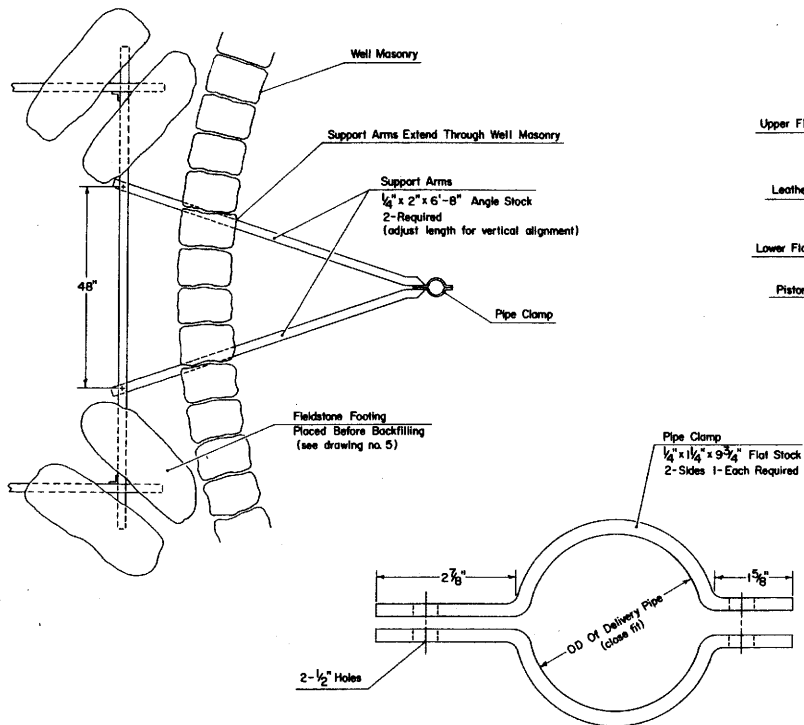
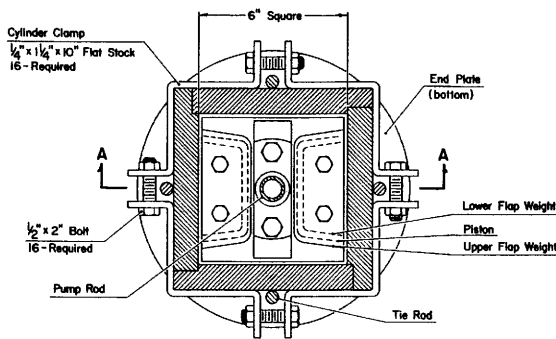


