

**Downeast Thunder Farm & Railroad**  
**Brush Tine Attachment for Loader Bucket**  
**Complete Plans Package**  
**©2013 Paul J. Bennett (All Rights Reserved)**

This package contains 9 drawings for my Brush Tine Attachment design. I'm making it available for free download in PDF format to anyone interested, however these plans and accompanying information are my intellectual property, are under copyright protection, and remain so. This plans package does not belong to the public domain. You may download this plans package free of charge for your own personal use, and you may share these plans with others for their personal use. These plans may not be copied or duplicated and/or posted on other web sites or appear in any other media without my written permission. These plans may not be sold under any conditions.

My purpose and intentions of releasing these plans are for entertainment and educational use only. It is not my intent that you should actually build from these plans. If you decide to do so, you must do so under the mutual agreement that you assume all liability for any loss or injuries that may result. It is also recommended you have these plans reviewed by a competent and licensed professional engineer at your own expense and have him or her affix their Professional Engineer's stamp to the drawings with their signature before attempting construction. If you do not agree with these terms, you must not attempt to build this design under any circumstances. You must delete this file from your computer immediately, and destroy any drawings you may have printed.

These drawings do not follow conventional engineering and drafting practice. This is because the drawings were placed on small (standard sized) 8-1/2" x 11" sheets such that the average person can easily download the files in pdf format and print the drawings on a standard home printer. With such small sheets, it is difficult to include all of the detail one might find in a professional drawing. Most drawings for equipment such as this design are dimensioned in "engineer's units." Such units are graduated in tenths, hundreds, thousands, etc.. An example might be 1.250" rather than 1-1/4." The drawings in this design use "architectural units" (inches & fractions) for dimensions. This is because the precision that can be achieved with engineer's units are not needed, but mostly because most people that might attempt to

construct such a project in a home shop will be using a standard tape measure (which is graduated in architectural units down to 1/32"), and that is more than enough precision for this project. Most people are accustomed to using architectural units and standard tape measures are commonly available just about anywhere.

Another matter of importance: I designed this Brush Tine Attachment to fit my New Holland #7308 Loader Bucket which is powered by my New Holland #1725 Diesel 4WD Agricultural Tractor. As designed and dimensioned, this Brush Tine Attachment may not fit your loader or tractor. Your bucket may be narrower or wider. Your tractor may be more powerful or weaker. The thickness of your loader bucket bottom edge and panel may vary from mine. This means that if you like the way I designed this attachment for my tractor, you may have to re-dimension most of the components to fit yours.

One other convention I'd like to mention: I designed this attachment based on scrap materials I have laying around and that I don't have to buy. You may have to modify your design accordingly. The drawings contain all of the information needed to build this attachment, providing you know how to read drawings, measure & cut steel, and weld. This project is probably best welded with a "stick welder." Simply cut and build the basic assemblies such as the main frame and clamp assembly, then weld them together along with the other components such as the tines, tine supports and other small pieces. Remove welding slag when finished, wire brush and/or sandblast, then prime & paint. That's about all there is to it.

The Brush Tine Attachment will save hours of backbreaking, physical labor moving large brush piles around your property. In my opinion, it's well worth the few bucks in materials and a few hours of the time it takes to build one.

If you are inspired to build such an attachment for your own tractor after reviewing these plans, all we ask in return is that you send a couple of photos of your finished project for our scrap book.

Paul J. Bennett

Downeast Thunder Farm <http://www.downeastthunderfarm.com>

Downeast Thunder Railroad <http://www.downeastthunder.com>

Shoestring Shipyard <http://www.shoestringshipyard.com>

Drawn by Paul  
J. Bennett  
Milbridge, ME

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Loader Bucket Brush Tine Attachment

