

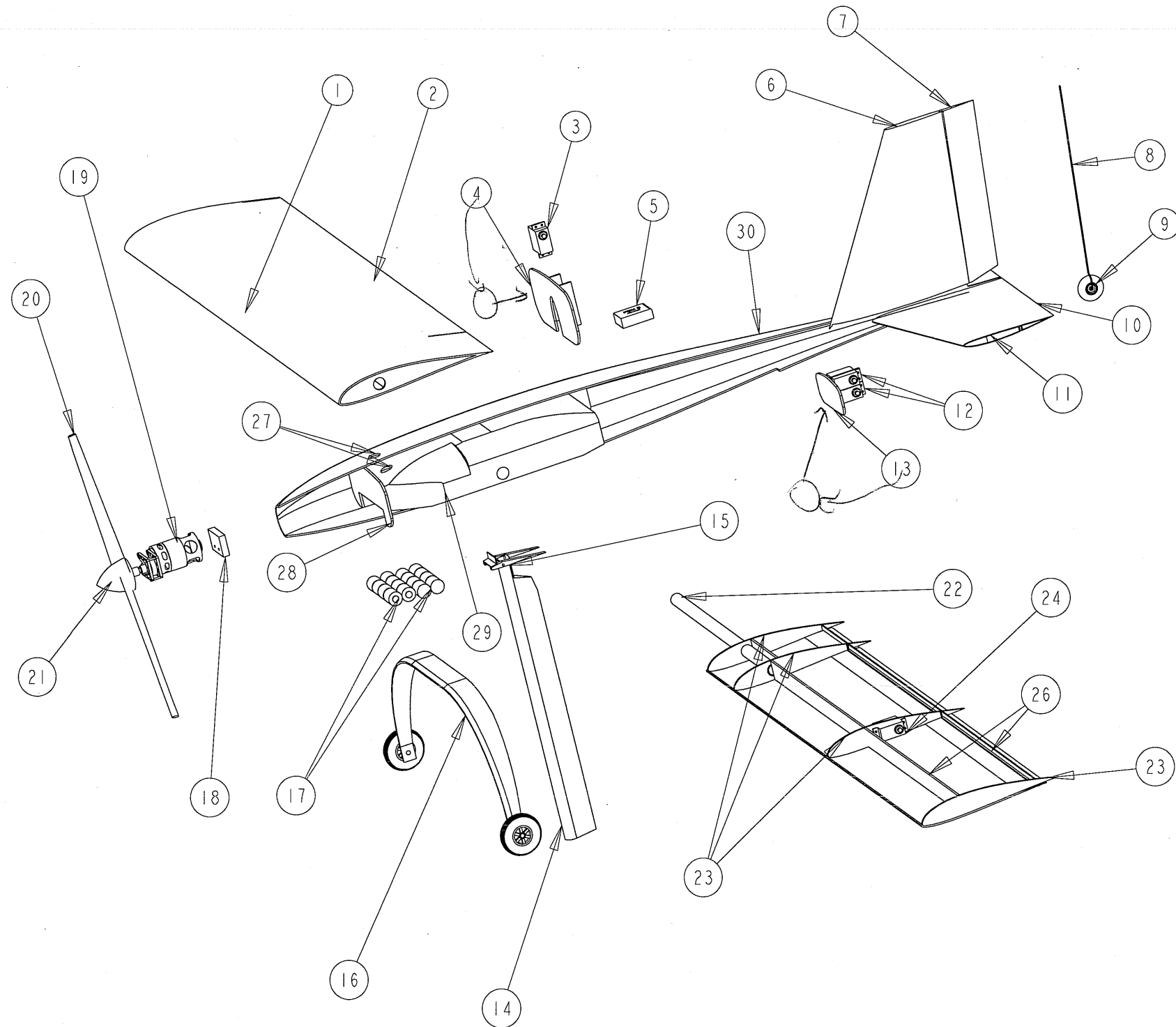
OKLAHOMA STATE UNIVERSITY  
SCHOOL OF  
MECHANICAL AND AEROSPACE ENGINEERING  
STILLWATER, OKLAHOMA