Delivery Pipe Upper Support Arms & Clamp

Scale: Arms - 1 inch = 1 foot / Clamp - Full Size

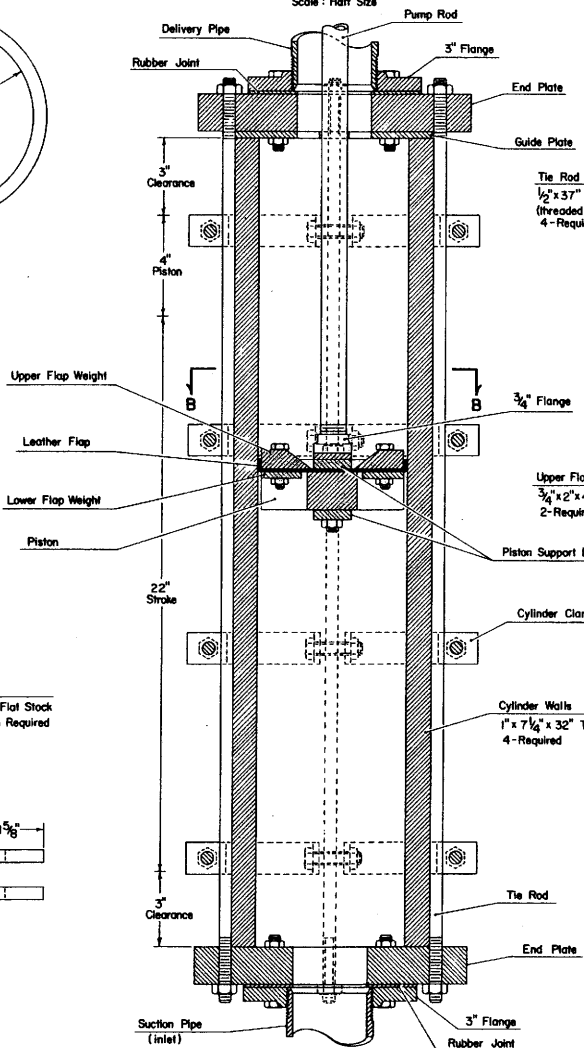


Delivery Pipe Lower Support Arms & Clamp

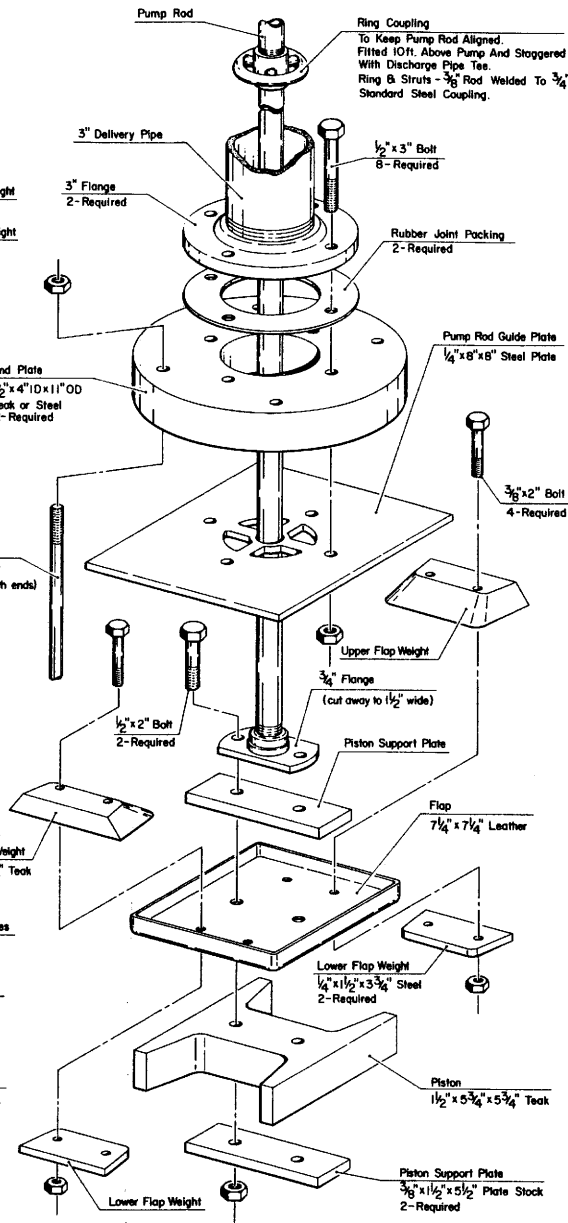


Section View B-B Cylinder & Piston

Scale: Half Size



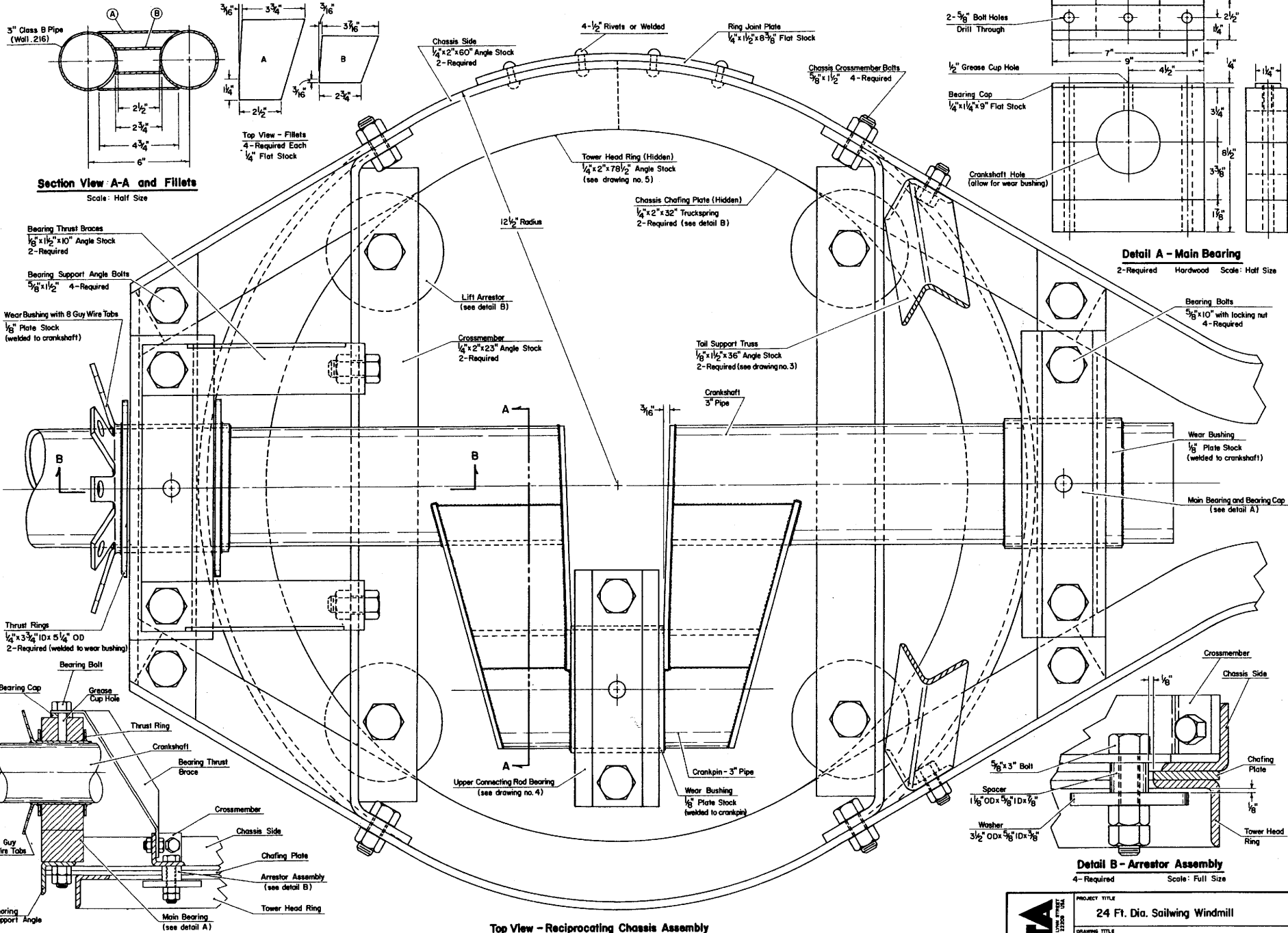
Section View A-A Cylinder & Piston



Exploded View - Piston Assembly

Do Not Scale

	PROJECT TITLE	24 Ft. Dia. Salthing Windmill		
	DRAWING TITLE	Upper & Lower Delivery Pipe Support Arms & Clamps And Teakwood Piston Pump		
	DESIGNED BY	DRAWN BY	APPROVED BY	SCALE
	W.Smith	W.General		
DRAWING NUMBER				