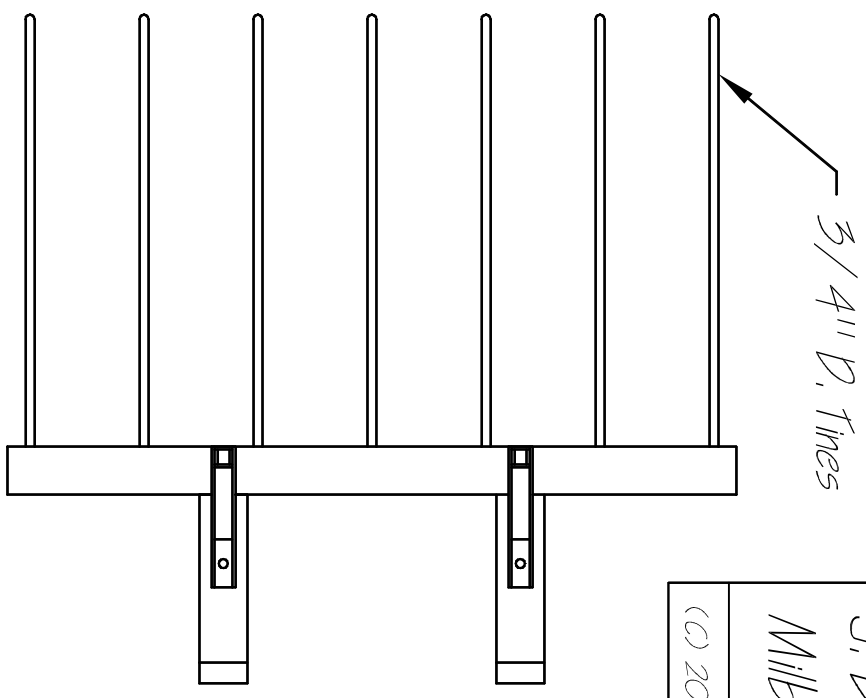
Downeast Thunder Farm & Railroad

SIZE	DWG NO.	REV
A	BTA001	

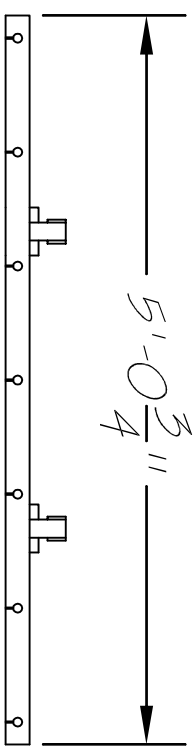
SCALE 3/4" = 1"

23 FEB 2013

SHEET 1 of 9



Light Duty Brush Tine Attachment For  
New Holland #7308 Loader Bucket,  
Alter Dimensions As Needed To Fit  
Other Size Loader Buckets.