### OVERALL DIMENSIONS

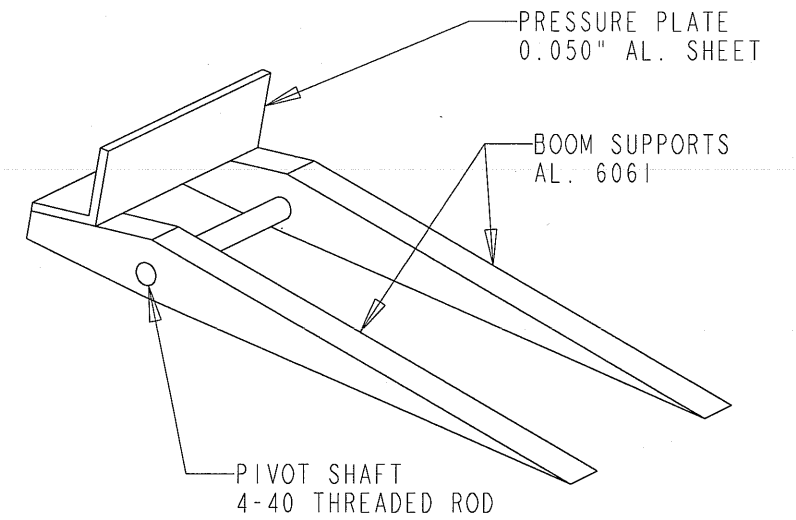
DIMENSIONS ARE IN INCHES

CHIEF ENGINEER A. SATTRE	FACULTY ADVISOR DR. A. ARENA
DRAWN BY K. TURNER	CONSTRUCTION SUPERVISOR J. DILL

SIZE B	SCALE 0.0625	SHEET 1 OF 5
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PAYLOAD VALVE DETAIL



1:	WING ASSEMBLY	
2:	SKIN-HINGED FLAPERON 36" x 2.125"	KEVLAR REINFORCED
3:	PAYLOAD CONTROL SERVO	JRPS3421SA
4:	MIDDLE BULKHEAD	0.125" LIGHT-PLY
5:	PCM RECEIVER	NER-649S
6:	VERTICAL STABILIZER	
7:	RUDDER	
8:	RUDDER / TAILWHEEL CONTROL SHAFT	
9:	TAIL WHEEL	
10:	SKIN-HINGED ELEVATOR 19.2" x 2.125"	KEVLAR REINFORCED
11:	HORIZONTAL STABILIZER CLOSE-OUT RIB	0.125" Balsa
12:	EMPENNAGE CONTROL SERVOS	JRPS3421SA
13:	REARWARD BULKHEAD	0.125" LIGHT-PLY
14:	PAYLOAD EVACUATION BOOM	
15:	TANK PINCH-VALVE MECHANISM	
16:	MAIN LANDING GEAR ASSEMBLY	2.5" WHEEL
17:	PROPULSION BATTERY PACK x2	CP-1300SCR x8
18:	MOTOR SPEED CONTROLLER	
19:	MOTOR / GEARBOX ASSEMBLY	GRAUPNER 3300-6
20:	PROPELLER	
21:	2" NOM. SPINNER	
22:	MAIN CARRY-THROUGH SPAR	
23:	WING RIB x3	0.125" Balsa
24:	CLOSE-OUT RIB	0.125" Balsa
25:	FLAPERON CONTROL SERVO	JRPS3421SA
26:	WING SHEAR WEB x3	
27:	PAYLOAD EMBARKING PORTS	
28:	FORWARD BULKHEAD	
29:	PAYLOAD RESERVOIR	0.125" LIGHT-PLY
30:	MONOCOQUE FUSELAGE	