Section View A-A and Fillets

Scale: Half Size

Detail A - Main Bearing

2-Required Hardwood Scale: Half Size

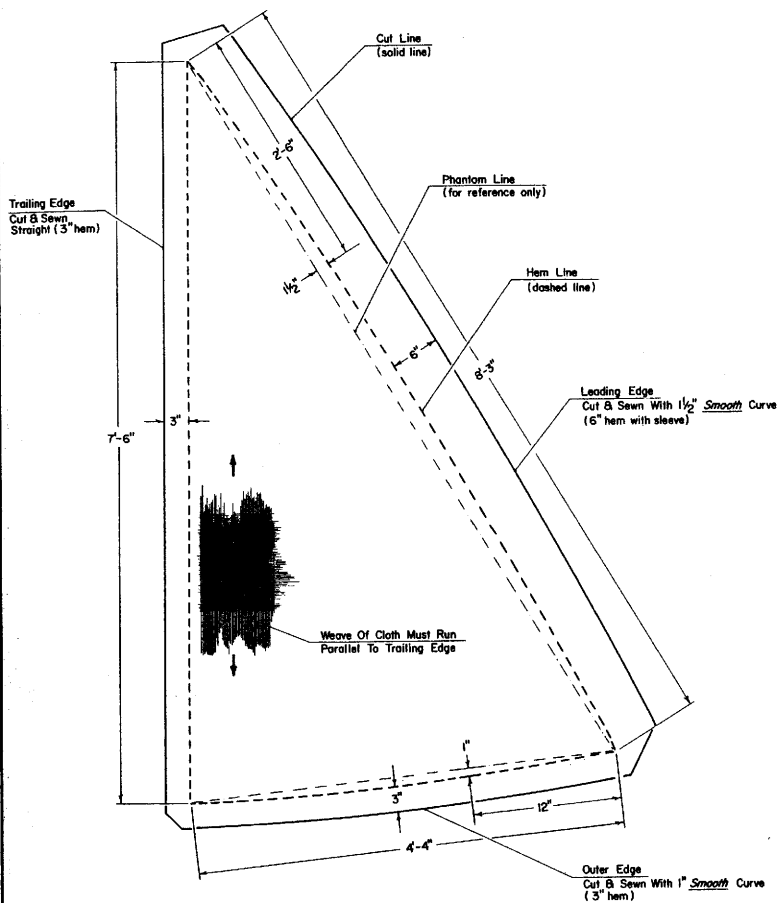
Detail B - Arrester Assembly

4-Required Scale: Full Size

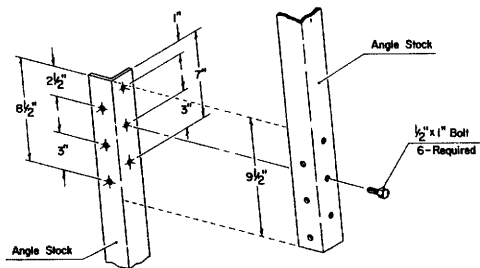
Top View - Reciprocating Chassis Assembly

Section View B-B

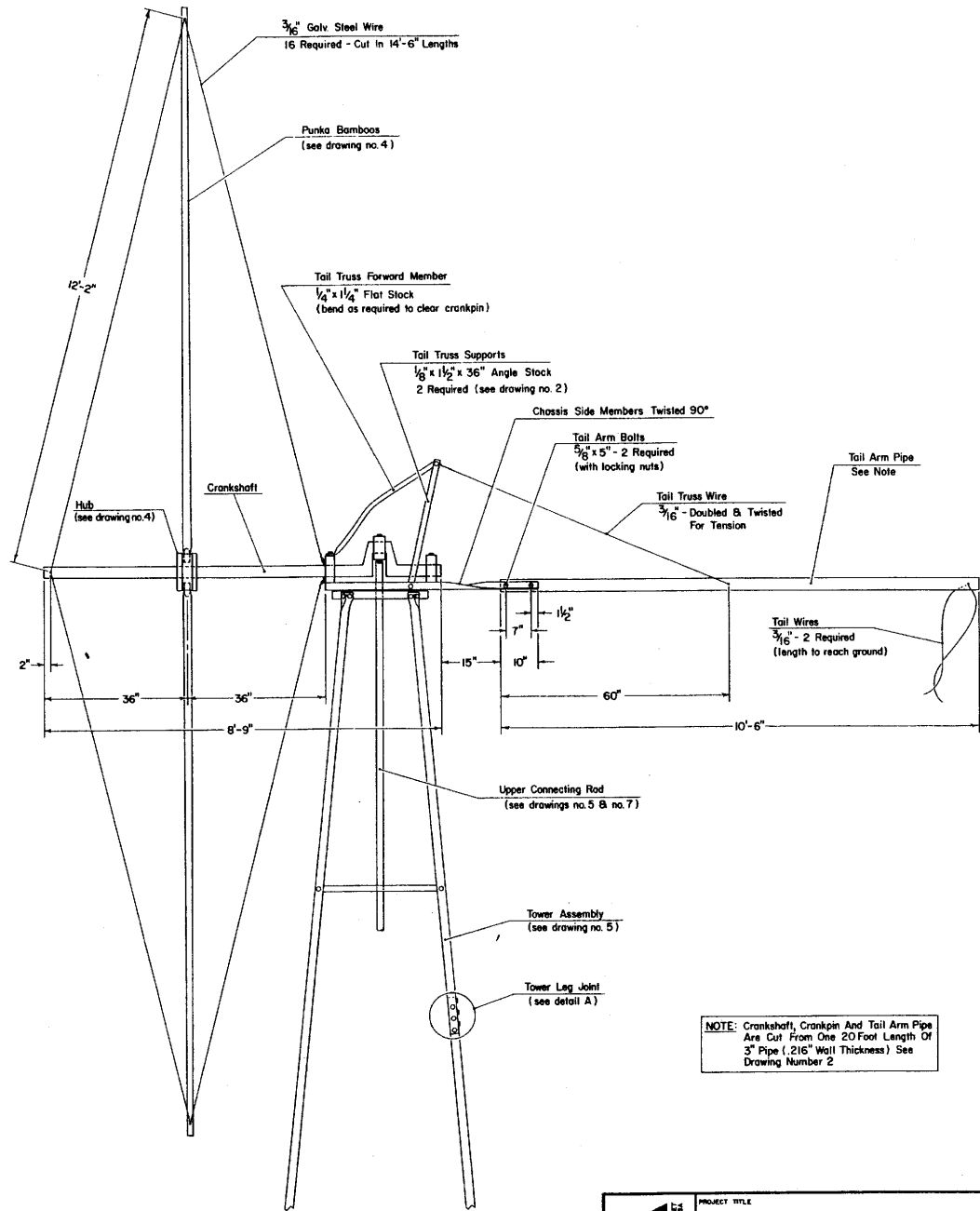
	PROJECT TITLE	24 Ft. Dia. Sailing Windmill		
	DRAWING TITLE	Reciprocating Chassis Assembly With Crank, Lift Arrester & Main Bearing		
	DESIGNED BY	DRAWN BY	APPROVED BY	SCALE
	W. Smith	W. Genzel		
				DRAWING NUMBER
				2