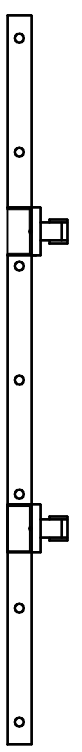


Front View

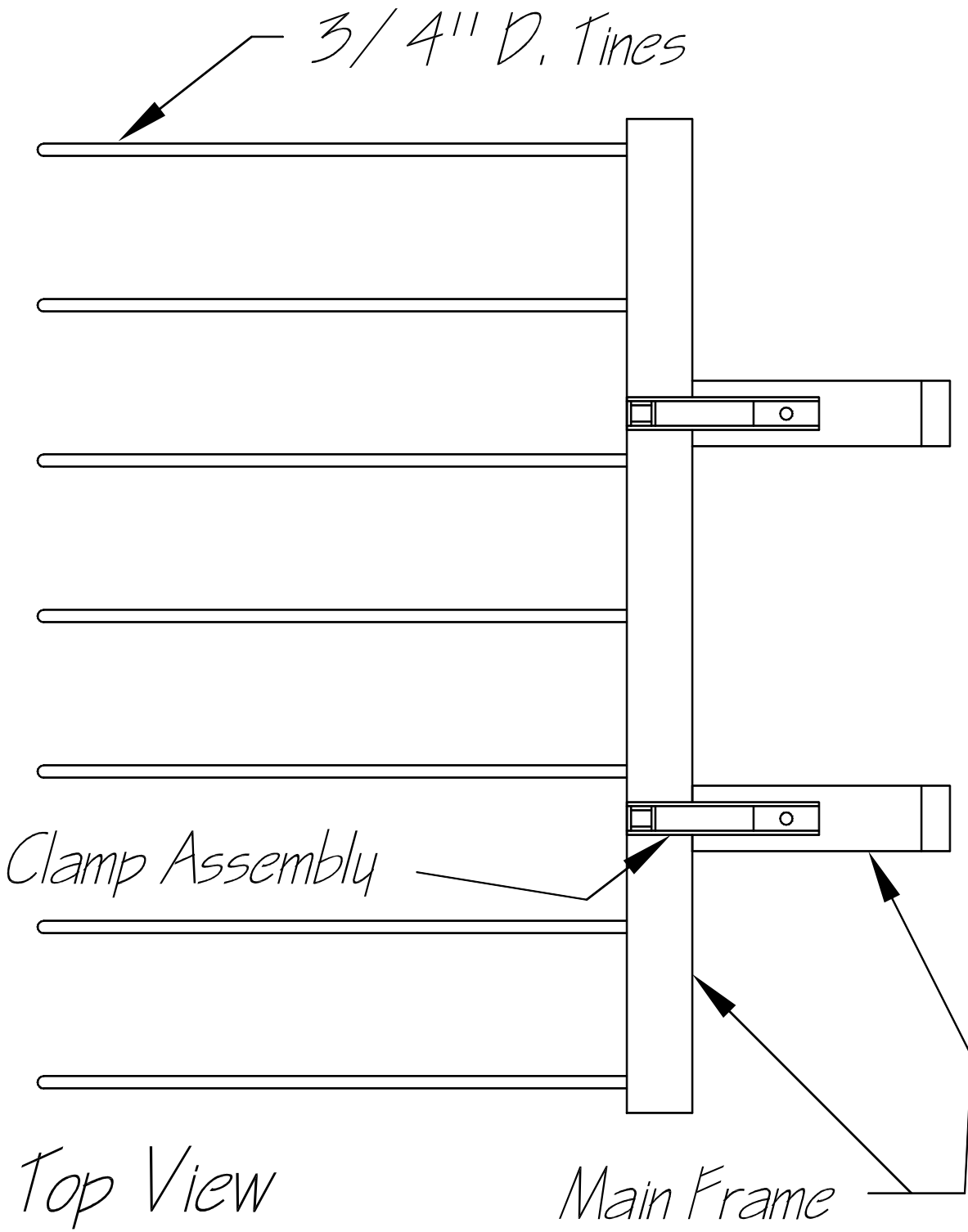


Top View

Left Side View



Rear View



Top View

Main Frame

Drawn by Paul J. Bennett Milbridge, ME	Loader Bucket Brush Tine Attachment		
	Downeast Thunder Farm & Railroad		
SIZE A	DWG NO. BTA002	REV	
(C) 2013, All Rights Reserved	SCALE 1-1/4" = 1"	24 FEB 2013	SHEET 2 of 9

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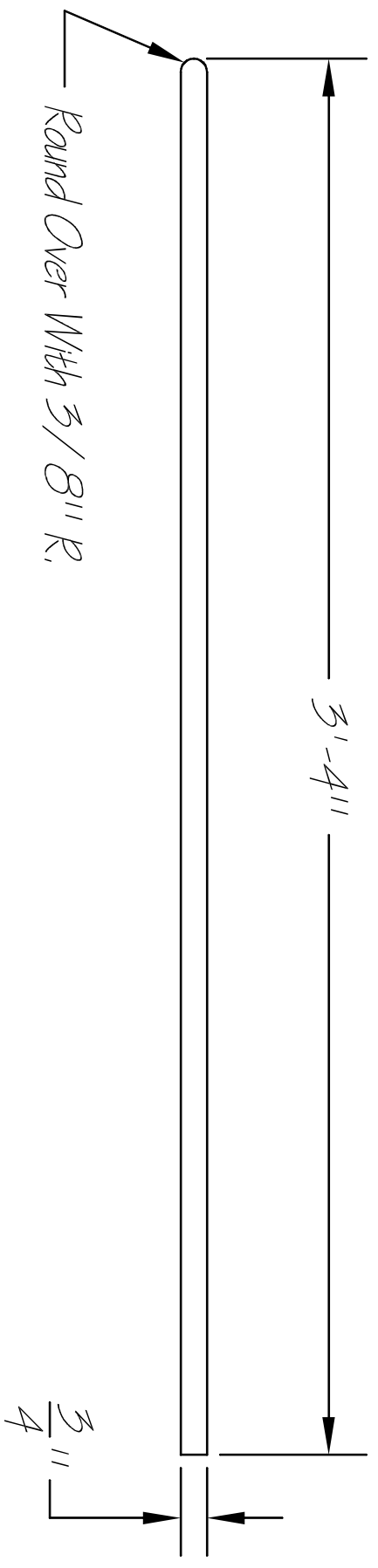
Loader Bucket Brush Tine Attachment

Downeast Thunder Farm & Railroad

SIZE	DWG NO.	REV
A	BTA003	

SCALE 2 1/2" = 1'	24 FEB 2013	SHEET 3 of 9
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# Brush Tines



Note: Fabricate Tines with 3/4" Hot Rolled Round Bar. (7) Required.