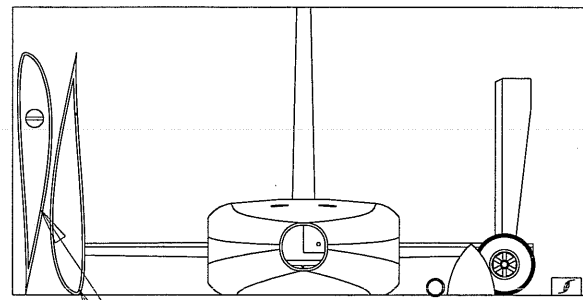


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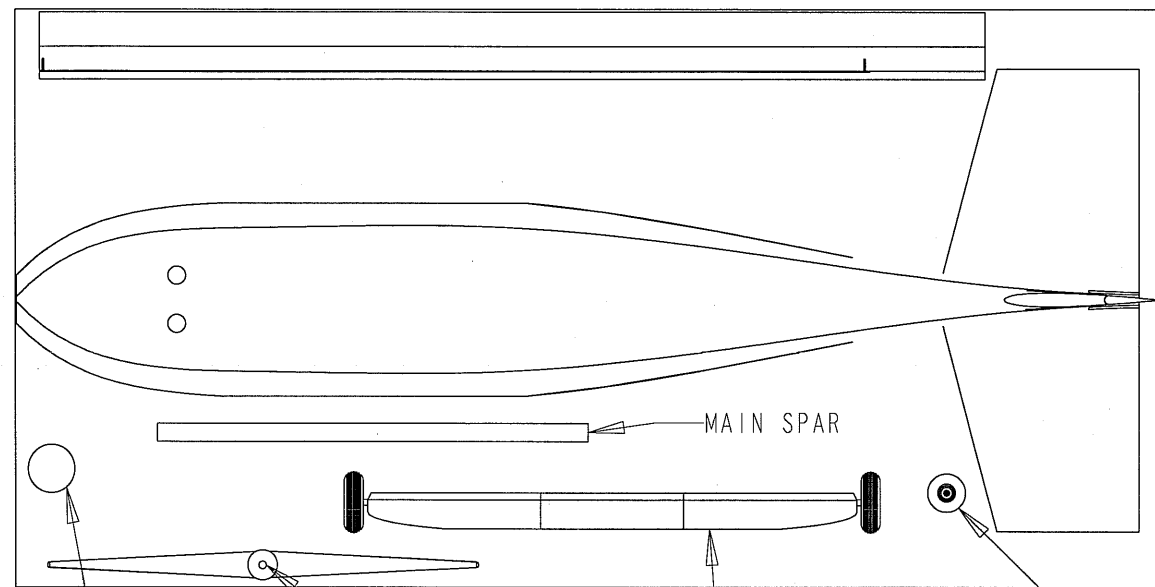
EXPLODED VIEW

DIMENSIONS ARE IN INCHES	
CHIEF ENGINEER A. SATTRE	FACULTY ADVISOR DR. A. ARENA
DRAWN BY K. TURNER	CONSTRUCTION SUPERVISOR J. DILL

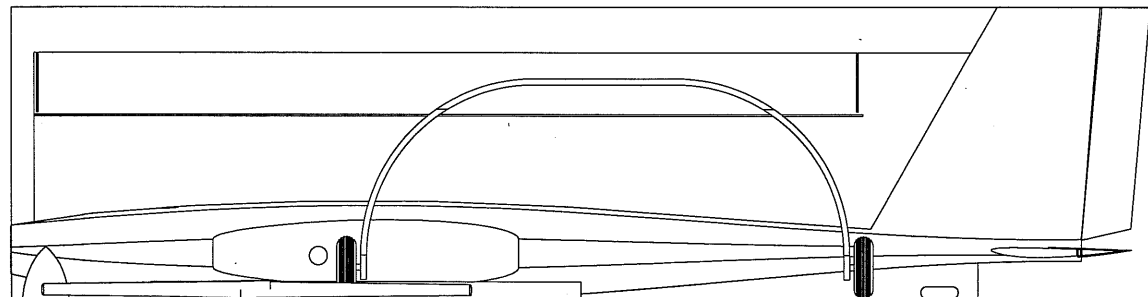
SIZE B	SCALE 0.125	SHEET 2 OF 5
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RIGHT WING ASSEMBLY  
LEFT WING ASSEMBLY