Sail Cutting Pattern
 8 Required Scale: 2 inches = 1 foot



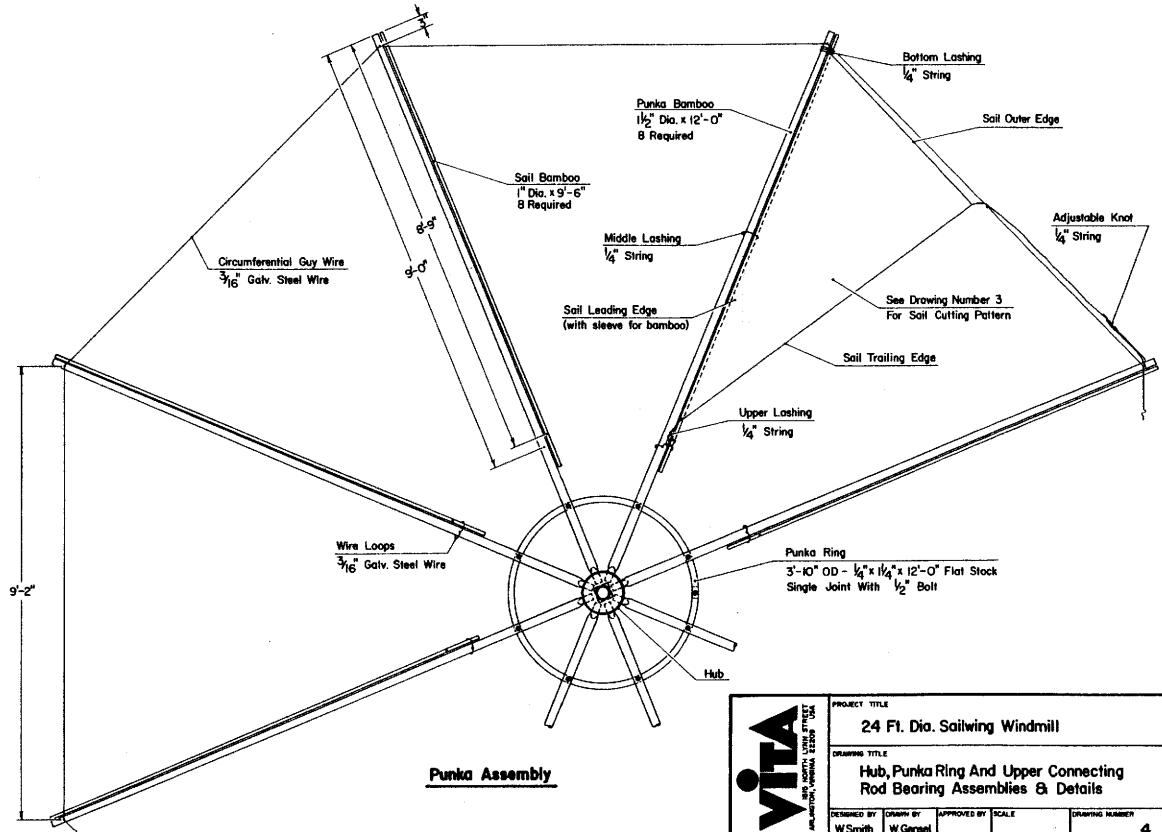
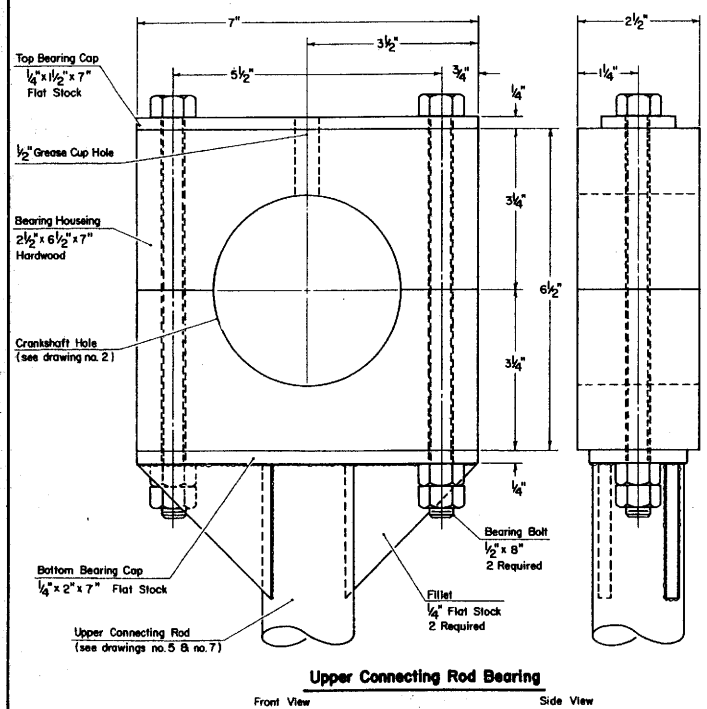
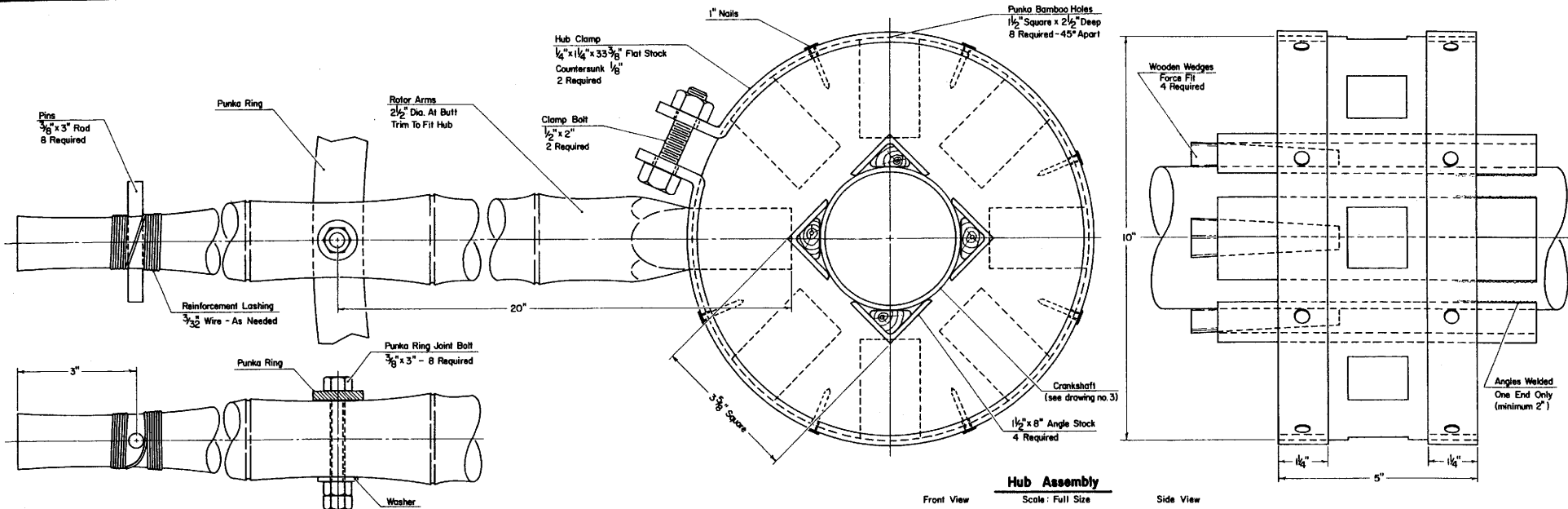
Detail A - Tower Leg Joint
 As Required