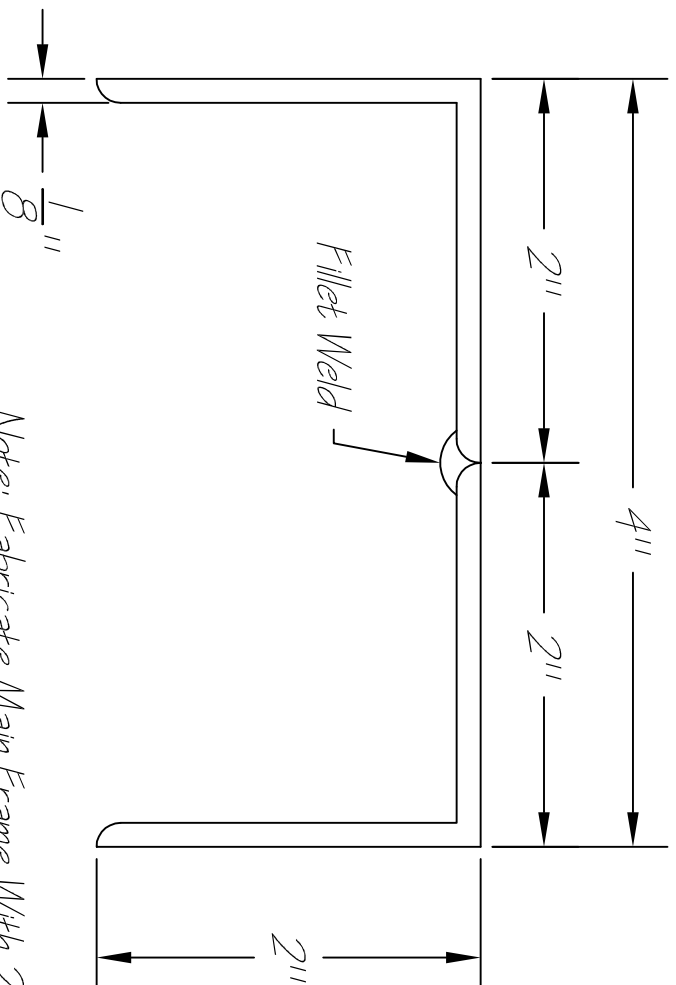
# Main Frame

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Loader Bucket Brush Tine Attachment

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SIZE	DWG NO.	SHEET	REV
A	BTA004	4 of 9	
24 FEB 2013			



Note: Fabricate Main Frame With 2" x 2" x 1/8" H.R. Angle  
2 Lengths of 5' 3" / 4" Required For Long Section Of Main Frame  
4 Lengths (2 Each) Of 15' 3" / 4" Required For Short Sections  
Of Main Frame. Weld Sections Of Angle As Shown To Form Channels.