SPINNER  
PROPELLER  
MAIN SPAR  
MAIN LANDING GEAR ASSEMBLY  
TAIL WHEEL



OKLAHOMA STATE  
BLACK TEAM 2004

OKLAHOMA STATE UNIVERSITY  
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STILLWATER, OKLAHOMA

STOWED CONFIGURATION

DIMENSIONS ARE IN INCHES

CHIEF ENGINEER  
A. SATTRE

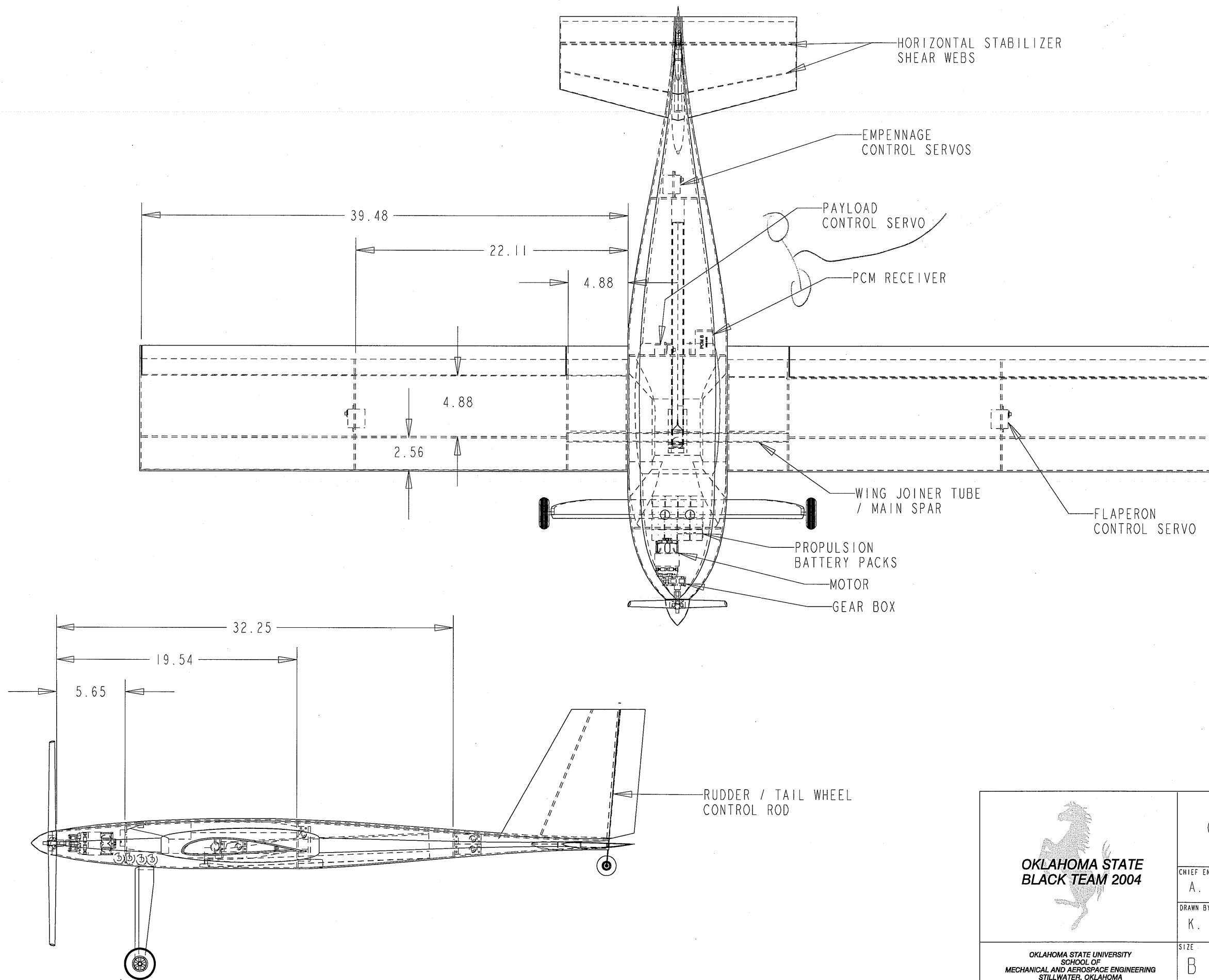
FACULTY ADVISOR  
DR. A. ARENA


DRAWN BY  
K. TURNER