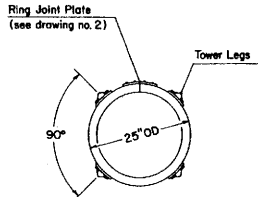
Side View - Punka And Tail Arm Assembly

NOTE: Crankshaft, Crankpin And Tail Arm Pipe Are Cut From One 20 Foot Length Of 3" Pipe (.216" Wall Thickness) See Drawing Number 2

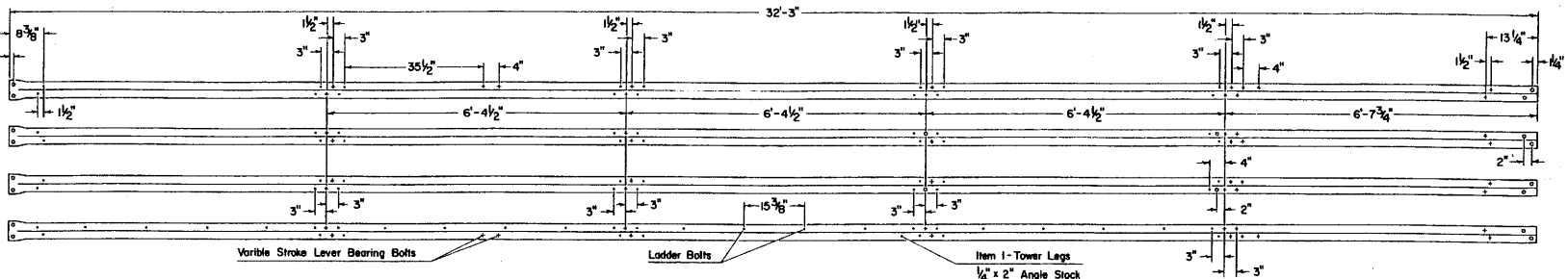
	PROJECT TITLE				24 Ft. Dia. Sailing Windmill	
	DRAWING TITLE				Punka And Tail Arm Assembly & Sail Cutting Pattern	
	DESIGNED BY	DRAWN BY	APPROVED BY	SCALE	DRAWING NUMBER	
W.Smith	W.Gensel			3		



	PROJECT TITLE			
	24 Ft. Dia. Sailing Windmill			
	DRAWING TITLE			
	Hub, Punka Ring And Upper Connecting Rod Bearing Assemblies & Details			
DESIGNED BY	GRAPH BY	APPROVED BY	SCALE	DRAWING NUMBER
W.Smith	W.Gensel			4