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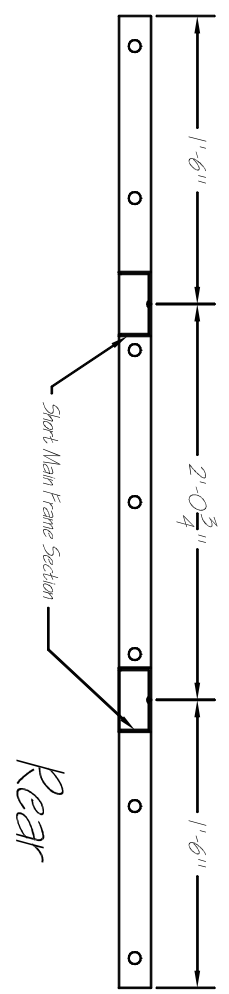
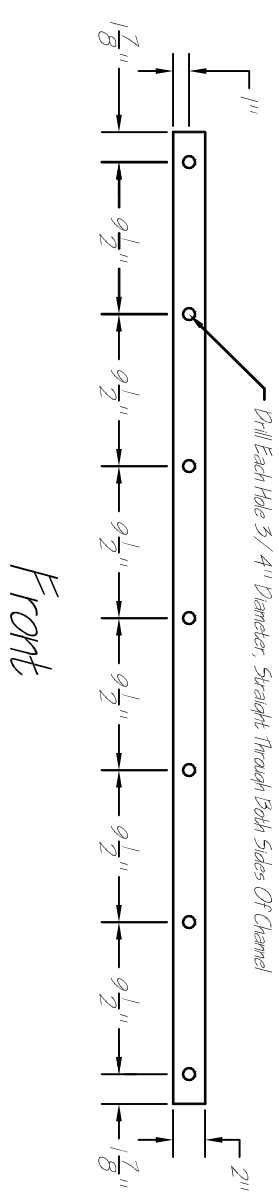
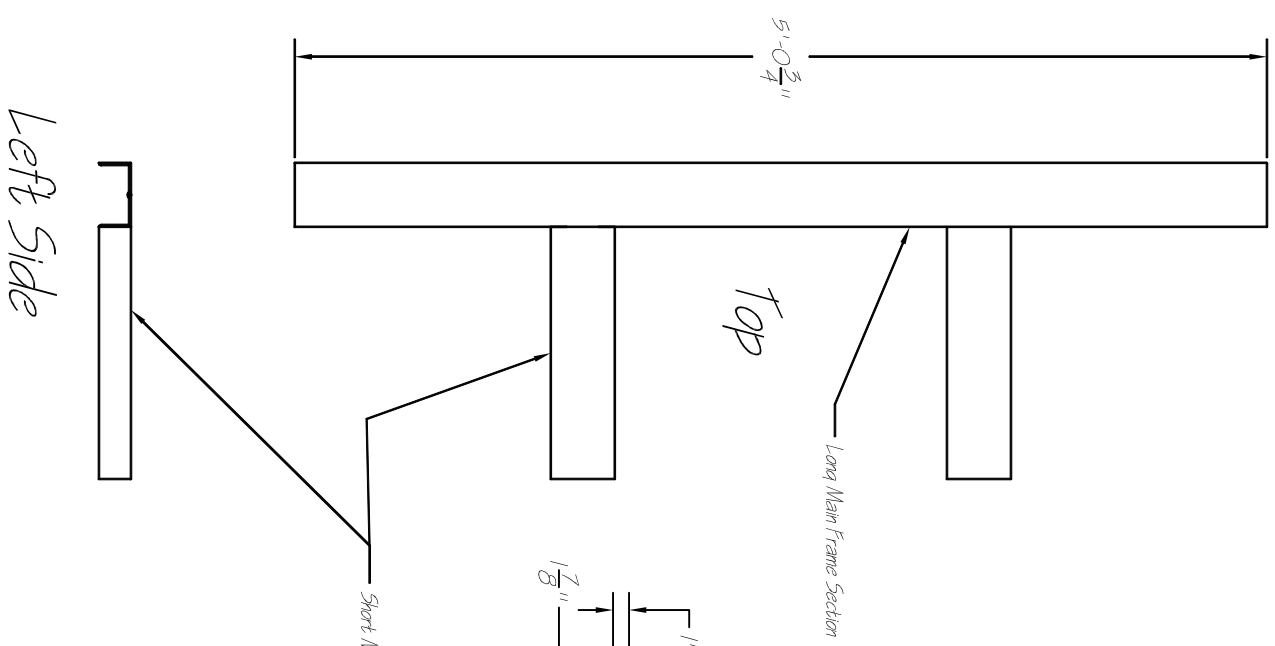
Loader Bucket Brush Tine Attachment

Downeast Thunder Farm & Railroad

SIZE	DWG NO.	REV
A	BTA005	

SCALE 1" = 1'	24 FEB 2013	SHEET 5 of 9
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# Main Frame



Note: Fabricate Clamp Assemblies  
With 1/4" HR Flat bar  
All Welded Construction

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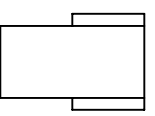
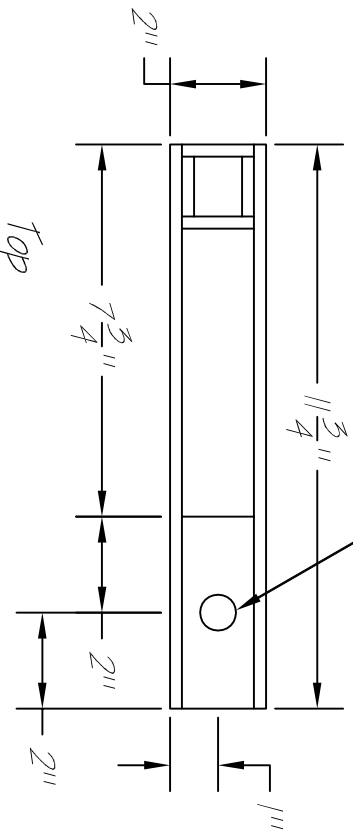
SIZE	DWG NO.	REV
A	BTA006	

