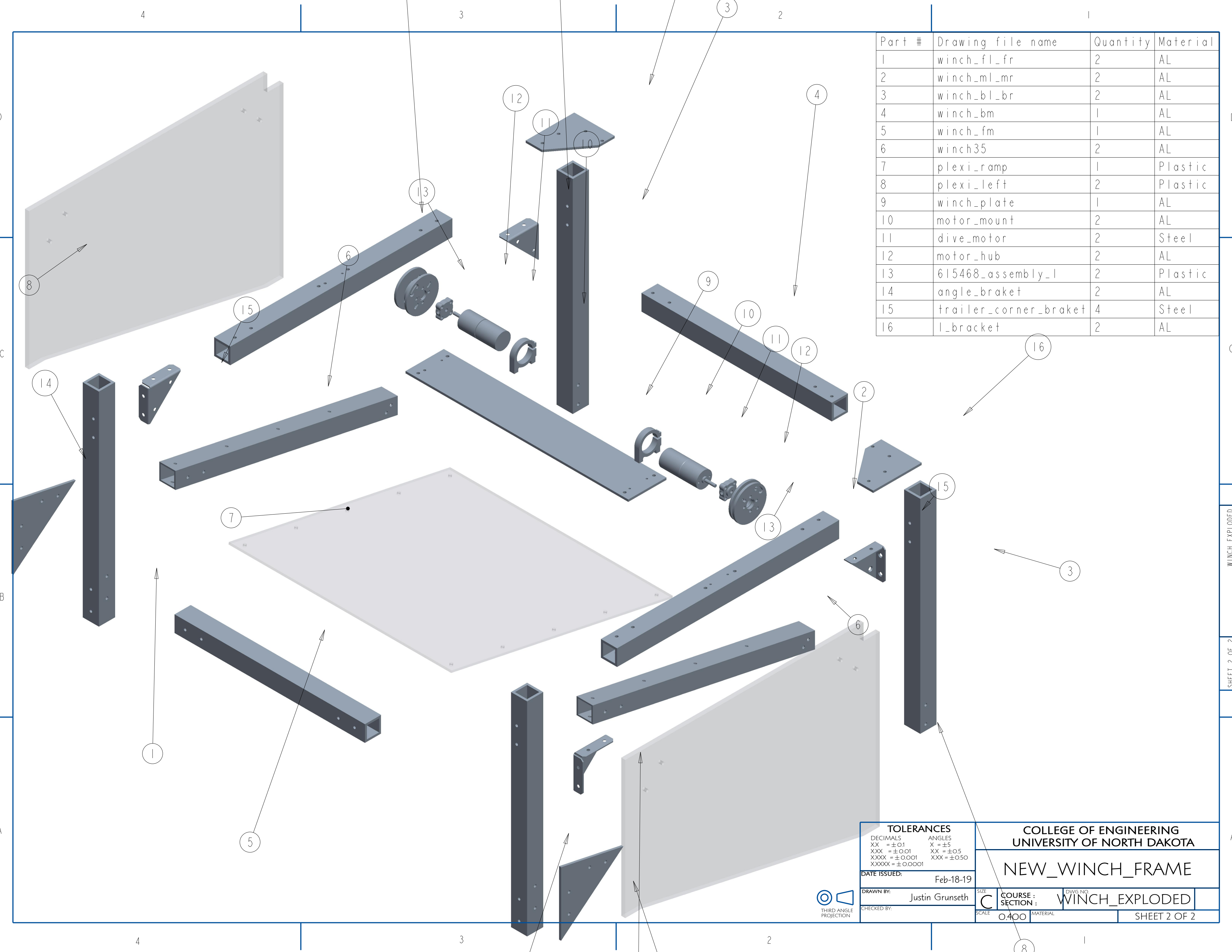
3

2

1

WINCH_EXPLODED

SHEET 1 OF 2



Part #	Drawing file name	Quantity	Material
1	winch_fl_fr	2	AL
2	winch_ml_mr	2	AL
3	winch_bl_br	2	AL
4	winch_bm	1	AL
5	winch_fm	1	AL
6	winch35	2	AL
7	plexi_ramp	1	Plastic
8	plexi_left	2	Plastic
9	winch_plate	1	AL
10	motor_mount	2	AL
11	dive_motor	2	Steel
12	motor_hub	2	AL
13	615468_assembly_1	2	Plastic
14	angle_braket	2	AL
15	trailer_corner_braket	4	Steel
16	l_bracket	2	AL

TOLERANCES

DECIMALS ANGLES

XX = ±0.1 X = ±5

XXX = ±0.01 XX = ±0.5

XXXX = ±0.001 XXX = ±0.50

XXXXX = ±0.0001

DATE ISSUED: Feb-18-19

DRAWN BY: Justin Grunseth

CHECKED BY:

THIRD ANGLE PROJECTION

SIZE

C

SCALE

0.400

COLLEGE OF ENGINEERING
UNIVERSITY OF NORTH DAKOTA

NEW_WINCH_FRAME

COURSE :
SECTION :

DWG NO.
WINCH_EXPLODED

MATERIAL

SHEET 2 OF 2

WINCH_EXPLODED

SHEET 2 OF 2