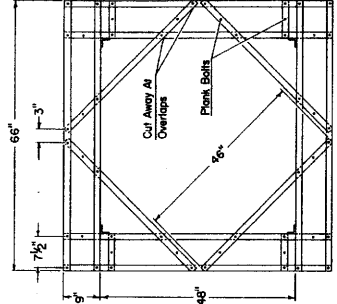


Detail A - Tower Head Ring

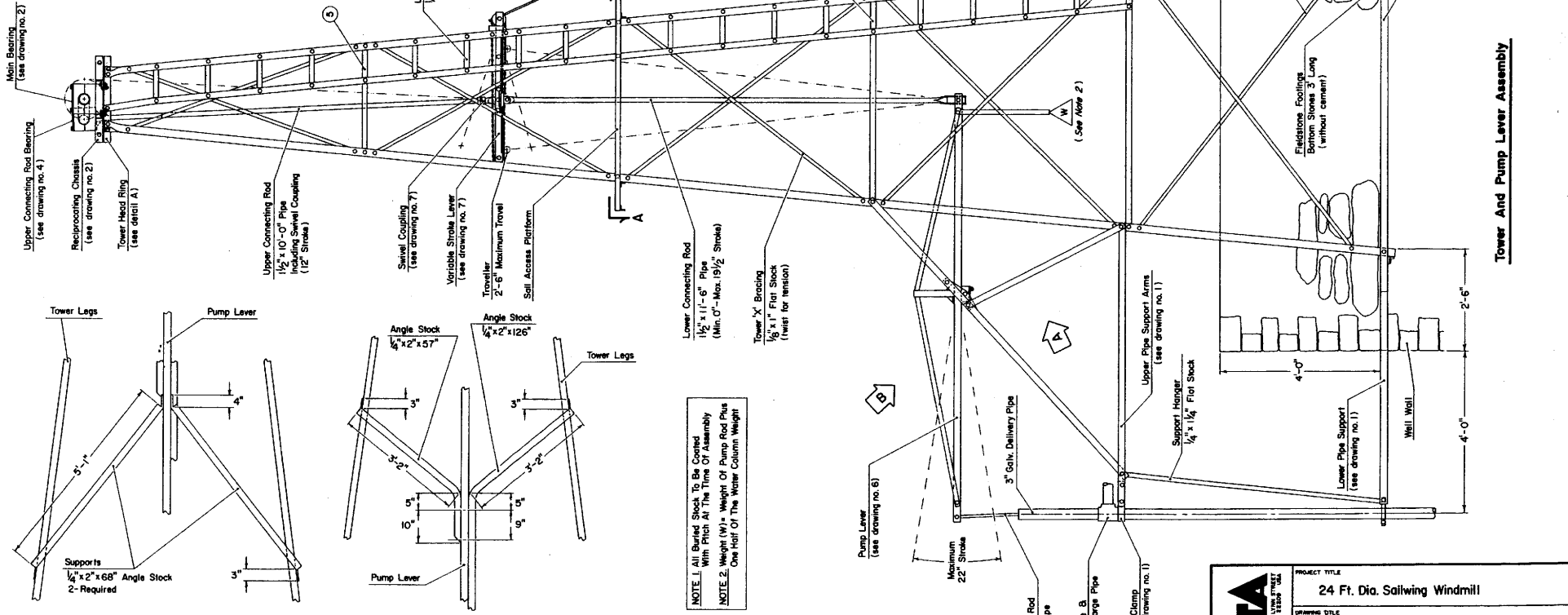
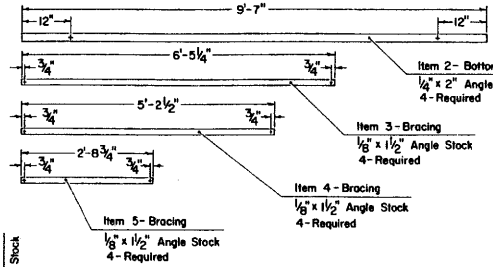


Tower Legs & Bracing Bolt Hole Patterns

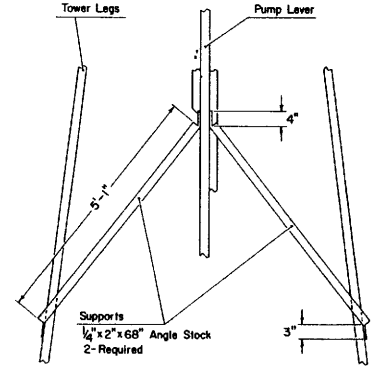
Bolt Hole Pattern Key		
Symbol	Hole Size	From Angle Edge
o	5/8"	1"
+	1/2"	7/8"
-	3/8"	7/8"



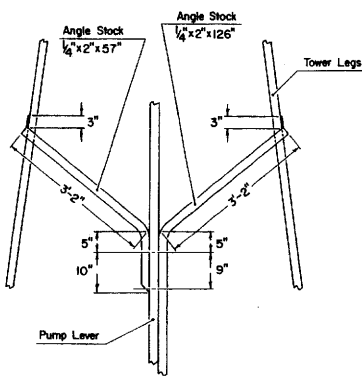
Section View A-A Platform
Constructed Of 1/2" x 1/2" Angle Stock And 3/8" Bolts With 2-68 & 2-48" Wood Planks



Tower And Pump Lever Assembly



View A - Lever Lower Supports



View B - Lever Upper Supports

NOTE 1 All Bolted Stock To Be Coated With Pitch At The Time Of Assembly
NOTE 2 Weight (W) = Weight Of Pump Rod Plus One Half Of The Water Column Weight