SCALE 3" = 1'

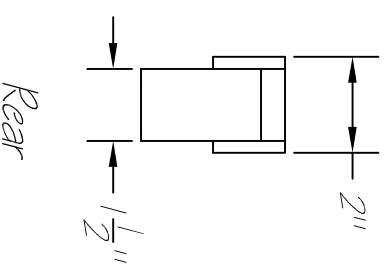
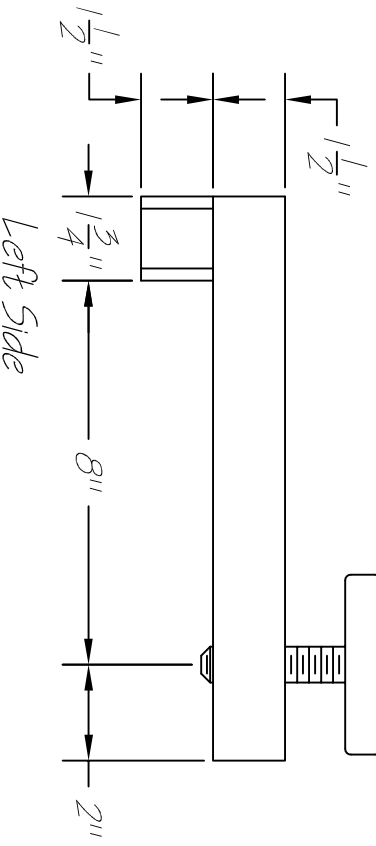
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SHEET 6 of 9

Drill 21/32" and Tap For 3/4"-10 UNC Thread



Front



Rear

Fab. T-Bar With 3/4" HR Round Bar & Cut 3/4" Threads

Clamp Assembly (2) Required



Time Supports

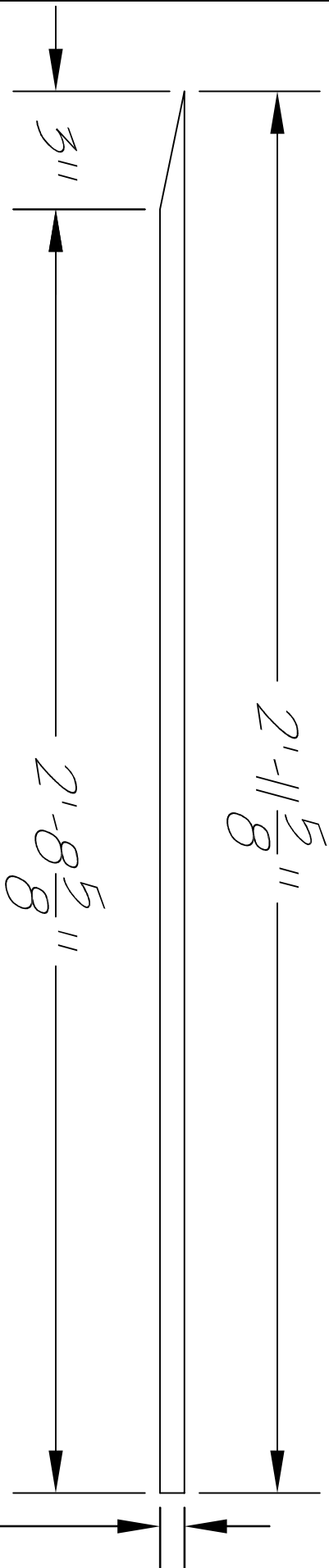
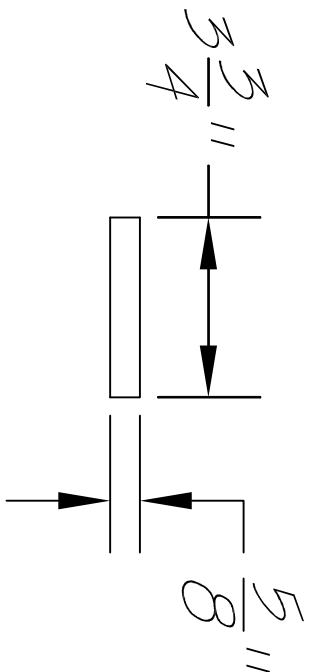
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Loader Bucket Brush Time Attachment

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SCALE 3" = 1'	25 FEB 2013	SHEET	7 of 9

Note: Fabricate from 5 / 8" x 1 / 8" H.R.  
Flat Bar. Short Support Located Under Time Inside  
Channel. Long Support Located Under Time In Front  
Of Main Frame Channel.