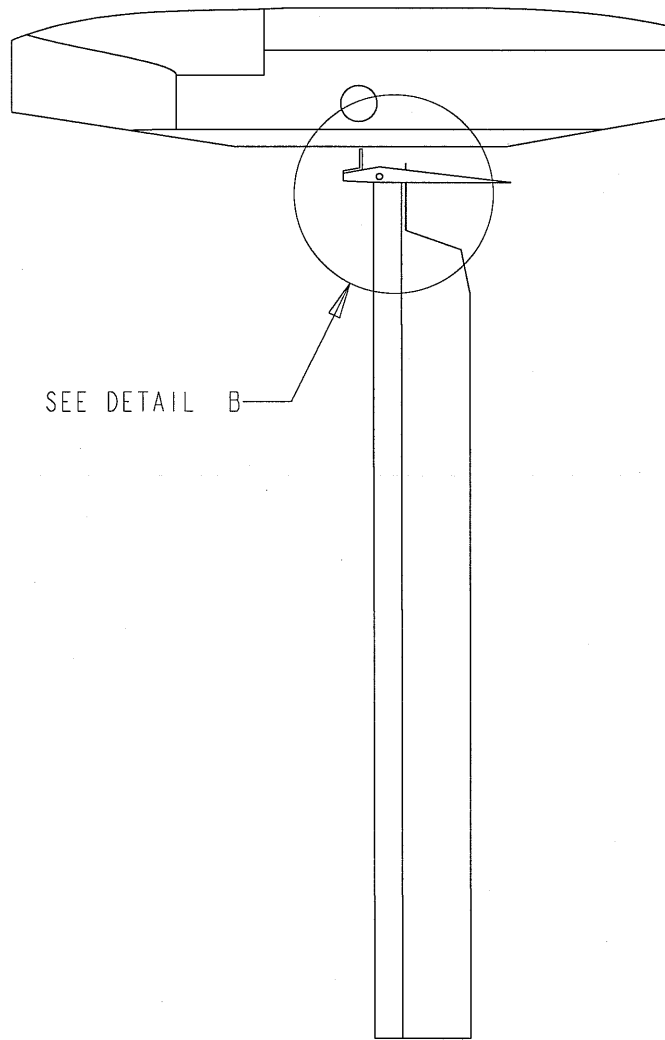
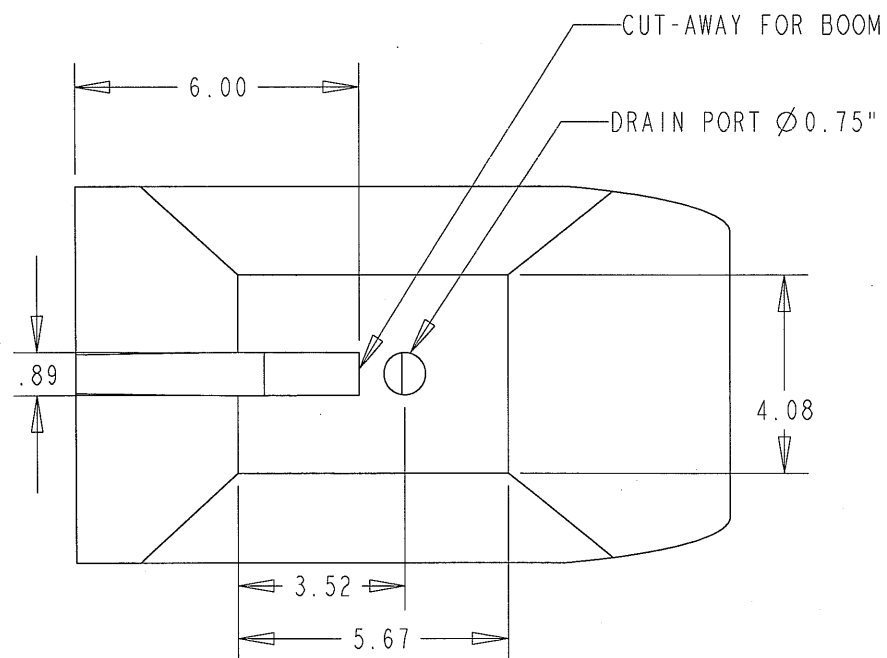
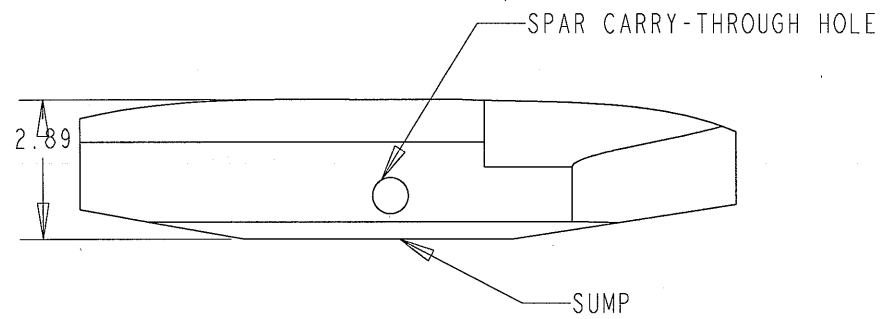
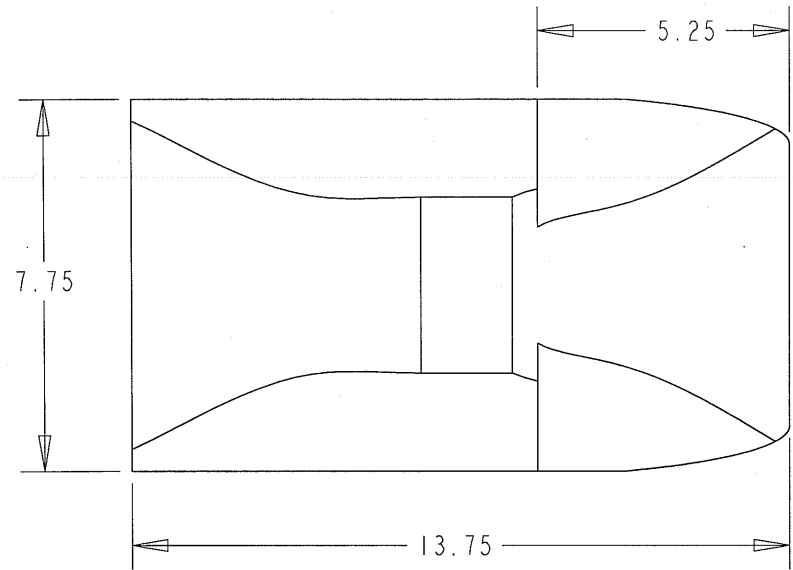
CONSTRUCTION SUPERVISOR  
J. DILL