PROJECT TITLE
24 Ft. Dia. Sailing Windmill

DRAWING TITLE
Tower And Pump Lever Assembly With Bolt Holes

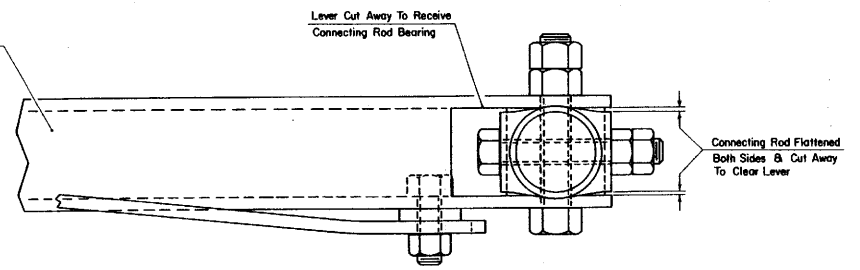
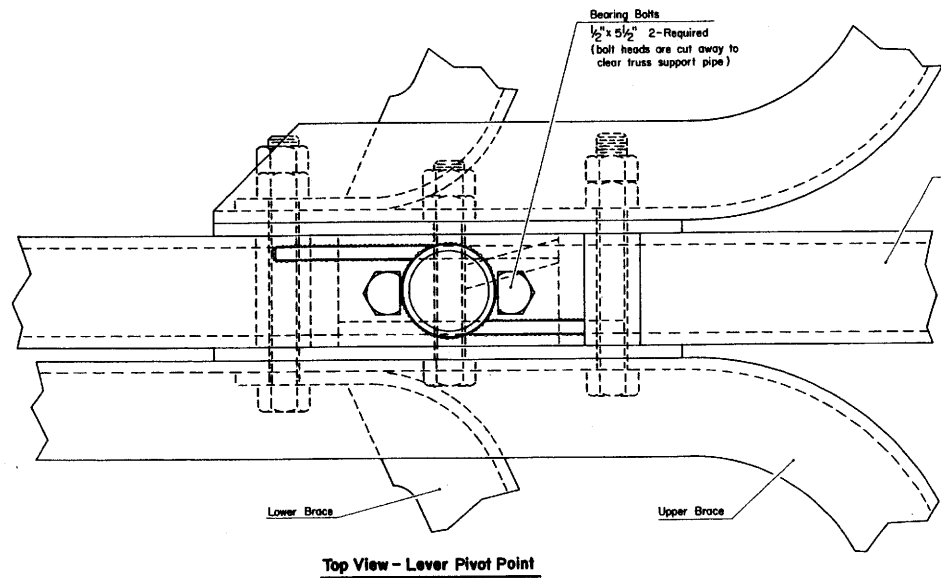
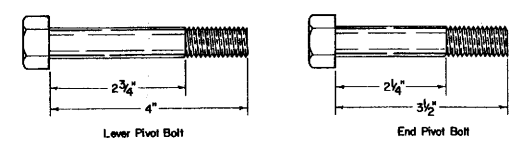
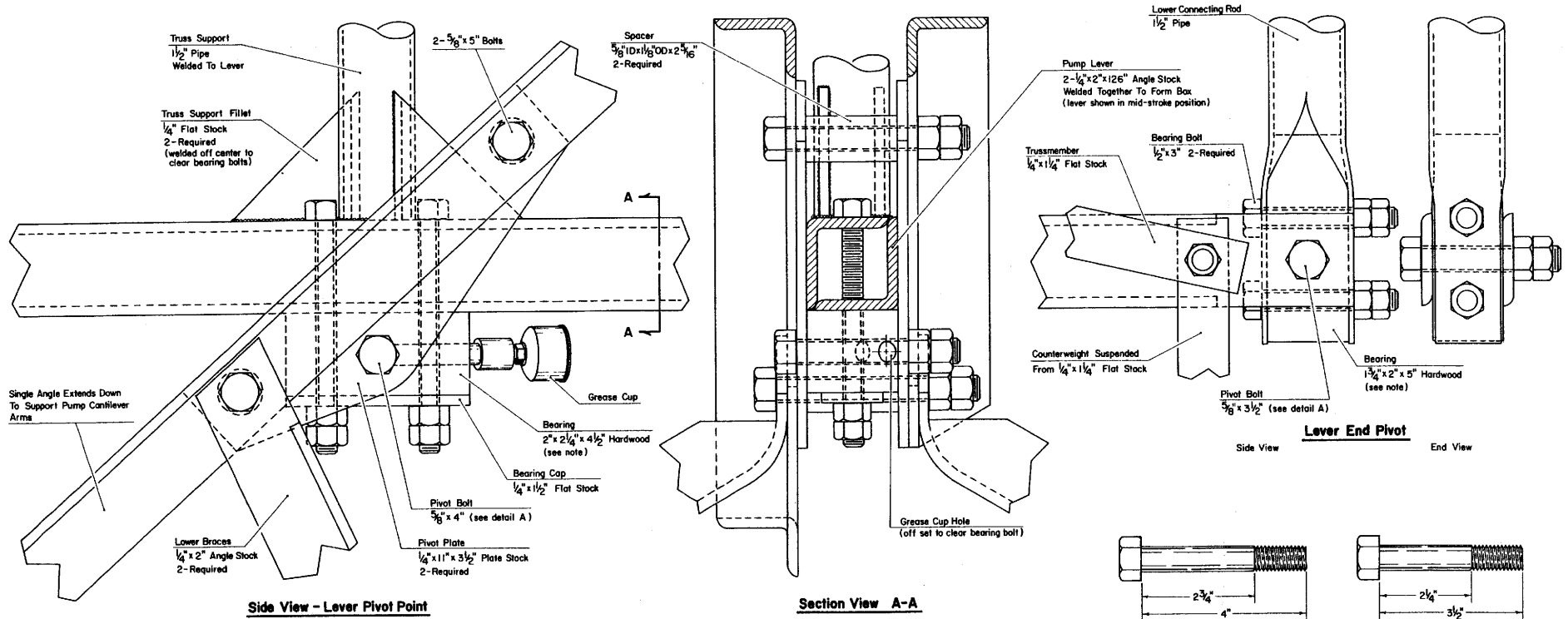
DESIGNED BY
W. Smith

DRAWN BY
W. Gensel

APPROVED BY

SCALE
1 inch = 1 foot

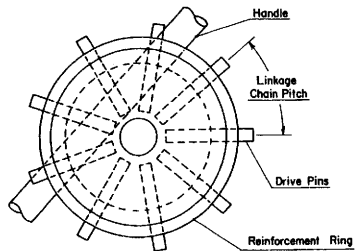
DRAWING NUMBER
5



NOTE: Replace Bearings Whenever Play Exceeds 1/2"

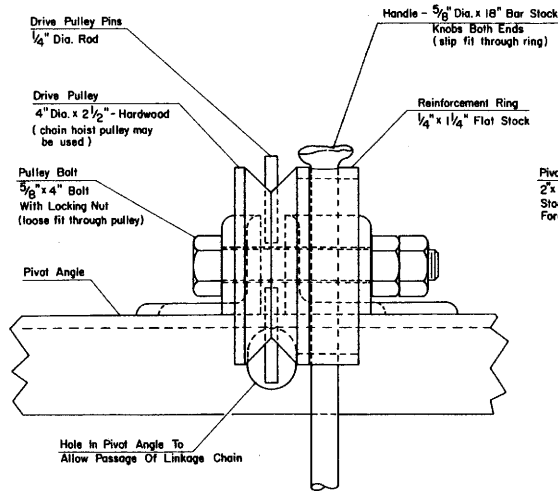
Top View - Lever End Pivot
Optional Grease Cup Omitted

	PROJECT TITLE				
	24 Ft. Dia. Sailing Windmill				
	DRAWING TITLE				
	Pump Lever Pivot Point Assembly With Lower Connecting Rod Pivot Point Assembly				
DESIGNED BY	DRAWN BY	APPROVED BY	SCALE	DRAWING NUMBER	
W.Smith	W.Gersel			6	