Basic Assembly  
Of Components

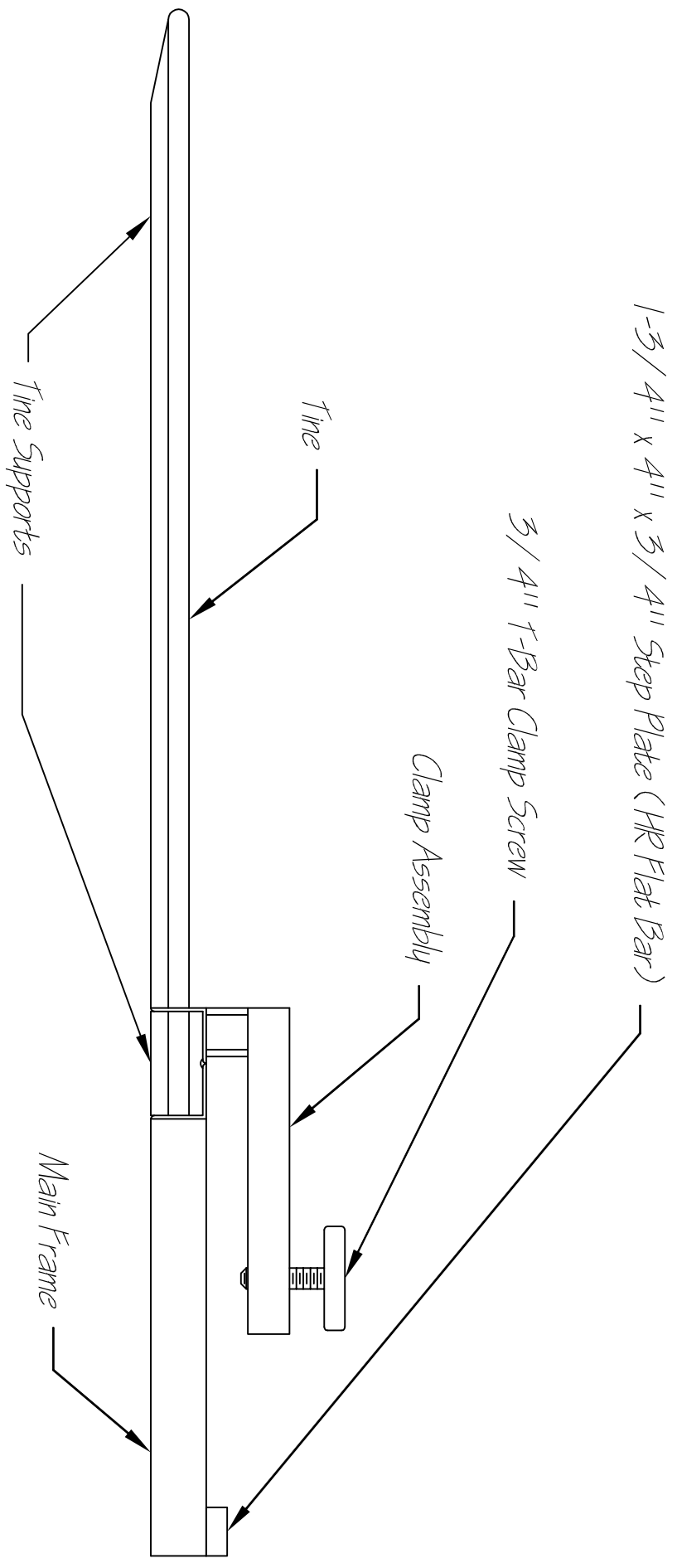
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Loader Bucket Brush Tine Attachment

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SIZE	DWG NO.	REV
A	BTA008	
SCALE Name	25 FEB 2013	SHEET 8 of 9



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Loader Bucket Brush Tine Attachment

Downeast Thunder Farm & Railroad

SIZE	DWG NO.	REV
A	BTA009	

SCALE	DATE	SHEET
Name	25 FEB 2013	9 of 9

# Brush Tine Attachment Mounted On Loader Bucket