SIZE SCALE  
B 0.125

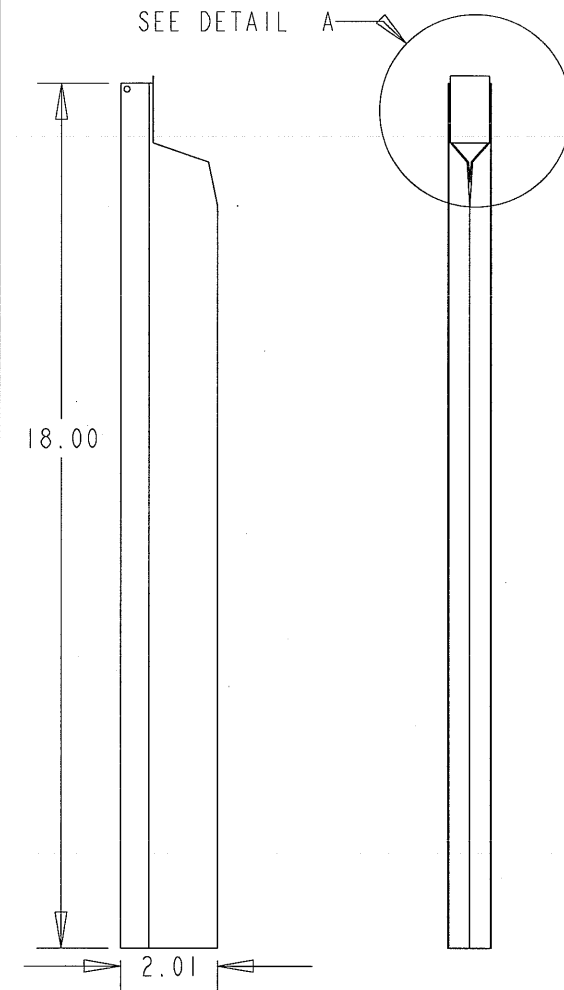
SHEET  
3 OF 5



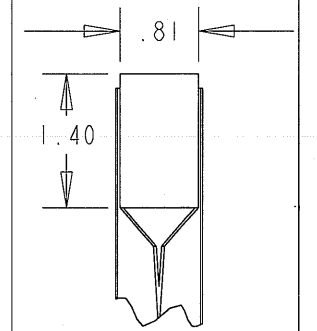
 <p><b>OKLAHOMA STATE BLACK TEAM 2004</b></p>		<p>COMPONENT LOCATIONS</p> <p style="font-size: small;">DIMENSIONS ARE IN INCHES</p>	
		<p style="font-size: x-small;">CHIEF ENGINEER</p> <p>A. SATTRE</p>	<p style="font-size: x-small;">FACULTY ADVISOR</p> <p>DR. A. ARENA</p>
<p style="font-size: x-small;">DRAWN BY</p> <p>K. TURNER</p>	<p style="font-size: x-small;">CONSTRUCTION SUPERVISOR</p> <p>J. DILL</p>	<p style="font-size: x-small;">SIZE</p> <p>B</p>	<p style="font-size: x-small;">SCALE</p> <p>0.125</p>
<p style="font-size: x-small;">OKLAHOMA STATE UNIVERSITY SCHOOL OF MECHANICAL AND AEROSPACE ENGINEERING STILLWATER, OKLAHOMA</p>		<p style="font-size: x-small;">SHEET</p> <p>4 OF 5</p>	



BOOM DETAILS



DETAIL A  
PINCH PLATE

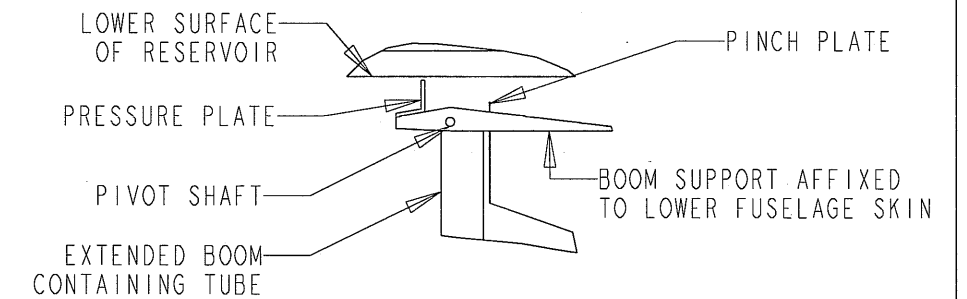


SCALE: 0.500  
AERODYNAMIC  
PROFILE



SCALE: 0.500

DETAIL B  
VALVE MECHANISM



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PAYLOAD DETAILS

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CHIEF ENGINEER A. SATTRE	FACULTY ADVISOR DR. A. ARENA
DRAWN BY K. TURNER	CONSTRUCTION SUPERVISOR J. DILL

SIZE B	SCALE 0.250	SHEET 5 OF 5
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