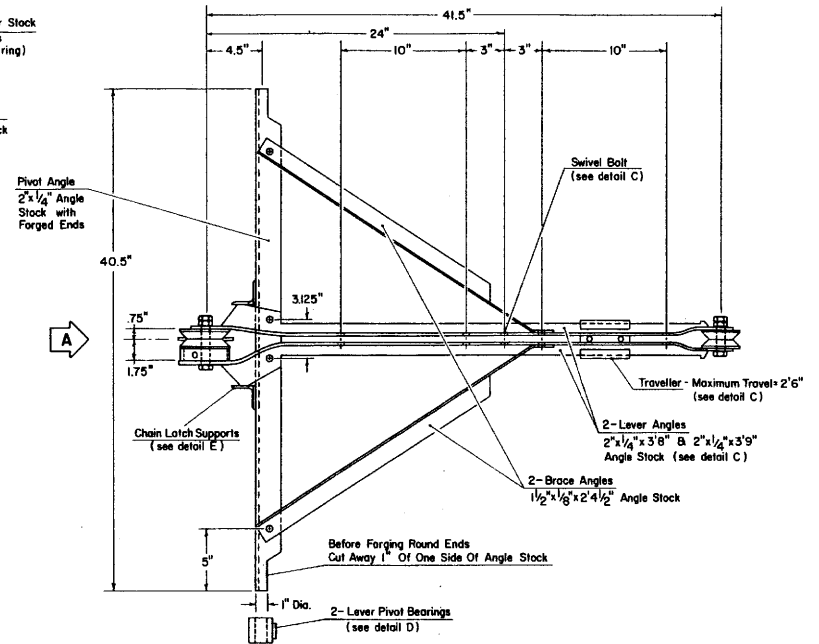
Detail A - Linkage Drive Pulley

Side View Scale: Full Size



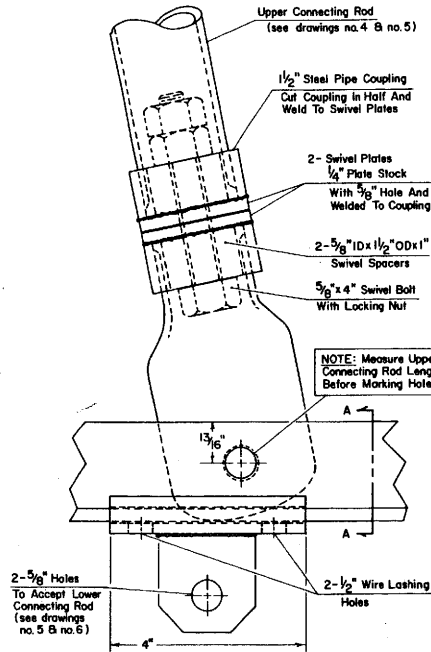
Detail B - From View 'A' - Drive Pulley

Linkage Chain & Chain Latch Omitted Scale: Full Size



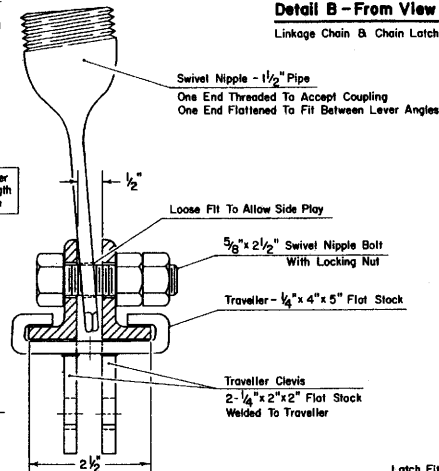
Top View - Assembly

Linkage Chain & Chain Latch Omitted Scale: 3 inches = 1 foot

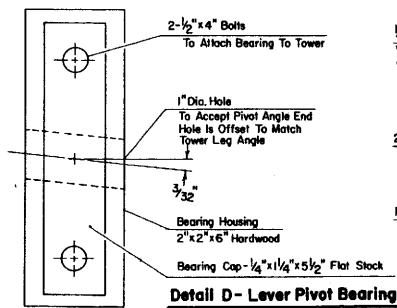


Detail C - Traveller and Swivel

Side View Scale: Full Size

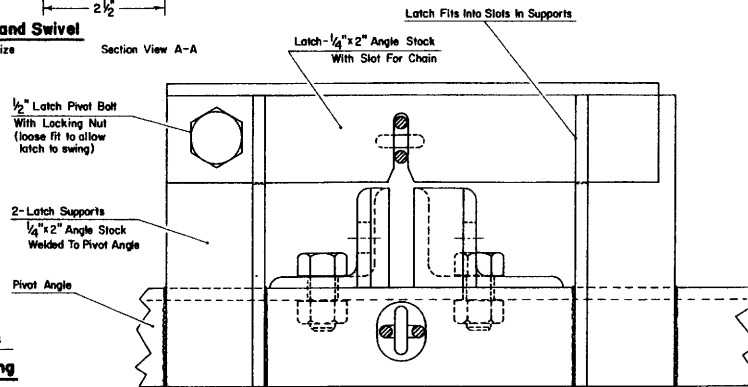


Section View A-A



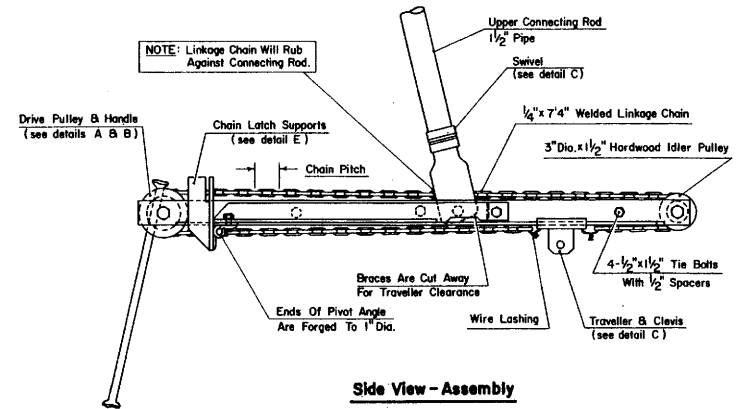
Detail D - Lever Pivot Bearing

2 Required Scale: Full Size



Detail E - From View 'A' - Linkage Chain Latch

Drive Pulley Omitted



Side View - Assembly

Chain Latch Omitted Scale: 3 inches = 1 foot



PROJECT TITLE
24 Ft. Dia. Sailing Windmill

DRAWING TITLE
Variable Stroke Lever Assemblies & Details

DESIGNED BY: W. Smith DRAWN BY: W. Gensel APPROVED BY: SCALE: DRAWING NUMBER: 7